

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

English

(Core Generic Elective-15)

(Syllabus to be implemented from June, 2018 onwards.)

B.A. Part I Core Generic Elective (CGE-15)
(Additional English)
(Semester – I) (Paper –I)
An Introduction to Literature: Poetry
Detailed Syllabus (CBCS)
June 2018 onwards

Module - I

A : Definitions, Nature ,Origin and function of Poetry

B : Poetical Types: Lyric, Ode, Sonnet, Elegy, Ballad, Idyll

Module - II

1. One Day I Wrote Her Name – **Edmund Spenser**
2. Let Me Not to the Marriage of True Minds – **William Shakespeare**
3. On His Blindness – **John Milton**
4. Ozymandias – **P. B. Shelley**

Module - III

1. Daffodils – **William Wordsworth**
2. Stopping By Woods on a Snowy Evening – **Robert Frost**
3. Leisure – **W.H. Davis**
4. Grandma's Ways – **Anna McLean**

Module - IV

1. O Captain ! My Captain – **Walt Whitman**
2. Break, Break, Break – **A. L. Tennyson**
3. O What is that Sound – **W. H. Auden**
4. Ode on Solitude – **Alexander Pope**

B.A. Part I Core Generic Elective(CGE-15)
(Additional English)
(Semester – I) (Paper –I)
An Introduction to Literature: Poetry
Detailed Syllabus (CBCS)
June 2018 onwards

Pattern of Question Paper

Marks: 50

Que.1 : Rewrite the following sentences by choosing the correct alternatives (10)

10 items with 4 alternatives based on Module No. 2,3,4

Que.2: Answer any two of the following questions in about 250 to 300 words each: (20)

Three questions one each on Module No.2,3,4 out of which **two** to be attempted

Que3 A : Write short notes on the following in about 100 to 150 words each : (10)

Three items one each on Module No. 2,3,4 out of which **two** to be attempted

(Not covered in Question No. 2)

B : Write short notes on the following in about 100 to 150 words each : (10)

Three items on Module No.1 (i.e. Poetry as a form of literature) out of which

two to be attempted

B.A. Part I Core Generic Elective(CGE-16)
(Additional English)
(Semester – II) (Paper –II)
An Introduction to Literature: Short Story
Detailed Syllabus
(CBCS)
June 2018 onwards

Module - V

A : Definitions, Origin and Characteristics of Short Story

B : Elements of Short Story

Module - VI

1. A Day's Wait – **Ernest Hemingway**

2. A Grain as Big as a Hen's Egg - **Leo Tolstoy**

Module - VII

1. Wrong Man in Workers Paradise - **Rabindranath Tagore**

2. Carpet – **Jyotika Elhance**

Module - VIII

1. The Childless One – **Jai Nimkar**

2. The Only American from our Village – **Arun Joshi**

B.A. Part I Core Generic Elective (CGE-16)
(Additional English)
(Semester – II) (Paper –II)
An Introduction to Literature: Short Story
Detailed Syllabus
(CBCS)
June 2018 onwards

Pattern of Question Paper

Marks : 50

Que.1 : Rewrite the following sentences by choosing the correct alternatives (10)

10 items with 4 alternatives based on Module No. 6,7,8

Que.2: Answer any two of the following questions in about 250 to 300 words each: (20)

Three questions one each on Module No.6,7,8 out of which **two** to be attempted

Que3 A : Write short notes on the following in about 100 to 150 words each : (10)

Three items one each on Module No. 6,7,8 out of which **two** to be attempted

(Not covered in Question No. 2)

B : Write short notes on the following in about 100 to 150 words each : (10)

Three items on Module No.5 (i.e. Short Story as a form of literature) out of

which **two** to be attempted

SHIVAJI UNIVERSITY, KOLHAPUR.



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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

English

(Ability Enhancement Compulsory Course)

(Syllabus to be implemented from June, 2018 onwards.)

**B.A. Part I – Ability Enhancement Compulsory Course (AECC 1)
(Compulsory English) (CBCS)
English for Communication
Detailed Syllabus
June 2018 onwards**

Course Objectives:

- 1. To acquaint students with communication skills.**
- 2. To inculcate human values among the students through poems and prose.**
- 3. To improve the language competence of the students**

Semester –I AECC 1 (Paper-A)

Module I

- A) Developing Vocabulary
- B) On Saying Please** - A. G. Gardiner

Module II

- A) Narration
- B) In Passion's Shadow** - Mohan Rakesh

Module III

- A. English for General Purposes
- B. The Solitary Reaper** -William Wordsworth

Module IV

- A. **My School**, by Rabindranath Tagore
- B. **All the World is a Stage** - William Shakespeare
- C. **The Street** - Kusumagraj

Division of Teaching hours (Total 60 Periods)

1. Communication Skills: 3 X 12 = 36 periods
2. Reading Comprehension: 6X4 = 24 periods

Pattern of Question Paper

SEMESTER I (AECC 1) (Paper – A)
Total Marks: 50

Q.No	Sub. Q.	Type of Question	Based on Unit	Marks
Q.1	A	Four multiple choice questions with four alternatives to be set.	Prose and poetry units.	04
	B	Answer in one word/phrase/sentence each.	Prose and poetry units.	04
Q.2	A	Answer the following questions in three to four sentences each (4 out of 6)	Prose and poetry units	08
	B	Write short notes on the following in about seven to eight sentences each (3 out of 5)	Prose and poetry units	09
Q.3	---	Do as directed: (Based on Module I A Developing Vocabulary) Four different exercises to be set for 2 marks each.	Module I A	08
Q.4	A	Question to be set on English for General Purposes	Module III A	08
	B	Question to be set on Narration	Module IIA	09

B.A. Part I – Ability Enhancement Compulsory Course(AECC 2)**(Compulsory English) (CBCS)****English for Communication****Detailed Syllabus****June 2018 onwards****Semester –II****(AECC 2)****(Paper – B)****Module V**

- A. Making Inquiries
- B. **The Lost Child** - Mulk Raj Anand

Module VI

- A. Telephonic Communication
- B. **To My Countrymen** - APJ Abdul Kalam

Module VII

- A. Description
- B. **A Village Girl** - Mohan Singh

Module VIII

- A. **My Elder Brother** - Premchand
- B. **The Tiger**- William Blake
- C. **A Poet** -Chandrakant Patil

Division of Teaching hours (Total 60 Periods)

1. Communication Skills: 3 X 12 = 36 periods
2. Reading Comprehension: 6X4 = 24 periods

Pattern of Question Paper
SEMESTER II (AECC 2) (Paper – B)
Total Marks: 50

Q.No	Sub. Q.	Type of Question	Based on Unit	Marks
Q.1	A	Four multiple choice questions with four alternatives to be set.	Prose and poetry units.	04
	B	Answer in one word/phrase/sentence each.	Prose and poetry units.	04
Q.2	A	Answer the following questions in three to four sentences each (4 out of 6)	Prose and poetry units	08
	B	Write short notes on the following in about seven to eight sentences each (3 out of 5)	Prose and poetry units	09
Q.3	A	Question to be set on Making Inquiries	Module V A	8
	B	Question to be set on Telephonic Communication	Module VI A	7
Q.4	A	Question to be set on Description Describing objects or persons	Module VIIA	5
	B	Question to be set on Description Describing places or Daily Routine	Module VIIA	5

SHIVAJI UNIVERSITY, KOLHAPUR.



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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

English (Discipline Specific Core)

(Syllabus to be implemented from June, 2018 onwards.)

B.A. Part I (Discipline Specific Core) (DSC- A3)
(English Paper –I) (Semester – I)
Modern Indian Writing in English Translation
(CBCS)
Detailed Syllabus

Course Objectives:

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to short story as a form of literature with reference to the texts prescribed.
3. To develop literary competence among students.

Short Stories -

Unit 1. Short Story as a Minor Form of Literature: Characteristic Features

Unit 2. Short Story as a Minor Form of Literature: Types

Unit 3. A) Premchand ‘The Shroud’

B) Saratchandra Chatterji ‘Laloo’

Unit 4. A) Gurdial Singh ‘A Season of No Return’

B) Fakir Mohan Senapati ‘Rebati’

Division of Teaching: 4 X 15 Periods = 60 Periods

Short Stories Prescribed from:

Premchand ‘The Shroud’ in *Penguin Book of Classic Urdu Stories*, ed. M. Assaduddin (New Delhi: Penguin/Viking, 2006).

Saratchandra Chatterji ‘Laloo’, in *Indian Short Stories*, ed. Manmohan Saksena (Oxford University Press, Amen House, London E.C.4, 1951).

Gurdial Singh ‘A Season of No Return’, in *Earthy Tones* tr. Rana Nayar (Delhi Fiction House, 2002).

Fakir Mohan Senapati ‘Rebati’, in *Oriya Stories*, ed. Vidya Das, tr. Kishori Charan Das (Delhi: Shrishti Publishers, 2000).

References:

Venugopal, C. V. *The Indian Short Story in English: A Survey*. Bareilly: Prakash Book Depot. 1976.

Prasad, B. A. *A Background to the Study of English Literature*. Madras: MacMillan India, 1965.

Mehta, Kamal. *The Twentieth Century Indian Short Story in English*. New Delhi: Creative Books, 1997.

Hunter, Adrian. *The Cambridge Introduction to the Short Story in English*. New Delhi: Cambridge University Press, 2007.

Shaw, Valerie. *The Short Story: A Critical Introduction*, New York: Longman Group Limited. 1983.

Warren, Robert Penn, Erskine, Albert. (Ed.). *Short Story Masterpieces*, New York: Dell Publishing Co., 1954.

Pattern of Question Paper

Semester I (DSC- A3) (English Paper –I)		Total Marks – 50
Q. 1. Multiple choice questions with four alternatives. (To be set on Unit 3 &4)	(10)	
Q.2. A) Answer the following questions in about 250-300 words. (A or B on Unit 1 & 2)	(10)	
Q.3. Answer the following questions in about 250-300 words. (A or B on Unit 3 or 4)	(10)	
Q.4. Write short notes in about 100-150 words each. (4 out of 6) (3 short notes on Unit 1 , 2 and 3 on Unit 3 , 4 to be set)	(20)	

B.A. Part I (Discipline Specific Core) (DSC –A15)
(English Paper –II) (Semester – II)
Modern Indian Writing in English Translation
(CBCS)

Detailed Syllabus

June 2018 onwards

Course Objectives:

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to poetry and play as forms of literature with reference to the texts prescribed.
3. To develop literary competence among students.

Poems –

Unit 1.

Rabindra Nath Tagore:

- i) Light, Oh Where is the Light?
- ii) When My Play Was With Thee

Amrita Pritam:

- i) I Say Unto Waris Shah

Unit 2. G. M. Muktibodh:

- i) The Void
- ii) So Very Far

Play -

Unit 3. Satish Alekar– *The Dread Departure (Mahanirvan)*.

Unit 4. Satish Alekar– *The Dread Departure (Mahanirvan)*.

Division of Teaching : 4 X 15 Periods = 60 Periods

Poems / Play Prescribed from:

Rabindra Nath Tagore i) ‘Light, Oh Where is the Light?’ and ii) ‘When My Play Was With Thee’ in *Gitanjali: A New Translation with an Introduction* by William Radice, (New Delhi: Penguin India, 2011).

G. M. Muktibodh i) ‘The Void’, (tr. Vinay Dharwadker) and ii) ‘So Very Far’, (tr. Vishnu Khare and Adil Jussawala), in *The Oxford Anthology of Modern Indian Poetry*, ed. Vinay Dharwadker and A. K. Ramanujan (New Delhi: OUP, 2000).

Amrita Pritam ‘I Say Unto Waris Shah’, (tr. N. S. Tasneem) in *Modern Indian Literature: An Anthology, Plays and Prose Surveys and Poems*, ed. K. M. George, Vol. 3 (Delhi Sahitya Academy, 1992).

References:

Prasad, B. A. *A Background to the Study of English Literature*. Madras: MacMillan India, 1965.

Ramamurti K. S. (Editor). *Twenty Five Indian Poets in English* (Edited with Introduction and notes), Macmillan Publishers Pvt. India Ltd. New Delhi. 2012.

Mehrotra, Arvind Krishna (Editor). *The Oxford India Anthology of Twelve Modern Indian Poets*, Oxford University Press New Delhi. 2004.

Alekar, Satish. *The Dread Departure (Mahanirvan)*. Kolkata: Seagull Books. 2007.

Pattern of Question Paper**(DSC –A15)****(English Paper –II) (Semester – II)****Total Marks – 50**

- | | |
|--|------|
| Q. 1. Multiple choice questions with four alternatives.
(5 on Poems & 5 on <i>Mahanirvan</i> to be set) | (10) |
| Q.2. Answer the following questions in about 250-300 words.
(A or B on Unit 1 & 2) | (10) |
| Q.3. Answer the following questions in about 250-300 words.
(A or B on <i>Mahanirvan</i>) | (10) |
| Q.4. Write short notes in about 100-150 words each. (4 out of 6)
(3 on Poems & 3 on <i>Mahanirvan</i> to be set) | (20) |

B. A. Part II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR COMMUNICATION
(Compulsory English)
(June 2019 Onwards)

Course Objectives:

- To enable the students to develop communication skills in English, both oral and written.
- To equip the students with the language skills for use in their personal, academic and professional lives.
- To develop the students essential employability skills.
- To help the students to enter the job market with confidence and the ability to work effectively.
- To help the students to learn and practice both language and soft skills.
- To encourage the active involvement of the students in learning process.
- To enable the students to cultivate a broad, human and cultured outlook.

CONTENTS

Semester III

Module I

- A) Oral Skills
- B) A Real Good Smile – **Bill Naughton**
- C) Mending Wall – **Robert Frost**

Module II

- A) Conversation Skills
- B) The Highway – **Ray Bradbury**

Module III

- A) Developing Writing Skills
- B) Whitewashing the Fence – **Mark Twain**

Module IV

- A) Father Returning Home – **Dilip Chitre**
- B) There is a Garden in Her Face – **Thomas Campion**

Semester IV

Module V

- A) E-Communication
- B) Preparation for England – **M.K. Gandhi**

Module VI

- A) Information Transfer and Interpretation of Data
- B) The Selfish Giant – **Oscar Wilde**
- C) Auto Wreck – **Karl Shapiro**

Module VII

- A) English for Banking and Industries
- B) The Journey – **Mary Oliver**

Module VIII

- A) An Old Man's Wisdom – **Sudha Murty**
- B) My Soul has a Hat – **Mário de Andrade**

- **PATTERN OF QUESTION PAPER**

B.A. II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
ENGLISH FOR COMMUNICATION
(Compulsory English)
PATTERN OF QUESTION PAPER (June 2019 Onwards)

Semester III (Paper C)

Total Marks: 50

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	04
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	04
Q.2	A.	Answer the following questions in 3-4 sentences each. (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write Short Notes on the following in about 7-8 sentences each. (2 out of 3)	1 on Prose and 2 on Poetry	08
	C.	Two different Vocabulary Exercises to be set for 1 mark each	Prose and Poetry	02
Q.3	A.	Question to be set on ORAL SKILLS	Module I A	04
	B.	Question to be set on ORAL SKILLS	Module I A	05
Q.4	A.	Question to be set on CONVERSATION SKILLS	Module II A	04
	B.	Question to be set on CONVERSATION SKILLS	Module II A	04
Q.5	A.	Question to set on DEVELOPING WRITING SKILLS	Module III A	05
	B.	Question to set on DEVELOPING WRITING SKILLS	Module III A	04

Semester IV (Paper D)**Total Marks: 50**

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	04
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	04
Q.2	A.	Answer the following questions in 3-4 sentences each. (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write Short Notes on the following in about 7-8 sentences each. (2 out of 3)	1 on Prose and 2 on Poetry	08
	C.	Two different Vocabulary Exercises to be set for 1 mark each.	Prose and Poetry	02
Q.3	A.	Question to be set on E-COMMUNICATION	Module V A	05
	B.	Question to be set on E-COMMUNICATION	Module V A	04
Q.4	A.	Question to be set on INFORMATION TRANSFER AND INTERPRETATION OF DATA	Module VI A	04
	B.	Question to be set on INFORMATION TRANSFER AND INTERPRETATION OF DATA	Module VI A	04
Q.5	A.	Question to set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	05
	B.	Question to set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	04

B. A. PART II
LINGUISTICS (I.D.S)
(Paper I) (Semester III)
LANGUAGE AND LINGUISTICS (CBCS)

Detailed Syllabi (June 2019 Onwards)

Course Objectives:

- To acquaint the students with Language and Linguistics in general.
- To acquaint the students with Phonetics and Phonology.
- To acquaint the students with Morphology and Syntax.
- To acquaint the students with the concepts of Semantics and Pragmatics.

Module: I Introduction to Language

- I) Definitions
- II) Characteristics of Language
- III) Difference between Human and Animal Communication System

Module: II Introduction to Linguistics

- I) What is Linguistics?
- II) Linguistics as a Science
- III) Diachronic and Synchronic Linguistics
- IV) The Concepts of 'Signifier' and 'Signified'

Module: III Phonetics

I) Speech Mechanism:

- i) Organs of Speech: lips, teeth, tongue, palate (the roof of the mouth), uvula, and vocal-cords etc.
- ii) Description of English Consonants and Vowels with three-term labels
- iii) Active and Passive Articulators

II) Phonetics:

- i) Difference between Speech Sounds and Letters
- ii) What is Phonetics?
- iii) Branches of Phonetics: The Articulatory Phonetics, Acoustic Phonetics and Auditory Phonetics.
- iv) Phonetic Transcription of Simple Words

Module: IV Phonology

- I) Difference between Phonetics and Phonology
- II) Phonemes and Allophones
- III) Minimal Pairs,

Reference Books:

Gleason, H.A. *An Introduction to Descriptive Linguistics*. Amerind Publishing Co. (Chapter 1). 1961.

Langacker, R.W. *Language and its Structure*. New York: Harcourt Brace Jovanovich. Inc. 1973.

Hockett, C.F. *A Course in Modern Linguistics*. Oxford & IBH Publishing Company (chapter 64). 1958.

Robins, R.H. *General Linguistics: An Introductory Survey*. Longman. 1964.

Verma, S.K. and Krishnaswamy, N. *Modern Linguistics: An Introduction to Modern Linguistics*. Oxford University Press. 1989.

Velayudhan, S. & Mohanan, K.P. *An Introduction to the Phonetics and Structure of English*. Somaiya Publications Pvt. Ltd. New Delhi. 1977.

Bansal, R.K. & Harrison, J.B. *Spoken English for India*. Orient Longman. 1972.

Sethi, J. & Dhamija, P.V. *A Course in Phonetics and Spoken English*. Prentice Hall of India, New Delhi. 1989.

Balasubramanian, T. *A Textbook of English Phonetics for Indian Students*. Macmillan. 1981.

Hornby, A.S. *Oxford Advanced Learner's Dictionary of Current English*. 1974.

Varshney, R.L... *An Introductory Textbook of Linguistics and Phonetics*. Students store, Bareilly. 1986.

B. A. PART II LINGUISTICS (I.D.S) (Paper I) (Semester III) LANGUAGE AND LINGUISTICS (CBCS)

QUESTION PAPER PATTERN

June 2019 Onwards

Total Marks: 50

- | | |
|---|------|
| Q. 1. Five multiple choice questions with four alternatives to be set on all modules | [5] |
| Q. 2. Short notes in about 5 - 6 sentences each: (5 out of 7)
(On Module 1 & 2) | [15] |
| Q. 3. A) Short Answer type questions in about 4 - 5 sentences each: (5 out of 7)

(On Module 3 & 4) | [15] |
| B) Description of English phonemes/ speech sounds with three-term labels: | [5] |

- (5 out of 7)
- Q. 4. A) Conventional spellings of the transcribed words: (5 out of 7) [5]
B) Identification of the different phonemes from the minimal pairs given [5]
(5 out of 7)

B. A. PART II
LINGUISTICS (I.D.S)
(Paper II) (Semester IV)
LANGUAGE AND LINGUISTICS (CBCS)

Detailed Syllabi (June 2019 Onwards)

Module: I Morphology

- I) The Concept of Morpheme
- II) Types of Morpheme
- III) Allomorphs
- IV) Morphological Analysis
- V) Morphological Processes: Affixation, Conversion, Compounding, Reduplication, Blending, Clipping etc.

Module: II Syntax

- I) What is Syntax?
- II) Elements of Clause [SPOCA]
- III) Basic Clause Patterns
- IV) Simple Sentences and Complex Sentences
- V) Immediate Constituent Analysis [IC Analysis]

Module: III Semantics

- I) What is Semantics?
- II) Lexical Relations: Synonymy, Antonymy, Polysemy, Homonymy, Hyponymy and Collocation

Module: IV Pragmatics

- I) What is Pragmatics?
- II) Difference between Semantics and Pragmatics
- III) Deixis: Person, Place, Time, Discourse and Social
- IV) Adjacency Pairs
- V) Cooperative Principle (CP)

Reference Books:

Leech, G.N. *English Grammar for Today: An Introduction*. The Macmillan: London. 1984.

Hockett Charles, *A Course in Modern Linguistics*. Oxford & IBH Publishing Company, Bombay. 1970.

Palmer, F.R. *Semantics*. Cambridge University Press. 1981.

Leech, G.N. *Semantics*. Penguin Books, London. 1981.

Levinson S.C. *Pragmatics*. Cambridge: CUP. 1983.

Leech, G.N. *Principles of Pragmatics*. Longman Group Ltd, London. 1986.

Yule, George. *Pragmatics*. Oxford University Press. 2004.

Onions, C.T. & Miller B.D.H. *Modern English Syntax*. Rutledge, London. 1971.

Jupp, T.C. & Milne J.L. *English Sentence Structure*. The English Book Society and Heinemann Educational Books. 1968.

B. A. PART II LINGUISTICS (I.D.S)
(Paper II) (Semester IV)
LANGUAGE AND LINGUISTICS (CBCS)

QUESTION PAPER PATTERN
June 2019 Onwards

Total Marks: 50

- | | |
|--|------|
| Q. 1. Five multiple choice questions with four alternatives to be set on all modules | [5] |
| Q. 2. A) Short notes in about 5 - 6 sentences each: (5 out of 7) | [15] |
| (On Module I & II) | |
| B) Morphological analysis of the words using tree diagrams. | |
| (5 out of 7) | [5] |
| Q. 3. A) Short Answer type questions in about 4 - 5 sentences each (5 out of 7) | |
| (On Module III & IV) | [15] |
| B) I C Analysis of the sentences (5 out of 7) | [5] |
| Q. 4. A) Identification of different deixis given in the passage/dialogue: | [5] |

B. A. Part II
(Discipline Specific Core) (DSC-C5)
English (Paper III) (Semester III)
LITERATURE AND CINEMA (CBCS)

Course Objectives:

- To introduce film and its relationship to literature to the students
- To acquire film literacy through a working knowledge of basic film terminology
- To develop critical approaches to engage with film adaptations
- To establish a clear understanding of literature through film adaptations of literary texts
- To introduce the students to the issues and practices of cinematic adaptations

Detailed Syllabi
June 2019 Onwards

Module I

Theories of Adaptation

Module II

Adaptation as Interpretation

Module III

William Shakespeare's *Comedy of Errors* and its Adaptation *Angoor* (dir. Gulzar, 1982)

Module IV

William Shakespeare's *Comedy of Errors* and its Adaptation *Angoor* (dir. Gulzar, 1982)

Division of Teaching: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Shakespeare, William. *The Comedy of Errors*, ed. Wells (Oxford, 1995).

William Shakespeare's *Comedy of Errors* and its Adaptation *Angoor* (dir. Gulzar, 1982)

Suggested Reading:

Linda Hutcheon, 'On the Art of Adaptation', *Daedalus*, vol. 133, (2004).

Thomas Leitch, 'Adaptation Studies at Crossroads', *Adaptation*, 2008, vol.1, no.1, pp. 63–77.

Poonam Trivedi, 'Filmi Shakespeare', *Litfilm Quarterly*, vol. 35, issue 2, 2007.

Tony Bennett and Janet Woollacott, 'Figures of Bond', in *Popular Fiction: Technology, Ideology, Production, Reading*, ed. Tony Bennet (London and New York: Routledge, 1990).

Deborah Cartmell and Imelda Whelehan, eds., *The Cambridge Companion to Literature on Screen* (Cambridge: Cambridge University Press, 2007).

John M. Desmond and Peter Hawkes, *Adaptation: Studying Film and Literature* (New York: McGraw-Hill, 2005).

Linda Hutcheon, *A Theory of Adaptation* (New York: Routledge, 2006).

J.G. Boyum, *Double Exposure* (Calcutta: Seagull, 1989).

B. Mcfarlens, *Novel to Film: An Introduction to the Theory of Adaptation* (Clarendon University Press, 1996).

B. A. Part II
(Discipline Specific Core) (DSC-C5)
English (Paper III) (Semester III)
LITERATURE AND CINEMA
(CBCS)
June 2019 Onwards
Pattern of Question Paper

Marks: 50

- Q1. A) Five multiple choice questions with four alternatives (5)
B) Answer the following questions in one word/ phrase/sentence each.
(Q. 1 A and B to be set on Module III and IV) (5)
- Q.2. Answer the following questions in about 250-300 words (10)
(A or B on Module I and II)
- Q.3. Answer the following questions in about 250-300 words (10)
(A or B on Module III and IV)
- Q.4. Write Short Notes in about 100-150 words each (4 out of 6) (20)
(three to be set on Module I, II, and three on Module III, IV)

Suggestions for Q.3 and Q.4:

- A film/book review of the prescribed film/text
- Comparative study of the text and film adaptation based on technique, cinematic liberty, distortion, plot, characterization, language, theme, etc.
- From page to stage difference between the textual aesthetics and film aesthetics
- Questions based on the theory of adaptation
- Structural elements of the text and the film
- Questions based on text and context

B. A. Part II
(Discipline Specific Core) (DSC-C29)
English (Paper V) (Semester IV)
LITERATURE AND CINEMA
(CBCS)

Course Objectives:

- To introduce film and its relationship to literature to the students
- To acquire film literacy through a working knowledge of basic film terminology
- To develop critical approaches to engage with film adaptations
- To establish a clear understanding of literature through film adaptations of literary texts
- To introduce students to the issues and practices of cinematic adaptations

Detailed Syllabi
June 2019 Onwards

Module I

Transformation and Transposition

Module II

Hollywood and 'Bollywood'

Module III

Chetan Bhagat's *Five Point Someone* and its Adaptation *3 Idiots* (dir. Rajkumar Hirani, 2009)

Module IV

Chetan Bhagat's *Five Point Someone* and its Adaptation *3 Idiots* (dir. Rajkumar Hirani, 2009)

Division of Teaching: 4 X 15 Periods = 60 Periods

Prescribed Text:

Bhagat, Chetan, *Five Points Someone*. New Delhi: Rupa & Co. 2004.

Chetan Bhagat's *Five Point Someone* and its Adaptation *3 Idiots* (dir. Rajkumar Hirani, 2009)

Suggested Reading:

Linda Hutcheon, 'On the Art of Adaptation', *Daedalus*, vol. 133, (2004).

Thomas Leitch, 'Adaptation Studies at Crossroads', *Adaptation*, 2008, vol.1, no.1, pp. 63–77.

Poonam Trivedi, 'Filmi Shakespeare', *Litfilm Quarterly*, vol. 35, issue 2, 2007.

Tony Bennett and Janet Woollacott, 'Figures of Bond', in *Popular Fiction: Technology, Ideology, Production, Reading*, ed. Tony Bennet (London and New York: Routledge, 1990).

Deborah Cartmell and Imelda Whelehan, eds., *The Cambridge Companion to Literature on Screen* (Cambridge: Cambridge University Press, 2007).

John M. Desmond and Peter Hawkes, *Adaptation: Studying Film and Literature* (New York: McGraw-Hill, 2005).

Linda Hutcheon, *A Theory of Adaptation* (New York: Routledge, 2006).

J.G. Boyum, *Double Exposure* (Calcutta: Seagull, 1989).

B. Mcfarlens, *Novel to Film: An Introduction to the Theory of Adaptation* (Clarendon University Press, 1996).

Biswas Mun Mun Das, "Depiction of Youth Culture in Chetan Bhagat's *Five Point Someone*"
The Criterion: An International Journal in English, Vo.4, Issue-II, April 2013,
<http://www.the-criterion.com/V4/n2/Mun.pdf>

B. A. Part II
(Discipline Specific Core) (DSC-C29)
English (Paper V) (Semester IV)
LITERATURE AND CINEMA (CBCS)

June 2019 Onwards
Pattern of Question Paper

Marks: 50

- Q1. A) Five multiple choice questions with four alternatives (5)
B) Answer the following questions in one word/ phrase/sentence
(Q. 1 A and B to be set on Module III and IV) (5)
- Q2. Answer the following questions in about 250-300 words [10]
(A or B on Module I and II)
- Q3. Answer the following questions in about 250-300 words [10]
(A or B on Module III and IV)
- Q4. Write Short Notes in about 100-150 words each (4 out of 6) [20]
(three to be set on Module I, II, & three on Module III, IV)

Suggestions for Q.3 and Q.4:

- A film/book review of the prescribed film/text
- Comparative study of the text and film adaptation based on technique, cinematic liberty, distortion, plot, characterization, language, theme, etc.
- From page to stage difference between the textual aesthetics and film aesthetics
- Questions based on the theory of adaptation
- Structural elements of the text and the film
- Questions based on text and context

B. A. Part II
(Discipline Specific Core) (DSC-C6)
English (Paper IV) (Semester III)
PARTITION LITERATURE (CBCS)

Course Objectives:

- To create an awareness of the partition scenario among the students
- To explain the hidden human dimensions of the partition to the students
- To elaborate on the impact of partition on society

Detailed Syllabi
June 2019 Onwards

Module I

Partition: Causes and Effects

Module II

Communal conflicts and Violence

Module III

Khushwant Singh's *A Train to Pakistan*

Module IV

Khushwant Singh's *A Train to Pakistan*

Division of Teaching: 4 Modules X 15 Periods = 60 Periods

Prescribed Text:

Singh, Khushwant. *A Train to Pakistan*. New Delhi: Ravi Dayal Publishers, 1956.

Suggested Reading:

Ritu Menon and Kamala Bhasin, 'Introduction', in *Borders and Boundaries* (New Delhi: Kali for Women, 1998).

Sukirta P. Kumar, *Narrating Partition* (Delhi: Indialog 2004).

Urvashi Butalia, *The Other Side of Silence: Voices from the Partition of India* (New Delhi: Kali for Women, 2000).

More, D.R. *The Novels on the Indian Partition*, Jaipur, Shrutu Publication, 2008.

Sigmund Freud, 'Mourning and Melancholia', in *The Complete Psychological Works of Sigmund Freud*, tr. James Strachey (London: Hogarth Press, 1953) pp.3041-53.

Beniwal, Anup. *Representing Partition: History, Violence and Narration*. Delhi: Shakti Book House. 2005.

Bhalla, Alok. *Partition Dialogues: Memories of a Lost Home*. New Delhi: Oxford University Press. 2006.

Sharma, V.P. "Communalism and its Motifs in three Post Independence Novels: Khushwant Singh's *A Train to Pakistan*, Bhisham Sahni's *Tamas* and Chaman Nahal's *Azadi*," *Recent Indian English Literature*. Ed. S.D. Sharma, Karnal: Natraj Publishing House, 1998. Print.

Shyam. M. Asnani. "The Theme of Partition in the Indo-English Novel." *New Dimensions of Indian English Novel*. New Delhi: Doaba House Publication, 1988.38-50. Print.

B. A. Part II
(Discipline Specific Core) (DSC-C30)
English (Paper VI) (Semester IV)
PARTITION LITERATURE (CBCS)
Detailed Syllabi
June 2019 Onwards

Module I

Impact of Partition on Women

Module II

Home and Exile

Module III

Short Stories:

Toba Tek Singh	- Saadat Hasan Manto
The Final Solution	- Manik Bandopadhyay

Module IV

Short Stories:

Defend Yourself Against Me	- Bapsi Sidhwa
A Leaf in the Storm	- Lalithambika Antharjanam

Division of Teaching: 4 Modules X 15 Periods = 60 Periods

Short Stories Prescribed From:

Saadat Hasan Manto, "Toba Tek Singh", in *Black Margins: Manto*, tr. M. Asaduddin (New Delhi: Katha, 2003) pp. 212–20.

Manik Bandhopadhyaya, 'The Final Solution', tr. Rani Ray, *Mapmaking: Partition Stories from Two Bengals*, ed. Debjani Sengupta (New Delhi: Srishti, 2003) pp. 23–39.

Sidhwa, Bapsi. "Defend Yourself Against Me." in *And the World Changed: Contemporary Stories by Pakistani Women*, ed. M. Shamsie, 27–52. New York: The Feminist Press, 2008.

Lalithambika Antharjanam, "A Leaf in the Storm", tr. K. Narayana Chandran, in *Stories about the Partition of India*. ed. Alok Bhalla (New Delhi: Manohar, 2012) pp. 137–45.

Suggested Reading:

Ritu Menon and Kamala Bhasin, 'Introduction', in *Borders and Boundaries* (New Delhi: Kali for Women, 1998).

Sukirta P. Kumar, *Narrating Partition* (Delhi: Indialog 2004).

Urvashi Butalia, *The Other Side of Silence: Voices from the Partition of India* (New Delhi: Kali for Women, 2000).

More, D.R. *The Novels on the Indian Partition*, Jaipur, Shruti Publication, 2008.

- Sigmund Freud, 'Mourning and Melancholia', in *The Complete Psychological Works of Sigmund Freud*, tr. James Strachey (London: Hogarth Press,1953) pp.3041-53.
- Beniwal, Anup. *Representing Partition: History, Violence and Narration*. Delhi: Shakti Book House. 2005.
- Bhalla, Alok. *Partition Dialogues: Memories of a Lost Home*. New Delhi: Oxford University Press. 2006.
- Sharma, V.P. "Communalism and its Motifs in three Post Independence Novels: Khushwant Singh's *A Train to Pakistan*, Bhisham Sahni's *Tamas* and Chaman Nahal's *Azadi*," *Recent Indian English Literature*. Ed. S.D. Sharma, Karnal: Natraj Publishing House, 1998. Print.
- Shyam. M. Asnani. "The Theme of Partition in the Indo-English Novel." *New Dimensions of Indian English Novel*. New Delhi: Doaba House Publication, 1988.38-50. Print.

B. A. Part II
(Discipline Specific Core) (DSC-C6 and C30)
Semester III (Paper IV) and Semester IV (Paper IV)
PARTITION LITERATURE
(CBCS)
June 2019 Onwards

Pattern of Question Paper for (Paper IV) and (Paper IV)

- Q.1. A) Multiple Choice Questions with four alternatives. (5)
 B) Answer the following questions in one word/ phrase/sentence each. (5)
 (Q.1 A and B to be set on Module III and IV)
- Q.2.A) Answer the following question in about 250-300words. (10)
 OR
 B) Answer the following question in about 250-300words. (10)
 (A and B to be set on Module I and II)
- Q.3. A) Answer the following question in about 250-300words. (10)
 OR
 B) Answer the following question in about 250-300words. (10)
 (A and B to be set on Module III and IV)
- Q.4 A) Write short notes in about 100-150words each: (4 out of 6) (20)
 (3 to be set on Module I and II and 3 to be set on Module III and IV)

B. A. Part II
(Discipline Specific Core) (DSC-D17)
LINGUISTICS (Paper III) (Semester III)
INTRODUCTION TO MODERN GRAMMAR (CBCS)

Course Objectives:

- To acquaint the students with basic concepts in Linguistics in general
- To acquaint the students with units of language – Words, Phrases, Clauses, and Sentences
- To acquaint the students with the form and function of units of language
- To acquaint the students with basic concepts in Semantics
- To acquaint the students with basic concepts in Socio-linguistics

Detailed Syllabi
June 2019 Onwards

Module I

Orientation:

1. What is Grammar?
2. Prescriptive and Descriptive Grammar

Module II

Word Classes:

1. Open Class Words
2. Closed Class Words

Module III

Phrases:

1. Noun Phrase
2. Prepositional Phrase
3. Adjective Phrase

Module IV

Phrases:

1. Adverb Phrase
2. Genitive Phrase
3. Verb Phrase

Reference Books:

- Kanbarkar R.K. and Kulkarni R. A. *A Grammar of English*. Unique Publisher House, 1978.
- Leech G. N. et.al *English Grammar for Today*. Macmillan, 1973.
- Shastri S.V. & Shaikh M.A. *A Course in English Grammar and Composition*, Kolhapur, Phadake Publications, 1978.
- Thomson and Martinet. *A Practical English Grammar*. Oxford University Press, 1960.

Suggested Reading:

- Balasubramaniam, T. *A Textbook of English Phonetics for Indian Students*. Macmillan, 1981.
- Bolinger, Dwight. *Aspects of Language*. Harcourt Brace Javonovich, New York, 1968
- Quirk Randolph, *A University Grammar of English*. Oxford University Press. 1973.
- Crystal, David. *Linguistics*. Penguin Books, England. 1982
- Hockett, Charles F. *A Course in Modern Linguistics*. New York: Macmillan, 1958
- Rajimwale, Sharad. *Elements of General Linguistics Vol. I, II* Rama Brothers, New Delhi. 2001
- Ullman S. *The Principals of Semantics*. Oxford, Blackwell. 1957
- Yule, George. *Pragmatics*. Oxford OUP. 1996

B. A. Part II
(Discipline Specific Core) (DSC-D17)
LINGUISTICS (Paper III) (Semester III)
INTRODUCTION TO MODERN GRAMMAR (CBCS)
The Pattern of Question Paper
June 2019 Onwards

	Total Marks 50
Q. 1. Five Multiple Choice questions based on all Modules	[5]
Q. 2. Short answer type questions on Module I and II (2 out of 3)	[10]
Q. 3. Short Notes on Module III and IV (3 out of 4)	[15]
Q. 4. Give form and function labels on Module III (5 out of 6)	[10]
Q. 5. Correction of Sentences (based on articles, preposition, adverbs. Concord, number, voice, etc) (10 out of 10)	[10]

B. A. Part II
(Discipline Specific Core) (DSC-D45)
LINGUISTICS (Paper V) (Semester IV)
INTRODUCTION TO MODERN GRAMMAR (CBCS)

Course Objectives:

- To acquaint the students with Clauses
- To acquaint the students with different type of Sentences
- To acquaint the students with basic concepts in Stylistics and Sociolinguistics
- To acquaint the students with Varieties of Language

Detailed Syllabi (June 2019 Onwards)

Module I

Clauses:

1. Finite Clauses
2. Non-finite Clauses
3. Main Clauses

Module II

1. Subordinate Clauses
2. Co-ordination

Module III

Sentences:

1. Statements
2. Interrogative
3. Exclamatory
4. Imperative
5. Negative
6. Affirmative

Module IV

Sentences:

1. Simple
2. Compound
3. Complex
4. Active
5. Passive

Reference Books:

Kanbarkar R.K. and Kulkarni R. A. *A Grammar of English*. Unique Publisher House, 1978.

Leech G. N. et.al *English Grammar for Today*. Macmillan, 1973.

Shastri S.V. & Shaikh M.A. *A Course in English Grammar and Composition*, Kolhapur, Phadake Publications, 1978.
Thomson and Martinet. *A Practical English Grammar*. Oxford University Press, 1960.

Suggested Reading:

Balasubramaniam, T. *A Textbook of English Phonetics for Indian Students*. Macmillan, 1981.
Bolinger, Dwight. *Aspects of Language*. Harcourt Brace Javonovich, New York, 1968.
Quirk Randolph, *A University Grammar of English*. Oxford University Press. 1973.
Crystal, David. *Linguistics*. Penguin Books, England. 1982.
Hockett, Charles F. *A Course in Modern Linguistics*. New York: Macmillan, 1958.
Sharad. *Elements of General Linguistics Vol. I, II* Rama Brothers, New Delhi. 2001.
Ullman S. *The Principals of Semantics*. Oxford, Blackwell. 1957.
Yule, George. *Pragmatics*. Oxford OUP. 1996.

B. A. Part II
(Discipline Specific Core) (DSC-D45)
LINGUISTICS (Paper V) (Semester IV)
INTRODUCTION TO MODERN GRAMMAR (CBCS)
PATTERN OF QUESTION PAPER
June 2019 Onwards

	Total Marks 50
Q. 1. Five Multiple Choice questions based on all Modules.	[5]
Q. 2. Short answer type question on Module 1 and 2 (2 out of 3)	[10]
Q. 3. Short Note on Module 3 & 4 (3 out of 4)	[15]
Q. 4. Give form and function labels (on Module III) (5 out of 6)	[10]
Q. 5. Correction of Sentences (based on articles, preposition, adverbs, Concord, number, voice etc) (10 out of 10)	[10]

B. A. Part II
(Discipline Specific Core) (DSC-D18)
LINGUISTICS (Paper IV) (Semester III)
PERSPECTIVES ON MODERN LINGUISTICS (CBCS)

Detailed Syllabi
June 2019 Onwards

Module I

Orientation:

1. What is Linguistics?
2. Branches of Linguistics
3. What is Semantics?

Module II

Orientation:

1. What is style?
2. What is stylistics?
3. What is sociolinguistics?

Module III

Linguistics:

1. History of Linguistics?
2. Langue and Parole
3. Language as a System of Sign:
(Sign- Signifier-Signified.)
4. Diachronic and Synchronic Linguistics

Module IV

Semantics:

1. Synonymy
2. Antonymy
3. Polysemy

Reference Books:

- Crystal, David. *Linguistics*. Penguin Books, England.1982
Hudson R. A. *Sociolinguistics*. Cambridge, C.U.P. 1980
Leech, G. N. *A Linguistic Guide to English Poetry*. Longman, London.1969
Palmar, F. R. *Semantics*. Cambridge University Press.1996
Rajimwale, Sharad. *Elements of General Linguistics* Vol. I, II Rama Brothers, New Delhi. 2001.

Suggested Reading:

- Balasubramaniam, T. *A Textbook of English Phonetics for Indian Students*.
Macmillan. 1981.
Bolinger, Dwight. *Aspects of Language*. Harcourt Brace Javonovich, New York,1968.

Corder, S. Pit. *Introducing Applied Linguistics*. Harmondsworth, Penguin 1973.
Hockett, Charles F. *A Course in Modern Linguistics*. New York: Macmillan, 1958.
Ullman S. *The Principals of Semantics*. Oxford, Blackwell.1957.

B. A. Part II
(Discipline Specific Core) (DSC-D18)
LINGUISTICS (Paper IV) (Semester III)
PERSPECTIVES ON MODERN LINGUISTICS (CBCS)

PATTERN OF QUESTION PAPER
June 2019 Onwards

	Total Marks 50
Q. 1. Five Multiple Choice questions based on all Modules	[5]
Q. 2. Short answer type questions on Module I and II (2 out of 3)	[10]
Q. 3. Short Notes on Module III and IV (2 out of 3)	[10]
Q. 4. Short Answer type questions on Module II and III (5 out of 7)	[10]
Q. 5. Essay type question on Module III and IV (1 out of 2)	[15]

B. A. Part II (Discipline Specific Core) (DSC-D46)
LINGUISTICS (Paper VI) (Semester IV)
PERSPECTIVES ON MODERN LINGUISTICS
(CBCS)

Detailed Syllabi
June 2019 Onwards

Module I

1. Hyponymy
2. Homonymy
3. Collocation

Module II

Stylistics:

1. Ordinary and Literary Language
2. Poetic Devices:
 - a) Sense Devices
Figures of Speech
 - b) Sound Devices:
Rhyme & Rhythm, Alliteration, Onomatopoeia
3. Stylistic Analysis of a Short Poem.

Module III

Sociolinguistics:

- a. Varieties of Language
- b. Dialect: Regional & Social
- c. Standard Language

Module IV

Varieties of Language:

- a. Code-mixing and code-switching
- a. Pidgin and Creole

Reference Books:

1. Crystal, David. *Linguistics*. Penguin Books, England.1982
2. Hudson R. A. *Sociolinguistics*. Cambridge, C.U.P. 1980
3. Leech, G. N. *A Linguistic Guide to English Poetry*. Longman, London.1969
4. Palmar, F. R. *Semantics*. Cambridge University Press.1996
5. Rajimwale, Sharad. *Elements of General Linguistics* Vol. I, II Rama Brothers, New Delhi.2001

Suggested Reading:

1. Balasubramaniam, T. *A Textbook of English Phonetics for Indian Students*. Macmillan, 1981.
2. Bolinger, Dwight. *Aspects of Language*. Harcourt Brace Javonovich, New York,1968

3. Quirk Randolph, *A University Grammar of English*. Oxford University Press.1973.
4. Crystal, David. *Linguistics*. Penguin Books, England.1982
5. Hockett, Charles F. *A Course in Modern Linguistics*. New York: Macmillan, 1958
6. Rajimwale, Sharad. *Elements of General Linguistics Vol. I, II* Rama Brothers, New Delhi.2001
7. Ullman S.*The Principals of Semantics*.Oxford, Blackwell.1957
8. Yule, George. *Pragmatics*. Oxford OUP. 1996

B. A. Part II (Discipline Specific Core) (DSC-D46)
Linguistics (Paper VI) (Semester IV)
PERSPECTIVES ON MODERN LINGUISTICS
(CBCS)
Pattern of Question Paper
June 2019 Onwards

	Total Marks 50
Q. 1 Five Multiple Choice questions based on all Modules	[5]
Q 2 Short answer type questions on Module 1 & 2 (2 out of 3)	[10]
Q 3 Short Note on Module 3 & 4 (2 out of 3)	[10]
Q 4 Short Answer type questions on Module 2 to 3 (5 out of 7)	[10]
Q. 5 Essay type question on Unit- 3 to 4 (1 out of 2)	[15]

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.A. Part-III

English

Syllabus to be implemented from

June, 2020 onwards.

Shivaji University, Kolhapur
B. A.III
Compulsory English
Ability Enhancement Compulsory Course (CBCS)
ENGLISH FOR COMMUNICATION
From June 2020 Onwards

Course Objectives:

- To enhance students' communication skills
- To impart employability skills to students
- To prepare students for competitive examinations
- To enable students to acquire professional skills such as media writing
- To enable students to learn manners and etiquettes required at workplace
- To enhance students' reading comprehension skills
- To create interest in English literature among students
- To inculcate human values and ethics in order to enable students' to become good citizens of the country

Course Outcomes: After the completion of the course, the students will be able to:

- Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
- Face job interviews confidently and efficiently.
- Acquire soft skills required at workplaces and in real life.
- Learn group behavior and team work.
- Learn to value and respect others' opinions and views and develop democratic attitude.
- Face competitive examinations confidently and efficiently with adequate linguistic confidence.
- Acquire professional skills required in media writing such as writing editorials.
- Learn to appreciate and enjoy reading poetry and prose passages.
- Acquire human values and develop cultured outlook.

SEMESTER V AECC 5

MODULE I

- A. Interview Skills
- B. The Interview -V.V. John

MODULE II

- A. Grammar for Competitive Examinations
- B. The Lottery - Shirley Jackson

MODULE III

- A. Writing Skills for Competitive Examinations
- B. After Twenty Years - O' Henry

MODULE IV

- A. I Shall Return To This Bengal - Jibananda Das
- B.(i) Song of Youth - A. P. J. Abdul Kalam
- (ii) The Orphan Girl - Henry Derezio

***Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR**

SEMESTER VI

AECC 6

MODULE V

- A. Group Discussion
- B. The Lighthouse Keeper of Aspinwall - Henry Sienkiewicz

MODULE VI

- A. Note Making and Note Taking
- B. Three Questions - Leo Tolstoy

MODULE VII

- A. Media Writing
- B. Eight Rupees - Murli Das Melwani

MODULE VII

- A. The Mystic Drum - Gabriel Okara
- B. (i) Two Dead Soldiers- Jean Arasanayagam
(ii) Bora Ring - Judith Wright

***Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours

Shivaji University, Kolhapur
B. A.III
Compulsory English
Ability Enhancement Compulsory Course (CBCS)
ENGLISH FOR COMMUNICATION

PATTERN OF QUESTION PAPER (June 2020 Onwards)

Semester V (Paper E)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	03
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	03
	C.	Two different Vocabulary Exercises to be set for 1 mark each	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. (2 out of 3)	2 on Prose and 1 on Poetry	04
	B.	Write Short Note on the following in about 7-8 sentences each. (1 out of 2)	1 on Prose and 1 on Poetry	04
Q.3	--	Questions to be set on Interview Skills (A or B)	Module I A	08
Q.4	--	Question to be set on Grammar for Competitive Examinations (A or B)	Module II A	08
Q.5	--	Question to set on Writing Skills for Competitive Examinations(A or B)	Module III A	08

Semester VI (Paper F)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	03
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	03
	C.	Two different Vocabulary Exercises to be set for 1 mark each.	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. (2 out of 3)	2 on Prose and 1 on Poetry	04
	B.	Write Short Note on the following in about 7-8 sentences each. (1 out of 2)	1 on Prose and 1 on Poetry	04
Q.3	--	Question to be set on Group Discussion(A or B)	Module V A	08
Q.4	--	Question to be set on Note Making and Note Taking(A or B)	Module VI A	08
Q.5	--	Question to set on Media Writing(A or B)	Module VII A	08

Shivaji University, Kolhapur
B. A. Part III
Special English
INTRODUCTION TO LITERARY CRITICISM (CBCS)
Discipline Specific Elective
Semester V (Paper VII) (DSE- E11) & Semester VI (Paper XII) (DSE- E136)
From June 2020 onwards

Course Objectives:

- To introduce students to the major trends in literary criticism.
- To familiarize students with the major critical concepts.
- To help students to study the original contributions made in the field of literary criticism.
- To acquaint students with the various literary and critical movements.
- To train students to write critical appreciation of poetry.

Course Outcomes:

- Students are able to understand the major trends in criticism.
- Students are able to interpret critical concepts.
- Students are able to study the original contributions to literary criticism.
- Students are acquainted with literary and critical movements.
- Students are able to understand the meaning and appreciate the poems critically.

Semester V(Paper VII) (DSE- E11)	
Module I	Introduction to Literary Criticism: 1. Nature of Criticism 2. Function of Criticism
Module II	Classical Criticism: 1. The Concept of Tragedy 2. The Ideal Tragic Hero (From Aristotle's Poetics)
Module III	Neo-classical Criticism: Dr. Samuel Johnson's <i>Preface to Shakespeare</i> (1765)
Module IV	Literary Terms: 1. Symbolism 2. Realism 3. Humour 4. Paradox
Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR	
Semester VI (Paper XII) (DSE- E136)	
Module V	Romantic Criticism: William Wordsworth's Theory of Poetic Diction (From William Wordsworth's Preface to Lyrical Ballads)
Module VI	Victorian Criticism: Matthew Arnold's Touchstone Method (From Matthew Arnold's The Study of Poetry)
Module VII	Modern Criticism:

	T S Eliot's <i>Tradition and Individual Talent</i> (1919)
Module VIII	Practical Criticism: Poetry
Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT	

Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours

Recommended Reading: Semester V and Semester VI

- Abrams, M. H. *A Glossary of Literary Terms* (8th Edition). New Delhi: Akash Press, 2007.
- Alexander, L. G. *Prose and Poetry Appreciation for Overseas Students*. London: Longman Green and Comp. Ltd., 1966.
- Allex, Latter & Rachel, Teubner. *William Wordsworth's Preface to the Lyrical Ballads*. London: Macat Library, 2018.
- Bliss, Perry. *A Study of Poetry*. Kindle Edition, 22 Feb., 2018.
- Butcher, S. C. *Poetics*. New Delhi: Kalyani Publishers, 1978.
- Bywater, Ingram. *Aristotle's Poetics*. Oxford: Atthe Clarendon Press, 1976.
- Cuddon, J. A. *The Penguin Dictionary of Literary Terms and Literary Theory* (4th Edition). London and New York: Penguin, 2000.
- Davis, Joseph, K. Pathea, R Broughton and Michael Wood. *Literature*. Illinois: Scott, Foresman and Comp. Glenviews, 1977.
- Eliot, T.S. *The Sacred Wood – Essays on Poetry and Criticism*. (Seventh edition), 1950.
- Enright, D.J. & Ernst De Chickera. *English Critical Texts: 16th Century to 20th Century*. OUP, 1968.
- Fyfe, Hamilton. *Aristotle's Art of Poetry*. London: OUP, 1940.
- Gray, Martin. *A Dictionary of Literary Terms* (York Handbooks), Pearson Education, 2009.
- Hudson, W. H. *An Introduction to the Study of Literature*. New Delhi: Atlantic, 2007.
- Richards, I. A. *Practical Criticism: A Study of Literary Judgment*. New Delhi: UBS Publishers, 2002.
- Scott James, R. A. *The Making of Literature*. Mumbai: Allied Publishers Pvt. Ltd., 1963.
- Sherbo, Arthur(ed.). *The Yale edition of the works of Samuel Johnson*. Vol.7. New haven: Yale University Press, 1968.
- S. Ramaswami & V. S. Seturaman (ed.) *The English Critical Tradition: An Anthology of English Literary Criticism*, Volume 1,. New Delhi: Macmillan Publishers India Ltd. 1977/2009.
- Seturaman, V. S., C. T. Indra and T. Siraman. *Practical Criticism*. Madras: Macmillan India Ltd., 1995.
- Waugh, Patricia (ed.) *Literary Theory and Criticism: An Oxford Guide*. New York: Oxford University Press, 2006.
- Wimsatt, W. K. and Cleanth Brooks. *Literary Criticism: A Short History*. New Delhi: Oxford and IBH Publishing Company Pvt. Ltd., 1957.
- Wellek, Rene and Austin Warren. *Theory of Literature*. London: Jonathan Cape, 1949.
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Shivaji University, Kolhapur
B. A. Part III
Special English
INTRODUCTION TO LITERARY CRITICISM (CBCS)
Discipline Specific Elective
Semester V (Paper VII) (DSE- E11)
PATTERN OF QUESTION PAPER
From June 2020 onwards

Total Marks: 40

Q1. Objective type Question

- A) Multiple choice questions with four alternatives. 4
- B) Answer the following questions in one word/phrase/sentence each. 4
(Q1 A and B to be set on topics covering **Module I to IV**)
(At least one item to be set on each Module)

Q2. Answer the questions in about 250-300 words each.

- (A or B to be set on **Module I, II, and III**) 10

Q3. Answer the questions in about 250-300 words each.

- (A or B to be set on **Module I, II, and III**) 10

Q3 A. Write short notes on the following: (Any 3 out of 5) 12

(3 to be set on **Module IV** and 2 on **Module I, II, III** not covered in question 2 and 3)

INTRODUCTION TO LITERARY CRITICISM (CBCS)
Semester VI (Paper XII) (DSE- E136)
PATTERN OF QUESTION PAPER
From June 2020 onwards

Total Marks: 40

Q1. Objective type Question

- A) Multiple choice questions with four alternatives. 4
- B) Answer the following questions in one word/phrase/sentence each. 4
(Q1. A and B to be set on topics covering **Module V to VII**)
(At least one item to be set on each Module)

Q2. Answer in the questions 250-300 words each.

- (A or B to be set on **Module V, VI, and VII**) 10

Q3. Answer the questions in about 250-300 words each.

- (A or B to be set on **Module V, VI, and VII**) 10

Q4. Write critical appreciation of the given poem. 12

(with the help of points such as title, theme, content, devices, message, style, rhyme-scheme, diction, type of poem, tone, stanza-pattern, metre, etc. **(Based on Module VIII)**)

EQUIVALENCE

Old Title	New Title
LITERARY CRITICISM AND LITERARY APPRECIATION	INTRODUCTION TO LITERARY CRITICISM

Shivaji University, Kolhapur

B. A.III

English Special

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12) and Semester VI (Paper XIII) (DSE – E137)

(From June 2020 Onwards)

Course Objectives:

- To make students engaged and curious readers of poetry
- To introduce students to poetry from various cultures and traditions
- To make students understand that poetry gives intellectual, moral and linguistic pleasures
- To make students hear and read poems aloud and to memorize lines

Course Outcomes:

- Students will be able to trace the development of the poetry in English from the days of Shakespeare to the contemporary India.
- Students will be able to appreciate and analyze the poems properly.
- Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements.
- Students will have an insight into poetry and they will be able to make a lively and interesting reading.

SEMESTER V (Paper VIII) (DSE – E12)		
MODULE NO.	TITLE OF THE MODULE	NAME OF THE POET
I. Topics For Background Readings:		
1.	Elizabethan Poetry	
2.	Metaphysical Poetry	
3.	Romantic Poetry	
II. Selections from Elizabethan Poetry:		
1.	Sweet Warrior (Sonnet 57)	Edmund Spenser
2.	Sonnet To The Moon	Sir Philip Sydney
3.	Full Many A Glorious Morning... (Sonnet 33)	William Shakespeare
III. Selections from Metaphysical Poetry:		
1.	The Sun Rising	John Donne
2.	The Retreat	Henry Vaughan
3.	The Collar	George Herbert
IV. Selections from Romantic Poetry:		
1.	My Heart Leaps Up	William Wordsworth
2.	The Rime of the Ancient Mariner	S. T. Coleridge
3.	Ozymandias	P. B. Shelley
4.	When We Two Parted	Lord Byron
*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR		

SEMESTER VI (Paper XIII) (DSE – E137)		
MODULE NO.	TITLE OF THE MODULE	NAME OF THE POET
V. Topics For Background Readings:		
1.	Victorian Poetry	
2.	Modern English Poetry	
3.	Modern Indian English Poetry	
VI. Selections from Victorian Poetry:		
1.	The Lady Of Shallot	Alfred Lord Tennyson
2.	My Last Duchess	Robert Browning
3.	Love Came Down At Christmas	Christiana Rossetti
VII. Selections from Modern English Poetry:		
1.	No Second Troy	W. B. Yeats
2.	The Hollow Men	T. S. Eliot
3.	Tonight I Can Write	Pablo Neruda
VIII. Selections from Modern Indian English Poetry:		
1.	The Professor	Nissim Ezekiel
2.	A Hot Noon in Malabar	Kamala Das
3.	A River	A. K. Ramanujan
4.	A Kind of Happiness	Jayanta Mahapatra
*Note: Semester VI: 10 Marks for internal Evaluation: STUDENTS' GROUP PROJECT		

Division of Teaching Hours: 8 Modules x 15 Hours each= 120 Hours

Recommended Reading: Semester V and Semester VI

- Appelbaum, Stanley. *English Romantic Poetry: An anthology*. Dover Publications Inc. 1996.
- Burrow, Colin. *Metaphysical Poetry*. Penguin Classics. 2006.
- Chaudhuri, Roshinka. *A History of Indian Poetry in English*. Cambridge University press. 2016.
- Chaudhuri, Sukanta. *Modern Indian Literature*, New Delhi: OUP, 2004.
- Courthope, W.J. *A History of English Poetry*. Vol.I Macmillan, 1995.
- Craig, W.J. (ed.). *The Complete works of William Shakespeare*. Oxford: OUP., 1905.
- Fenton, James. *An Introduction to English Poetry*. New York: Farrar, Strauss and Giroux, 2004.
- Gardner, Martin, *The Annotated Ancient Mariner*, New York:Clarkson Potter,1965.
- Harold Bloom and Lionel Trilling. (ed.) *Romantic Prose and Poetry*, New York: OUP, 1973.
- Mitra, Zinia(ed.). *Indian Poetry in English:Critical Essays*. New Delhi: PHI Learning Pvt Ltd.,2012.
- Naik, M.K. *A History of Indian English Literature*. Delhi, 1982.
- Narasimhaiah, C.D., (ed.) *An Anthology of Commonwealth Poetry*, Delhi: Macmillan, 1990.
- Negri, Paul. *English Victorian poetry*. Dover Publications Inc. 1998
- Ramanan, M.G. *Modern English Poetry: A Selection*. New Delhi:Orient Blackswan,2013.
- Samuel Taylor Coleridge, *Biographia Literaria*, ed. George Watson. London: Everyman, 1993.

Shivaji University, Kolhapur

B. A.III

English Special

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12)

PATTERN OF QUESTION PAPER

From June 2020 Onwards

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module II, III and IV**)
- Q.2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module I**)
- Q.3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module II, III or IV**)
- Q.4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module I** and two be on **Module II, III or IV**)
-

ENGLISH POETRY (CBCS)
Discipline Specific Elective
Semester VI (Paper XIII) (DSE – E137)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module VI, VII and VIII**)
- Q.2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module V**)
- Q.3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **VI, VII or VIII**)
- Q.4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module V** and two be on **Module VI, VII or VIII**)
-

EQUIVALENCE

Old Title	New Title
Understanding Poetry	English Poetry

Shivaji University, Kolhapur
B. A. Part III
Special English
ENGLISH DRAMA (CBCS)
Discipline Specific Elective
Semester V (Paper IX) ((DSE – E13) & Semester VI (Paper XIV) (DSE – E138)
From June 2020 onwards

Course Objectives:

- To make students understand different forms of drama
- To enable students to relate drama to their ideological or socio-political contexts
- To help students improve their creative and imaginative faculties through the reading of drama
- To enable students to know about various aspects of the drama

Course Outcomes:

- Students are able to understand different forms of drama.
- Students are able to relate drama to their ideological or socio-political contexts.
- Students are able to improve their creative and imaginative faculties through the reading of drama.
- Students are able to know about various aspects of the drama.

Semester V (Paper IX) ((DSE – E13)

MODULE I

Definition and Elements of Drama

MODULE II

Tragedy as a Form

MODULE III

The Importance of Being Earnest - Oscar Wilde

MODULE IV

Hamlet – William Shakespeare

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Wilde, Oscar. *The Importance of Being Earnest*. New Delhi: General Press, 2018.
Shakespeare, William. *Hamlet*. Penguin Books, 1980.

*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR

Semester VI (Paper XIV) (DSE – E138)

MODULE V

Types of Drama

MODULE VI

Comedy as a Form

MODULE VII

Nagmandala – Girish Karnad

MODULE VIII

Harvest – Manjula Padmanabhan

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Karnad, Girish. *Nagmandala*. Oxford University Press, 1990.

Padmanabhan, Manjula. *Harvest*. Delhi: Penguin, 1997.

***Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

Recommended Reading: Semester V and Semester VI

Aasand, Hardin L. *Stage Directions in Hamlet: New Essays and New Directions*. NJ: Fairleigh Dickinson University Press, 2003.

Babu, Munchi Sarat. *Indian Drama*. New delhi: Prestige Books, 1997.

Bhatt, S.K. *Indian English Drama: A Critical Study*. New Delhi: Sterling Publishers Pvt. Ltd., 1987.

Bloom, Harold. *The Importance of Being Earnest: Modern Critical Interpretations*. Chelsea House Pub., 1988.

Driver, T.F. *Drama and History*. New York: Columbia University Press, 1967.

Ddiya, Jaydipsinh. (ed.) *The Plays of Girish Karnad: Critical Perspectives*. New Delhi: Prestige Books, 1999.

Gargy, Balwant. *Folk Theatre of India*. Calcutta: Rupa & Co., 1991.

Gillespie, Michael Patrick. *The Importance of Being Earnest*. (Norton Critical Editions). W.W.Norton and Co., 2006.

Hibbard, G.R. (ed.) *Hamlet*. OUP: 1988.

Hirsh, James. *Shakespeare and the History of Soliloquies*. NJ: Farleigh Dickinson University Press, 2003.

Joshi, R.G. *Myth in Indian Drama*. Delhi: B.R. Publishing Corporation, 1984.

Kumar, Nand. *Indian English Drama: A Study in Myths*. New Delhi: Sarup and sons, 2003.

MacCary, Thomas. *Hamlet: A Guide to the Play*. London: Greenwood Press, 1988.

Martin, James. *The Meaning of the 21st Century*. New York: Riverhead Penguin, 2007.

Priestley, J.B. *The Art of the Dramatist*. London: Heinemann, 1957.

Rajkumar, K. *Socio-Political Realities in Harvest*. Purna:RHI,Mahmul, 2012.

Robertson, Ronald. *Globalization: Social Theory and Global Culture*. London: Sage, 1992.

Sen,B. *The Importance of Being Earnest*. Unique Publishers,2015.

Styan, J.L. *The Elements of Drama*. Cambridge: Cambridge University Press, 1967.

Vaidyanathan, G. *The Importance of Being Earnest*. New Delhi: Narain Publications, 2018.

Worthen, W.B. (ed.). *Anthology of Drama* (Fourth edition). London: Cengage Learning EMEA, 2004.

Shivaji University, Kolhapur
B. A. Part III
Special English
ENGLISH DRAMA (CBCS)
Discipline Specific Elective
Semester V (Paper IX) ((DSE – E13)

PATTERN OF QUESTION PAPER (From June 2020 onwards)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module III and IV**)
- Q.2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module I and II**)
- Q.3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module III and IV**)
- Q.4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module I and II** and two be on **Module III and IV**)
-

ENGLISH DRAMA (CBCS)
Discipline Specific Elective
Semester VI (Paper XIV) (DSE – E138)

PATTERN OF QUESTION PAPER (From June 2020 onwards)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module VII and VIII**)
- Q.2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module V and VI**)
- Q.3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **VII and VIII**)
- Q.4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module V and VI** and two be on **Module VII and VIII**)
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EQUIVALENCE

Old Title	New Title
Understanding Drama	English Drama

Shivaji University, Kolhapur
B. A. Part III Special English
ENGLISH NOVEL (CBCS)

Discipline Specific Elective

Semester V (Paper X) ((DSE – E14) & Semester VI (Paper XV) (DSE – E139)

From June 2020 onwards

Course Objectives:

- To make students understand different forms of novel.
- To enable students to relate novels to their ideological or socio-political contexts.
- To help students to improve their creative and imaginative faculties through the reading of novels.
- To enable students to know about various aspects of the novel.

Course Outcomes:

- Students are able to understand different forms of novel.
- Students are able to relate novels to their ideological or socio-political contexts.
- Students are able to improve their creative and imaginative faculties through the reading of novels.
- Students are able to know about various aspects of the novel.

SEMESTER V (Paper X) (DSE – E14)

MODULE I

Rise and Development of the Novel

MODULE II

Aspects of the Novel

MODULE III

The Old Man and the Sea – Ernest Hemingway

MODULE IV

The Power and the Glory – Graham Greene

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Hemingway, Ernest. *The Old Man and the Sea*. New York: Simon & Schuster, 1952.

Greene, Graham. *The Power and the Glory*. New York: Time Reading Special Edition. 1940, 1962.

*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR

SEMESTER VI (Paper XV) (DSE – E139)

MODULE V

Historical and Psychological Novel

MODULE VI

Satirical Novel and Epistolary novel

MODULE VII

Animal Farm: A Fairy Tale - George Orwell

MODULE VIII

The Guide - R. K. Narayan

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Orwell, George. *Animal Farm: A Fairy Tale*. New York: Signet Classic, 1996.
Narayan, R. K. *The Guide*. US: Viking Press, 1958.

*Note: Semester VI: 10 Marks for internal Evaluation: STUDENTS' GROUP PROJECT
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Suggested Reading: for Semester V and Semester VI

- Auden, W.H. *The Enchafed Flood: The Romantic Econography of the Sea*. New York: Random, 1950.
- Abrams, M. H. *A Glossary of Literary Terms* (8th Edition) New Delhi, Akash Press – 2007
- Bender, Bert. *Sea Brothers: The Tradition of American Sea Fiction from Moby-Dick to the Present*. Philadelphia: University of Pennsylvania Press, 1988.
- Bloom, Harold. *Ernest Hemingway's The Old Man and the Sea: Modern Critical Interpretations*. Cheasea House Publications, 2008.
- Bradbury, Malcolm. *The Novel Today*. Glasgow: F. C. Paperbacks, 1982.
- Brooks and Warren. *Understanding Fiction*. Prentice Hall, 1959.
- Dedria, Bryfonski & Hall, Sharon. *Twentieth Century Literary Criticism: George Orwell*. Michigan: Book Tower, 1979.
- Edel, Leon. *The Psychological Novel: 1900-1950*. Ludhiana: Kalyani, 1997.
- Forster, E. M. *Aspects of Novel*. London. 1949.
- Hynes, Samuel, ed. *Graham Greene: A Collection of Critical Essays*. New Jersey: Prentice Hall, Inc. 1973.
- Jones, David P. *Graham Greene*. Edinburgh: Oliver and Boyd. 1963.
- Kerala, Calling. *From Eric Blair to George Orwell, Biography*. London: Sage, 2003.
- Kermode, Frank. *Sense of an Ending*. OUP, 1967.
- Lall, Pamji. *Graham Greene: The Power and the Glory: A Critical Study*. New Delhi: Roma Brothers India Pvt. Ltd. 2005.
- Lewis, R.W.B. & Conn, Petr J. ed. *Graham Greene: The Power and the Glory: Text and Criticism*. New York: The Viking Press, 1970.
- Lubbock, Percy. *The Craft of Fiction*. London: Jonahan Cape, 1965.
- Matz, Jesse. *The Modern Novel: A Short Introduction*. Oxford Blackwell, 2004.
- Meyers, Jeffery. *George Orwell: The Critical Heritage*. Routledge, 1997.
- Rimmon-Kennan, Shlomith. *Narrative Fiction*. London and New York: Routledge, 2005.
- Roy, Ruby. *A Critical Study of R.K. Narayan's Swami and Friends and The Guide*. Delhi: Kalpaz Publications, 2015.
- Rees, R. J. *Introduction to English Literature*. London: Macmillan, 1966/1968.
- Singh, P.K. *The Novels of R. K. Narayan :A Critical Study*. New Delhi: Atlantic Publishers.
- Stade, George, ed. *Six Contemporary British Novelists*. New York: Columbia University Press, 1976.
- Subramaniam, K.S. *Graham Greene: A Study of Graham Greene's Works*. Bareilly: Prakash Book Depot, 1978.
- Vinson, James, ed. *Contemporary Novelists*. London: St. James Press, 1972.
- Watt, Ian. *Rise of the Novel*. London: Penguin, 1957.
- Woodcock, George. *20th Century Fiction*. London: The Macmillan Press Ltd., 1983.
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Shivaji University, Kolhapur
B. A. Part III
Special English
ENGLISH NOVEL (CBCS)
From June 2020 onwards
PATTERN OF QUESTION PAPER FOR
(Semester V Paper X DSE – E14)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module III and IV**)
- Q.2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module I and II**)
- Q.3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module III and IV**)
- Q.4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module I and II** and two be on **Module III and IV**)
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PATTERN OF QUESTION PAPER FOR
(Semester VI Paper XV DSE – E139)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module VII and VIII**)
- Q.2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module V and VI**)
- Q.3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **VII and VIII**)
- Q.4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module V and VI** and two be on **Module VII and VIII**)
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EQUIVALENCE

Old Title	New Title
Understanding Novel	English Novel

Shivaji University, Kolhapur
B.A. III
English Special
LANGUAGE AND LINGUISTICS (CBCS)
Discipline Specific Elective
Semester V –Paper XI (DSE - E15) & Semester VI – Paper XVI (DSE - E140)
From June 2020 onwards

LANGUAGE AND LINGUISTICS
Semester V –Paper XI (DSE -E 15)

Course Objectives:

- To orient students to the concept of communication.
- To make the students familiar with varieties of the English language.
- To acquaint students with different levels of the study of language.
- To study the basic units of grammar.

Course Outcomes:

- Students know the concept of communication.
- Students are familiar with varieties of the English language.
- Students know different levels of study of the English language.
- Students know basic units of grammar.

Semester V –Paper XI DSE - E 15

MODULE I

Language and Communication

- i. Definitions and characteristics of language
- ii. Human and Animal communication systems (Special reference to Hockett's 7 characteristics of language)

MODULE II

Phonology

MODULE III

Morphology

MODULE IV

Words

***Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR**

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Reference Books :

- Balasubramaniam, T. *A Textbook of English Phonetics for Indian Students*, Delhi: McMillan, 1981.
- Bansal, R.K. & Harrison, J.B., *Spoken English*, Hyderabad: Orient Longman, 2000.
- Hockett, C.F., *A Course in Modern Linguistics*, MacMillan, . 1963.
- Hudson, Richard, *Sociolinguistics*, Cambridge: Cambridge University Press, 1996.
- Jones, Daniel, *English Pronouncing Dictionary*, ELBS Edition.
- Leech et al, *English Grammar Today: a New Introduction*, Hyderabad: McMillan, 2010.
- Lyons, John, *Language and Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1981.
- Quirk, R., Greenbaum, S., Leech, G. & Svartvik, J., *A Comprehensive Grammar of English*, New Delhi: Pearson, 2010.
- Quirk, Randolph & Greenbaum, Sidney, *A University Grammar of English*, New Delhi: Pearson, 2015.
- Radford, A., Atkinson, M., Britain, D., Clahsen, H. & Spencer, A., *Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1999.
- Trask, R. L, *Key Concepts in Language and Linguistics*, London: Routledge, 1999.
- Verma, S.K. & Krishnaswamy, N., *Modern Linguistics*, Hyderabad: Oxford University Press, 1989.
- Velayudhan, S. & Mohanan, K. P., *An Introduction to the Phonetics and Structure of English*, New Delhi: Somaiya Pub. Pvt. Ltd., 1977

QUESTION PAPER PATTERN

From June 2020 onwards

LANGUAGE AND LINGUISTICS (CBCS) Discipline Specific Elective Semester V –Paper XI (DSE - E15)

- Q.1 Objective type
- a) Three term labels (3)
 - b) Transcription of words with primary stress (3)
 - c) Conversion of the given transcriptions into the conventional spellings (2)
- Q.2
- a) Write short notes (2/3) (to be set on **Module I**) (10)
 - b) Morphological Analysis giving labels (2/4) (4)
- Q.3
- a) Identification of word formation/morphological processes (4)
 - d) Identification of word classes (4)
- Q.4. Write short notes (2/4) (2 each to be set on **Module II & IV**) (10)
-

Shivaji University, Kolhapur
B.A. III
English Special
LANGUAGE AND LINGUISTICS (CBCS)
Discipline Specific Elective
Semester VI – Paper XVI (DSE - E140)
From June 2020 onwards

Course Objectives:

- To acquaint students with structures and functions of words and phrases.
- To enable students to know and identify elements and types of clauses.
- To study Subordination and Coordination.
- To study different ways of structuring clauses.

Course Outcomes:

- Students know words and phrases.
- Students know and identify elements and types of clauses.
- Students know types of sentences.
- Students know the different ways of structuring clauses

Semester VI – Paper XVI (DSE - E140)

MODULE V

Phrases

MODULE VI

Clauses

MODULE VII

Subordination and Coordination

MODULE VIII

Basic and Derived Structures

- i) Inversion / Fronting
- ii. Negation
- iii. Interrogation
- iv. Exclamation
- v. Omission of Certain Elements
(Relative Pronouns, Comparative Clauses, Tag Questions)
- vi. Passivisation
- vii. Subject Raising
- viii. Style Transformation

Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Reference Books :

- Crystal, David, *Linguistics*, London: Penguin Books Ltd., 1974.
Hockett, C.F., *A Course in Modern Linguistics*, MacMillan, 1963.
Hudson, Richard, *Sociolinguistics*, Cambridge: Cambridge University Press, 1996.
Leech et al, *English Grammar Today: A New Introduction*, Hyderabad: McMillan, 2010.
Lyons, John, *Language and Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1981.
Palmer, F. G., *Grammar*, London: Penguin Books Ltd., 1973.
Quirk, R., Greenbaum, S., Leech, G. & Svartvik, J., *A Comprehensive Grammar of English*, New Delhi: Pearson, 2010.
Quirk, Randolph & Greenbaum, Sidney, *A University Grammar of English*, New Delhi: Pearson, 2015.
Radford, A., Atkinson, M., Britain, D., Clahsen, H. & Spencer, A., *Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1999.
Verma, S.K. & Krishnaswamy, N., *Modern Linguistics*, Hyderabad: Oxford University Press, 1989.

QUESTION PAPER PATTERN

From June 2020 onwards

LANGUAGE AND LINGUISTICS (CBCS)

Discipline Specific Elective

Semester VI – Paper XVI (DSE - E140)

Q. 1	a) Identify elements of clause (S, P, O, C, A)	(4/6)	(4)
	b) Transformation of sentence (to be set on Module VIII)	(4/6)	(4)
Q.2	a) Write short notes. (2 each to be set on Module V & VI)	(2/4)	(10)
	b) Give form and function labels to the underlined phrases.	(4/6)	(4)
Q.3	a) Write short notes (To be set on Module VII)	(2/3)	(10)
	b) Identify the subordinate clauses and state their form and function.	(4/6)	(4)
Q. 4.	Do as directed. (to be set on Module VIII)	(4/6)	(4)

EQUIVALENCE

OLD TITLE	NEW TITLE
THE STRUCTURE AND FUNCTION OF MODERN ENGLISH	LANGUAGE AND LINGUISTICS

SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962
NAAC 'A' Grade
Syllabus For

Bachelor of Commerce
B.Com. Part-I
CBCS Pattern
Sem-I & Sem-II

Introduced from June 2018 and Onwards

(Subject to the modifications will be made from time to time)

Shivaji University, Kolhapur
B.Com. Part I – Ability Enhancement Compulsory Course
(Compulsory English) (CBCS)
English for Business Communication

Detailed Syllabus
June 2018 onwards

Course Objectives:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language and business competence of the students.

Semester –I (Paper-A)

Module - I

- A) Developing Vocabulary
- B) On Smiles – A. G. Gardiner**

Module - II

- A) Description
- B) The Unknown Citizen - W. H. Auden**

Module - III

- A) Narration
- B) Panch Parameshvar - Premchand**

Module - IV

- A) **Kabuliwala** - Rabindranath Tagore
- B) Offering in the Temple** - Desika Pillai
- C) Felling of the Bunyan Tree** - Dilip Chitre

Division of Teaching hours (Total 60 Periods)

1. Communication Skills: 3 X 12 = 36 periods
2. Reading Comprehension: 6X4 = 24 periods

Pattern of Question Paper

SEMESTER I (Paper – A)

Total Marks: 50

Que. No.	Sub. Que.	Type of Question	Based on Unit	Marks
Q.1	A	Four multiple choice questions with four alternatives to be set.	Prose and poetry units.	04
	B	Answer in one word/phrase/sentence each. (Skimming and scanning questions to be set).	Prose and poetry units.	04
Q.2	A	Answer the following questions in 3 to 4 sentences each (4 out of 6)	Prose and poetry units.	08
	B	Write short notes on the following in about 7 to 8 sentences each (3 out of 5)	Prose and poetry units.	09
Q.3	---	Do as directed. 4 different exercises to be set for 2 marks each.	Module I - A	08
Q.4	A	I) Describing places/daily routine II) Describing objects / persons (5 marks each).	Module II - A Description	10
	B	Question to be set on Narration	Module III - A	07

Shivaji University, Kolhapur
B.Com. Part I – Ability Enhancement Compulsory Course
(Compulsory English) (CBCS)
English for Business Communication

Detailed Syllabus
June 2018 onwards
Semester –II (Paper – B)

Module - V

- A) Business Correspondence
- B) Why does the child Cry – Mulk Raj Anand**

Module - VI

- A) Telephonic Communication
- B) The Necklace - Guy de Maupassant**

Module - VII

- A) English for Specific Purposes
- B) I Thank You God – Bernard Dadie**

Module - VIII

- A) **War** - Luigi Pirandello
- B) **The Cuckoo** - William Wordsworth
- C) **Let Me Not....** - William Shakespeare

Division of Teaching (Total 60 Periods)

1. Communication Skills: 3 X 12 = 36 periods
2. Reading Comprehension: 6X4 = 24 periods

Pattern of Question Paper

SEMESTER II (Paper – B)

Total Marks: 50

Que. No	Sub. Que	Type of Question	Based on Unit	Marks
Q.1	A	Four multiple choice questions with four alternatives to be set.	Prose and poetry units.	04
	B	Answer in one word/phrase/sentence each. (Skimming and scanning questions to be set).	Prose and poetry units.	04
Q.2	A	Answer the following questions in 3 to 4 sentences each (4 out of 6)	Prose and poetry units.	08
	B	Write short notes on the following in about 7 to 8 sentences each (3 out of 5)	Prose and poetry units.	09
Q.3		Questions to be set on Business Correspondence	Module V - A	10
	A	Question on Business / Mass Communication letters (5 marks)		
	B	Question on Social Communication letters. (5 marks)		
Q.4	A	Question to be set on Telephonic Communication	Module VI -A	08
	B	Question to be set on English for Specific Purposes	Module VII-A	07



Estd. 1962
NAAC 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- www.unishivaji.ac.in

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref./SU/BOS/Com & Mgmt./ 6032

Date : 17/06/2019

To,

The Principal
All Affiliated (Commerce & Management) College/Institutions,
Shivaji University, Kolhapur

Subject : Regarding syllabi and equivalence of B. Com. Part-II (Sem. III & IV)
Choice Based Credit System (CBCS) degree programme under the
Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. Com. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

Encl : As above

Copy to,

1. I/c Dean, Faculty of Commerce & Management
 2. Chairman, BOS under Faculty of Commerce & Management
 3. Director, BOEE
 4. Appointment Section
 5. P. G. Admission Section
 6. B. Com. Section
 7. Affiliation Section (U.G./P.G.)
 8. Computer Center/I.T.
 9. Eligibility Section
 10. Distance Education
 11. P.G. Seminar Section
- } for information
- } for information and necessary action.

SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

Faculty of Commerce & Management

Syllabus For

Bachelor of Commerce

B. Com. Part II

(Sem III & IV)

To be implemented from June 2019 onwards.

(Subject to the modifications that will be made from time to time)

Shivaji University, Kolhapur
B.Com (CBCS) Part-II (Semester-III)
Corporate Accounting Paper - I
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of issue and forfeiture of shares and re-issue of forfeited shares, discuss accounting treatment for redemption of preference shares and buyback of shares.
2. Demonstrate accounting for issue of debentures and redemption of debentures.
3. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013.
4. Practice the fundamental accounting process on Tally ERP.

Syllabus Contents

Unit I: Issue and forfeiture of shares, Re-issue of forfeited shares, Redemption of preference shares and Buyback of shares. (15 Periods)

Unit II: Issue and Redemption of Debentures (10 Periods)

Unit III: Preparation of Final Accounts of Companies. (15 Periods)

Unit IV: Practical of Fundamental Computerised Accounting (20 Periods)

- a) Introduction to Tally ERP.9, Technological Advantages, Getting Functional with Tally ERP.9, Tally ERP.9 Start-up, Mouse/Keyboard Conventions, Switching between Screen Areas, Quitting Tally ERP.9, Setting up of Company in Tally ERP.9,
- b) Create a Company- Select a Company, Alter a Company, Shut a Company, Creating Accounting Masters in Tally ERP.9, Chart of Accounts,
- c) Pre-defined Groups of Accounts, Groups- Creating Single Group, Creating Multiple Group, Displaying Group, Altering Group,
- d) Ledgers, Creating Single Ledger, Creating Multiple Ledger, Displaying Ledger, Altering Ledger, Voucher Entry in Tally ERP.9,
- e) Accounting Vouchers- Contra Voucher (F4), Payment Voucher (F5), Receipt Voucher (F6), Journal Voucher (F7), Purchase (F9), Sales (F8), Debit Note (Ctrl + F9), Credit Note (Ctrl + F8),
- f) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,
- g) Accounting Books and Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register and Day Book.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 9) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 10) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 11) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Shivaji University, Kolhapur
B.Com. (CBCS) Part-II (Semester-IV)
Corporate Accounting Paper - II
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of profit/loss prior to incorporation.
2. Compute the value of shares as per distinct methods and differentiate between them.
3. Simulate practice of accounting for liquidation of companies.
4. Practice the store accounting through Tally ERP.

Unit -I: Profit /Loss Prior to Incorporation. (15 Periods)

Unit-II: Valuation of shares: Intrinsic value method, Market value Method (Capitalization of profit and dividend basis) Fair value. **(10 Periods)**

Unit-III: Accounting for Liquidation of companies- Process of Liquidation under Insolvency and Bankruptcy Code, Preparation of Liquidator's Final Statement of Account. **(15 Periods)**

Unit-IV: Store Accounting with Practical using Tally. (20 Periods)

Theory:

- a) Basic Concepts of Store Accounting- Importance of Material Management and Inventory Control, Objectives of Inventory Control System, Functions and Duties of Store-keeper,
- b) Key Terms- Stock items, Category of item, Item Name, Unit of Measurement- Purchase Rate per Unit, Current Stock Quantity, Current Valuation Rate, Opening Stock Quantity, Opening Valuation Rate, Purchase Returns, Sales Returns
- c) Stock Valuation Methods- Source document, Types of Source documents, Purchase Invoice, Goods Received Note, Sales Invoice, Delivery Challan
- d) Tally Reports of Store Accounting- Bill-wise List of Stock Items, Stock Statement, Material Receipts/ Purchases Register, Material Issues/ Sales Register, Material Return Report, Slow Moving Items Report, Fast Moving Items Report.

Practical:

- a) Creating Inventory Masters in Tally.ERP 9, Stock Groups- Creating Single Stock Group, Creating Multiple Stock Group, Displaying Stock Group, Altering Stock Group,
- b) Units of Measure- Simple Units, Creating Simple Units, Displaying Units of Measure, Deleting Units of Measure
- c) Stock Items- Creating Single Stock Items, Creating Multiple Stock Items, Displaying Stock Items, Altering Stock Items,
- d) Voucher Entry in Tally.ERP 9- Purchase Voucher (F9), Sales Voucher (F8), Credit Note Voucher (Ctrl + F8), Debit Note Voucher (Ctrl + F9)
- e) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,

- f) Accounting Books & Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register, Day Book, Statistics,
- g) Inventory Books & Reports- Stock Summary, Stock Item Summary, Stock Group Summary, Exception Reports- Negative Stock, Negative Summary.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 12) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 13) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 14) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 15) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 16) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 17) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 18) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 19) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 20) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 21) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 22) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Nature of Question Paper
B.Com. Part-II
Under CBCS
Subject: Corporate Accounting Paper-I (Semester-III)
Core Course
(Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- | | |
|---|---------|
| a) Question on Theory of Unit-1 Or Question on Theory of Unit-1 | 5 marks |
| b) Question on Problem of Unit-1 Or Question on Problem of Unit-1 | 5 marks |

Q.No.2 Short Answer Questions:

- | | |
|---|---------|
| a) Question on Theory of Unit-2 Or Question on Theory of Unit-2 | 5 marks |
| b) Question on Problem of Unit-2 Or Question on Problem of Unit-2 | 5 marks |

Q.No.3 Questions:

- | | |
|---|----------|
| a) Question on Theory of Unit-3 Or Question on Theory of Unit-3 | 5 marks |
| b) Question on Problem of Unit-3 Or Question on Problem of Unit-3 | 10 marks |

Q.No.4 Short Answer Questions:

- | | |
|---|---------|
| a) Question on Theory of Unit-4 Or Question on Theory of Unit-4 | 5 marks |
|---|---------|

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Nature of Question Paper
B.Com. Part-II
Under CBCS
Subject: Corporate Accounting Paper-II (Semester-IV)
Core Course
(Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- | | |
|---|---------|
| c) Question on Theory of Unit-1 Or Question on Theory of Unit-1 | 5 marks |
| d) Question on Problem of Unit-1 Or Question on Problem of Unit-1 | 5 marks |

Q.No.2 Short Answer Questions:

- | | |
|---|---------|
| c) Question on Theory of Unit-2 Or Question on Theory of Unit-2 | 5 marks |
| d) Question on Problem of Unit-2 Or Question on Problem of Unit-2 | 5 marks |

Q.No.3 Questions:

- | | |
|---|---------|
| c) Question on Theory of Unit-3 Or Question on Theory of Unit-3 | 5 marks |
|---|---------|

d) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

b) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-III)
Fundamentals of Entrepreneurship- Paper-I
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To impart theoretical knowledge of Entrepreneurship
2. To develop Entrepreneurship qualities and skills
3. To acquaint students with Steps involved in the formation of Small Enterprises
4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Unit-I	Entrepreneur:- Evolution, Meaning and Definition, Functions, Qualities of successful entrepreneur, Types of Entrepreneur, Obstacles to become an Entrepreneur, Challenges before existing entrepreneur in modern era.	15 Hours
Unit-II	Entrepreneurship and Entrepreneurship Development: Concept, Definitions, Importance, Theories- Joseph Schumpeter's Theory of Innovation, Hagen's theory of Status Withdrawal, David McClelland's Need for Achievement theory, Knight's Risk Taking theory, Entrepreneurship Development- Concept and Process. Introduction, Functions and Performance of – EDI, MCED And DIC	15 Hours
Unit-III	Micro, Small and Medium Enterprises(MSME): Definition, Importance, Problems of MSME and Remedies, Government Policy and Support, Steps involved in the formation of Small Enterprises- Location, Clearances, Permits required, Formalities, Licensing and Registration Procedure.	15 Hours
Unit-IV	Recent Trends and Concepts in Entrepreneurship: Recent Trends- Start up, Stand up, Skill India, Make in India, Incubation Centre- Concept and Importance. Concepts- Sociopreneur, Edupreneur, Ecopreneur, Netpreneur, Intrapreneur(Only concept and Characteristics)	15 Hours

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-IV)
Fundamentals of Entrepreneurship- Paper-II
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To acquaint students with family business in India
2. To impart conceptual knowledge of Service and Agro Entrepreneurship
3. To aware students about Business Plan and Project Report
4. To inspire the students through successful stories of Entrepreneurs

Unit-I	Family Business: Meaning, Types, Advantages and Disadvantages of Family Business, Challenges before family business in India, Business Succession Planning, Making family business more effective.	15 Hours
Unit-II	Service and Agro Entrepreneurship: A) Service Entrepreneurship- Meaning and Concept, Role of Service sector in National Economy, Opportunities in Service sector. B) Agro Entrepreneurship- Meaning and Concept, Importance, Entrepreneurial Opportunities in Agro Sector, Challenges before Agro Entrepreneurship	15 Hours
Unit-III	Business Plan and Project Report: Meaning and Concept of Business Plan, Key elements of business plan. Meaning, Concept and classification of project. Project for Retail store, Beauty parlor, Oil Mill, Cold Storage, Eco friendly Bag production- Reasons for failure of project.	15 Hours
Unit-IV	Women Entrepreneurship and Successful Entrepreneurs Women Entrepreneur- Concept and causes of limited growth of women entrepreneurs in India. Successful Entrepreneurs- Male- Jeff Bezos(Amazon), Hanmantrao Gaikwad (BVG), Chitale Brothers (Chitale Dairy), Ramdas Mane (Mane Group of Industries) Female- Aditi Gupta (Whisper Girl), Chetana Gala-Sinha (Manadesh Foundation), Vandana Luthra (VLCC),	15 Hours

Note – Industrial visit/ visit to EDP Institute is suggested to acquaint students about entrepreneurial knowledge.

A talk or interaction with entrepreneurial should be arranged.

B.Com.II
Semester III and IV (CBCS Pattern)
Fundamentals of Entrepreneurship Paper I & II
Nature of Question Paper

Instructions:**Total Marks: 50**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write short answers (Any two out of Three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of Three)	10 Marks

Equivalence

Sr.No.	Old Name	New Name
1	Fundamentals of Entrepreneurship Paper - I	Fundamentals of Entrepreneurship Paper - I
2	Fundamentals of Entrepreneurship Paper - II	Fundamentals of Entrepreneurship Paper - II

Reference Books:

1. Dynamics of Entrepreneurial Development and Management- by Vasant Desai
2. Udyojakata- by Prabhakar Deshmukh
3. Entrepreneurship Development in India- by C.B. Gupta and N.P. Shrinivasan
4. Entrepreneurship and Small Business Management- by Shukla M.B.
5. Entrepreneurial Development- by Dr. S.S. Khanka
6. Entrepreneurial Development- by Godron E. and Natrajan K.
7. Entrepreneurial Development- by Taneja Satish and Gupta S.L.
8. Current Trends in Entrepreneurship - by Mohan S. Elangovan R.
9. Project Preparation Appraisal, Implementation- by Prasanna Chandra
10. Formulation of a Project Report- by Vinod Gupta

Shivaji University, Kolhapur

Syllabus of B.Com

(Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM III

Money and Financial System (Paper No – 1)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Learners will be able to explain functions of money and measurement of money supply 2. Learners will understand the banking system and its functioning in India 3. Learners will understand the nature of banking business and business practices 4. Learners will understand the important recent trends in banking system 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Ability to explain monetary system in India 2. Ability to critical thinking on banking business 3. Ability to explain recent trends in Indian Banking 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	Introduction to Money 1.1 Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Blockchain Technology and Digital Currency 1.3 Approaches to the Money supply, RBI's Measures 1.4 Constituents and Factors affecting on Money Supply	13 Lectures
Unit-2:	Introduction to Banking 2.1. Meaning, Evolution and Functions of Commercial Banks 2.2. Types and features of banks - Commercial, Cooperative, Public and Private, Foreign, Payment Banks, Small Finance Banks, Local Area Banks etc 2.3. Principles of Banking Business and its importance 2.4. Process of Credit Creation and Its limitations	15 Lectures
Unit-3:	Banking Business and Practices 3.1. Meaning, Types and Features of Deposits Products of Banks 3.2. Meaning, Types and Features of Loan Products of Banks 3.3. Sources of Funds and Income for Banks 3.4. Changing Nature of Banking Business	17 Lectures
Unit-4:	New Trends and Recent Issues in Indian Banking 4.1 Micro Finance Institutions- Evolution, Functions and Importance 4.2 Types, Advantages and Disadvantages of Bank Mergers 4.3 Licensing and functioning of Payment Banks Small Finance Banks 4.4 Meaning, Causes and Remedies for NPA, Prompt Correctives Action	15 Lectures
Note: Bank visits and case studies on banking business should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin (2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015), Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi. 		

EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - I)	Money and Financial System (Paper - I)

Nature of question paper for semester III and IV (Paper No. I & II)

Attempt any five questions.

Total marks 50

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 10 |
| Q2. Broad question | 10 |
| Q3. Broad question | 10 |
| Q4. Broad question | 10 |
| Q5. Broad question | 10 |
| Q6. Broad question | 10 |
| Q7. Write short notes (any two out of three) | 10 |

Shivaji University, Kolhapur
Syllabus of B.Com
 (Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM IV

Money and Financial System (Paper No – 2)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Students will be able to use e-banking services 2. Students will be able explain working of RBI in India 3. Students will be able to provide consultancy and guidance for investment in financial markets 4. Students will be able to explain the business practices of NBFCs and AIFI 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Use of E-banking services 2. Able to provide Financial consultancy 3. Critical thinking about NBFCs and their effects 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	E-Banking Services 1.1 Meaning and features of E-Banking, Various Internet Banking Services 1.2 Credit and Debit Card : Features, importance & precautions 1.3 NEFT, RTGS, IMPS & Cheque Truncation System 1.4 Mobile Banking - Features, different Mobile Apps and Importance	17 Lectures
Unit-2:	Reserve Bank of India 2.1 Organizational Structure and Functions of RBI 2.2 Meaning and Objectives Monetary Policy 2.3 Instruments of Monetary Policy 2.4 Monetary Policy Committee; Issue of RBI's Autonomy & Section-7 of RBI Act 1934	12 Lectures
Unit-3:	Financial Markets 3.1 Structure and Importance of Financial System 3.2 Features and structure of Money Market in India, Role of RBI 3.3 Features and structure of Capital Market in India, Role of SEBI 3.4 Reforms in Indian Money Market and Capital Market	17 Lectures
Unit-4:	All India Financial Institutes and NBFCs 4.1 Administrative Structure, Functions and Role of NABARD and SIDBI 4.2 Administrative Structure, Functions and Role of NHB and EXIM Bank 4.3 Meaning, Features, Types and Growth of NBFCs 4.4 Mutual Fund - Meaning, Types and Importance	15 Lectures
Note: Visits to financial institutes and financial consultancy firms should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin(2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015),Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Gupta, L.C (1997),Stock Exchange Trading in India; Society for Capital Market Research and Development 6. Sethi Jyotsna and Bhatia Nishwan (2003),Elements of Banking and Insurance, Prentice Hall of 		

<p>India, New Delhi</p> <p>7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited</p> <p>8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.</p>
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EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - II)	Money and Financial System (Paper - II)

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus B.COM.
SEMESTER - III
MACRO ECONOMICS – PAPER- I
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

- 1 The macro variables and components of macro economics
- 2 The relevance of national income concepts and its applications in economic policy making.
- 3 Changing value of money and its impacts on economy.
- 4 The output and employment generation process through investment and consumption.

UNIT -1	Introduction to Macro Economics 1.1 Meaning, Nature and Scope 1.2 Significance of Macro Economics 1.3 Limitations of Macro Economics 1.4 Macro Economic Variables	15
UNIT -2	National Income 2.1 Meaning and concepts- GDP,GNP,NNP, Personal and Disposable income, Per capita Income, National income at current and constant prices. 2.2 Methods of computing National Income- Product, Income and Expenditure methods 2.3 Difficulties in computing National Income 2.4 Applications of National Income Data	15
UNIT -3	Value of Money 3.1 Concept of Value of Money 3.2 Quantity Theory of Money-, Transaction Approach, Cash Balance Approach 3.3 Inflation-Causes of Inflation, Inflation and interest rates, Social cost of Inflation, Remedies to control of inflation. 3.4 Index Number – Meaning, Construction of Simple and Weighted Index Numbers.	15
UNIT -4	Output and Employment 4.1 J.B. Say's Law of Market 4.2 Keynesian Theory of Employment 4.3 Consumption Function - Concept and Types, Factors influencing consumption function 4.4 Investment Function- Marginal Efficiency of Capital, Investment Multiplier	15

References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, Harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, George Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewett K.K., (2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, Tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc. Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd. New Delhi
17. Lekhi R.K. Public Finance, (2015) Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard, (2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laxminarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P.(2016), Public Finance, Jayprakash Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the paper

Title of Old Paper	Title of New Paper
Business Economics Paper III	Macro Economics Paper I

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus
B.COM.
SEMESTER - IV
MACRO ECONOMICS – PAPER- II
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

1. The trade cyclical phenomenon in the economy and they will be able to take practical decisions at their business level in future.
2. Public finance system of state and its impact on economy and citizens of the nation.
3. The trade and business practices through international trade theories and other relevant concepts.
4. The international monetary exchange system and determination of rate exchange.

UNIT -1	Trade Cycles 1.1 Meaning Features and Types 1.2 Phases of Trade Cycles 1.3 Theories of Trade Cycles – Hawtrey and Schumpeter 1.4 Control of Trade Cycles	15
UNIT -2	Public Finance 2.1 Meaning, Nature and Scope, The Principle of Maximum Social Advantage 2.2 Public Revenue- Meaning, Tax Revenue-Direct and Indirect Taxes - Merits and Demerits, Concept of Goods and Service Tax (GST), Non-Tax Revenue Sources 2.3 Public Expenditure- Causes of growth and effects 2.4 Public Debt – Forms and Effects, Deficit Financing- Objectives and limitations.	15
UNIT -3	International Trade 3.1 Concept of Trade, Internal and International Trade 3.2 Advantage and Disadvantage of International Trade, Ricardian Theory of International Trade, Terms of Trade – Meaning, Types and its influencing factors. 3.3 Balance of Payments – Causes of disequilibrium, Measures to correct disequilibrium. 3.4 Concepts of Free Trade and Protective Trade	15
UNIT 4	Rate of Exchange 4.1 Concept of Rate of Exchange 4.2 Types – Fixed, Flexible , Spot and Future rate of exchange 4.3 Purchasing Power Parity Theory	15

4..4 Modern Theory of rate of exchange

References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, Georg Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewtt K.K.,(2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jaypraksh Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the papers

Title of Old Paper	Title of New Paper
Business Economics Paper IV	Macro Economics Paper II

Nature of Question Paper for paper III and IV**Total Marks: 50****Attempt any five questions out of seven**

- | | |
|--|----|
| Q.1 Write short answers (Any two out of three) | 10 |
| Q.2 Broad question | 10 |

Q.3 Broad question	10
Q.4 Broad question	10
Q.5 Broad question	10
Q.6 Broad question	10
Q.7 Write short notes (Any two out of three)	10

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)
June 2019 Onwards

Course Objectives:

- To enable the students to develop communication skills in English, both oral and written.
- To equip the students with the language skills for use in their personal, academic and professional lives.
- To develop the students essential employability skills.
- To help the students to enter the job market with confidence and the ability to work effectively.
- To help the students to learn and practice both language and soft skills.
- To encourage the active involvement of students in learning process.
- To enable the students to cultivate a broad, human and cultured outlook.

CONTENTS
Semester III (Paper C)

Module I

- A) Oral Skills
- B) Phenomenal Woman – **Maya Angelou**

Module II

- A) Conversation Skills
- B) The Childless One – **Jai Nimbkar**
- C) Those Winter Sundays – **Robert Hayden**

Module III

- A) English for Competitive Examination – I
- B) Four Minutes that get you Hired
–**Connie Brown Glaser and Barbara Steinberg Smalley**

Module IV

- A) Stormy Arrival in South Africa – **Mohandas Karamchand Gandhi**
- B) The Road Not Taken – **Robert Frost**

Semester IV (Paper D)

Module V

- A) E-Communication
- B) Breathing Spaces – **Rana Nayar**

Module VI

- A) English for Competitive Examination – II
- B) My Financial Career – **Stephen Leacock**

Module VII

- A) English for Banking and Industries
- B) Senior Payroll – **William E. Barrett**

Module VIII

- A) The Verger – **Somerset Maugham**
- B) I Am the People, the Mob – **Carl Sandburg**
- C) One Day I Wrote Her Name – **Edmund Spenser**

Pattern of Question Paper

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)

PATTERN OF QUESTION PAPER (June 2019 Onwards)

Semester III (Paper C)

Total Marks 50

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on ORAL SKILLS	Module I A	05
	B.	Question to be set on ORAL SKILLS	Module I A	04
Q.4.	A.	Question to be set on CONVERSATION SKILL	Module II A	04
	B.	Question to be set on CONVERSATION SKILL	Module II A	04
Q.5	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	05
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	04

Semester IV (Paper – D)**Total Marks 50**

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on E-COMMUNICATION	Module V A	05
	B.	Question to be set on E-COMMUNICATION	Module V A	04
Q.4.	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
Q.5.	A.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	05
	B.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	04

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – III)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-I)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Explain the scope of statistics in business, perform classification and tabulation, and represent the data by means of simple diagrams and graphs.
2. Explain and apply sampling techniques in real life.
3. Summarize data by means of measures of central tendency and dispersion.
4. Explain the merits and demerits of various measures of central tendency and dispersion.
5. Perform analysis of bivariate data using simple correlation and simple linear regression.

Unit 1: Introduction to Statistics

(15)

- 1.1 Meaning of Statistics, Scope of Statistics in business.
- 1.2 Primary and secondary data, Discrete and continuous variables, Classification and its basis, Frequency and frequency distribution, Tabulation.
- 1.3 Diagrammatic representation: pie-chart, simple bar diagram, Graphical representation: histogram, ogive curves, Numerical problems.
- 1.4 Sampling: Definitions of population, sample, sampling, and census, Principle steps in sample survey, Advantages of sampling over census, Methods of sampling: simple random sampling (with and without replacement), stratified random sampling.

Unit 2: Measures of Central Tendency

(15)

- 2.1 Concept of central tendency, Requirements of a good average.
- 2.2 Arithmetic mean (A. M.): Definition, Properties of A. M. (without proof), Combined A. M., Merits and demerits, Numerical problems.
- 2.3 Median and quartiles: Definitions, Merits and demerits of median, Numerical problems.
- 2.4 Mode: Definition, Merits and demerits, Empirical relation among mean, median, and mode, Numerical problems.

Unit 3: Measures of Dispersion

(15)

- 3.1 Concept of dispersion, Requirements of a good measure of dispersion, Absolute and relative measures of dispersion.
- 3.2 Range, Coefficient of range, Merits and demerits of range, Numerical problems.
- 3.3 Quartile deviation (Q. D.), Coefficient of Q. D., Merits and demerits of Q. D., Numerical problems.
- 3.4 Standard deviation (S. D.), Coefficient of S. D., Coefficient of variation, Variance, Merits and demerits of S. D., Numerical problems.

Unit-4: Analysis of Bivariate Data: Correlation and Regression**(15)**

- 4.1 Concept of correlation, Types of correlation.
- 4.2 Methods of studying correlation: Scatter plot, Karl Pearson's correlation coefficient (r), Interpretation of r (with special cases $r = -1, 0,$ and 1), Spearman's Rank correlation coefficient (R), Numerical problems on computation of r and R (with and without ties) for ungrouped data.
- 4.3 Concept of regression.
- 4.4 Lines of regression, regression coefficients, relation between correlation coefficients and regression coefficient, Numerical problems on ungrouped data.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – IV)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-II)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Compute unconditional and conditional probabilities and apply laws of probabilities.
2. Identify the applications of Binomial and normal distributions.
3. Measure trend and seasonal variations in time series data.
4. Compute and interpret simple and weighted index numbers.
5. Construct and apply variable and attribute control charts.

Unit 1: Probability and Probability Distributions (15)

- 1.1 Definitions of random experiment, sample space, event, equally likely events, mutually exclusive events, independent events, Classical definition of probability.
- 1.2 Definition of conditional probability, Addition and multiplication laws of probability (without proof), Numerical problems (without use of permutation and combination).
- 1.3 Binomial distribution: Probability mass function, Mean and variance (without proof), Simple numerical problems to find probability and parameters.
- 1.4 Normal distribution: Probability density function, Mean and variance (without proof), Properties of normal curve, Standard normal distribution, numerical problems to find probabilities for given area under standard normal curve.

Unit 2: Time Series Analysis (15)

- 2.1 Definition and uses of time series.
- 2.2 Components of time series.
- 2.3 Methods of measuring trend: method of semi-averages, method of moving averages, and method of least squares, Numerical problems.
- 2.4 Measurement of seasonal variations using simple average method, Numerical problems.

Unit 3: Index Numbers (15)

- 3.1 Need, meaning, and uses of index numbers, Applications of index numbers in share market, Price, quantity, and value index numbers.
- 3.2 Simple index numbers by simple aggregate method and simple average of relatives method (using A. M.), Numerical problems.
- 3.3 Weighted index numbers by Laspeyre's, Paasche's, and Fisher's formulae, Numerical problems.
- 3.4 Problems involved in construction of index numbers.

Unit 4: Statistical Quality Control**(15)**

- 4.1 Concept of statistical quality control (SQC), Advantages of SQC, Types of variability: chance cause variability and assignable cause variability.
- 4.2 Shewhart control chart and its construction.
- 4.3 Variable control charts: mean (\bar{X}) and range (R) charts, Numerical problems.
- 4.4 Attributes control charts: control chart for number of defectives (np -chart) for fixed sample size and control chart for number of defects per unit (c -chart), Numerical problems.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper VI
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To understand the process and procedure of the Income Tax Act, 1961
2. To impart theoretical knowledge of Income Tax
3. To acquaint students with post Assessment procedure and TDS provisions and procedure.

Unit – I	Income Tax Payment and fine of interest – a) Advance Tax b) Interest payable under section 234 ABC	10 Hours
Unit – II	Assessment Procedure – Inquiring before Assessment – Assessment U/S 143(1), Regular Assessment of U/S 143(2), Best Judgement Assessment, Income escaped Assessment, issue of notice where income has escaped assessment, Time Limit for notice, Time limit completion of Assessment, Re-assessment	20 Hours
Unit – III	Post Assessment Procedure – a) Refund – who can claim refund, form no 16 for refund, Time limit for claiming refund, refund on appeal interest refund b) Rectification of mistake c) Appeals and revisions – when an assessee can file appeal appellate authorities, procedure for filling appeal, filling appeal, Revision by Income Tax commissioner d) Penalties and Procedure – Procedure for impressing penalties, Waiver of penalty nature of default and panlties impossible.	20 Hours
Unit – IV	TDS provisions and Procedure – including TDS Tax collection of source provision and procedures.	10 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VIII
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of TDS, TCS, Penalties and prosecutions
2. To develop the skills of solving practical problems of TDS and TCS
3. To acquaint students with recent terms and conditions in Income Tax

Unit – I	TDS – Scheme of tax deduction at source, deduction of tax from salaries, interest other than interest on securities, winnings from horse races, from payments to contractors or sub contractors, from insurance commission, from commission or brokerage, from income by way of rent, on purchase of immovable property and on professional fees.	20 Hours
Unit – II	TCS – Scheme of tax collection at source, applicability, persons liable to collect TCS, rates of TCS and relevant provisions.	10Hours
Unit – III	PENALTIES & PROSECUTIONS – Penalties for default in brief, penalty for concealment / under-reporting of Income, procedure for imposition of penalty and time-limit for completion of penalty proceedings.	20 Hours
Unit – IV	PRACTICAL PROBLEMS ON TDS & TCS – Problems on calculation of TDS & TCS	10 Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - Income Tax
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice Income Tax Paper VI (Vocational)	Tax Procedure and Practice Income Tax Paper VI (CBCS)
2	Tax Procedure and Practice Income Tax Paper VIII (Vocational)	Tax Procedure and Practice Income Tax Paper VIII (CBCS)

Reference Books :

1. Students guide to Income Tax - Taxman
2. Direct Tax ready reckoner - Vinod Sighaniya
3. Income Tax - P.M. Herekar

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper V
Title of Paper – GST (SGST, IGST & CGST)
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of GST
2. To help students solve practical problems in GST
3. To acquaint students with the latest concepts and terms in GST.

Unit – I	Schedules under the Act(Schedule I,II and III under GST Act 2017) Levy & Collection of Tax (Scope of supply, Composite & mix supply, levy & collection)	10 Hours
Unit – II	Time & value of supply (Time of supply of goods, Time of supply of service, Value of Taxable supply schedules)	10 Hours
Unit – III	Determination of nature of Supply (Inter state Supply, Intra-state supply, Supplies in territorial water. Sec 7,8,9 of IGST Act) Sec. 10 & 11 of IGST Act Sec-10 Place of Supply of Goods other than supply of goods imported into, or exported from India. Sec. 11 – Place of Supply of Goods imported into or exported from India.	10 Hours
Unit – IV	Basic Problems – Problems to calculate SGST & CGST & Time & Value of supply.	30 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VII
Title of Paper – GST
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To make aware the students regarding new amendments made in the Indirect taxation system of India i.e. GST
2. To give practice approach and implementation of GST provisions
3. To make aware about the key aspects under GST like place of supply of goods and services
4. To enhance the knowledge of students with the practical solutions and case studies under GST.

Unit – I	Composition levy (Conditions, applicability, Composition rate of tax etc. Reverse Charge Mechanism (RCM) – Applicability, Conditions	10 Hours
Unit – II	Input Tax Credit (Eligibility & conditions for taking Input Tax credit apportionment of credit & blocked credit)	20 Hours
Unit – III	Sec 12 - Place of Supply of Goods or services or both. (Place of supply of services, where location of supplies & recipient in India. Sec 13 - Place of Supply of services where location of supplier where location of supplier or location of recipient is outside India	20 Hours
Unit – IV	Basic Problems – Time of supply, value of supply, place of supply & ITC	10Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - GST
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice GST (SGST, IGST & CGST) Paper V(Vocational)	Tax Procedure and Practice GST Paper V (CBCS)
2	Tax Procedure and Practice GST Paper VII (Vocational)	Tax Procedure and Practice Income Tax Paper VII (CBCS)

Reference Books :

1. GST made simple - Taxman
2. A birds eye view - Jain and Jha
3. Basics of GST - Taxman
4. GST guide for students - CA Vivek Agarwal

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part - I

English (Compulsory)

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)

Shivaji University, Kolhapur
B.Sc. Part I Ability Enhancement Compulsory Course (AECC –A)
(Compulsory English) (CBCS)
English for Communication

Detailed Syllabus
June 2018 onwards

Course Objectives:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language and business competence of the students.

Semester –I (AECC –A)
(Paper-A)

Module I

- A) Developing Vocabulary
- B) Technology with a Human Face – E.F. Schumacher
- C) How Beautiful - P. K. Padhy

Module II

- A) Narration
- B) As a Flower I Come - by Sundaram

Module III

- A. Description
- B. I Have a Dream - Martin Luther King

Module IV

- A) The Auspicious Vision- Tagore
- B. The Book - Iftikar Rizvi

Division of Teaching hours (Total 60 Periods)

1. Communication Skills: 3 X 12 = 36 periods
2. Reading Comprehension: 6X4 = 24 periods

Pattern of Question Paper
SEMESTER I (AECC –A)
Paper - A

Total Marks: 50

Que. No	Sub. Que	Type of Question	Based on Unit	Marks
Q.1	A	Four multiple choice questions with four alternatives to be set.	Prose and poetry units.	04
	B	Answer in one word/phrase/sentence each. (Skimming and scanning questions to be set.	Prose and poetry units.	04
Q.2	A	Answer the following questions in three to four sentences each (4 out of 6)	Prose and poetry units	08
	B	Write short notes on the following in about seven to eight sentences each (3 out of 5)	Prose and poetry units	09
Q.3	A B	Questions to be set on Description A) Describing objects/ persons B) Describing places/ Daily Routine	Module III A	05 05
Q.4	A	Question to be set on Developing Vocabulary Do as directed: Four different exercises to be set for 2 marks each.	Module I A	08
	B	Question to be set on Narration	Module II A	07

Shivaji University, Kolhapur
B.Sc. Part I – Ability Enhancement Compulsory Course(AECC –B)
(Compulsory English) (CBCS)
English for Communication

Detailed Syllabus
June 2018 onwards

Course Objectives:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language and business competence of the students.

Semester –II (AECC –B)
(Paper-B)

Module V

- A) Telephonic Communication
- B) Lost Forest - Johannes Jensen
- C) Stopping by Woods - Robert Frost

Module VI

- A) English for Specific Purposes
- B) Putting Data to Effective Use - Satish Tripathi

Module VII

- A) English for Advertising
- B) An Epithet- W.H.Davies

Module VIII

- A) The Golden Touch - Nathaniel Hawthorne
- B) Offering in the Temple - Desika Vinayakam Pillai

Division of Teaching hours (Total 60 Periods)

1. Communication Skills: 3 X 12 = 36 periods
2. Reading Comprehension: 6X4 = 24 periods

Pattern of Question Paper
SEMESTER II (AECC –B)
Paper - B

Total Marks: 50

Que. No	Sub. Que	Type of Question	Based on Unit	Marks
Q.1	A	Four multiple choice questions with four alternatives to be set.	Prose and poetry units.	04
	B	Answer in one word/phrase/sentence each.	Prose and poetry units.	04
Q.2	A	Answer the following questions in three to four sentences each (4 out of 6)	Prose and poetry units	08
	B	Write short notes on the following in about seven to eight sentences each (3 out of 5)	Prose and poetry units	09
Q.3		Questions to be set on		
	A	Telephonic Communication	Module V A	8
	B	English for Advertising	Module VII A	7
Q.4	A	Question to be set on English for Specific Purposes	Module VI A	5
	B	Question to be set on English for Specific Purposes	Module VI A	5

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.Sc Part- III

English (Compulsory)

Syllabus to be implemented from

June, 2020 onwards.

Shivaji University, Kolhapur

B. Sc. III
Compulsory English
Ability Enhancement Compulsory Course (CBCS)
ENGLISH FOR COMMUNICATION
From June 2020 Onwards

Course Objectives:

- To enhance students' communication skills
- To impart employability skills to students
- To prepare students for competitive examinations
- To enable students to acquire professional skills such as media writing
- To enable students to learn manners and etiquettes required at workplace
- To enhance students' reading comprehension skills
- To create interest in English literature among students
- To inculcate human values and ethics in order to enable them to become good citizens of the country

Course Outcomes: After the completion of the course, the students will be able to:

- Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
- Face job interviews confidently and efficiently.
- Acquire soft skills required at workplaces and in real life.
- Learn group behavior and team work.
- Learn to value and respect others' opinions and views and develop democratic attitude.
- Face competitive examinations confidently and efficiently with adequate linguistic confidence.
- Acquire professional skills required in media writing such as writing editorials.
- Learn to appreciate and enjoy reading poetry and prose passages.
- Acquire human values and develop cultured outlook.

SEMESTER V AECC C

MODULE I

- A. Interview Skills
- B. Enterprise - Nissim Ezekiel

MODULE II

- A. E-Communication
- B. The Ant and the Grasshopper – W.S. Maugham

MODULE III

- A. English for Competitive Examinations
- B. The Look-Out Man - Nicholas Bentley

MODULE IV

- A. Forgetting Our Own History - SudhaMurty
- B.(i) The Butterfly – ArunKolatkar
- (ii) For Your Lanes, My Country --Faiz Ahmed Faiz

***Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR**

SEMESTER VI

AECC D

MODULE V

- A. Group Discussion
- B. Evolution - Alexie Sherman Alexie

MODULE VI

- A. Note Making and Note Taking
- B. Gateman's Gift - R. K. Narayan

MODULE VII

- A. Media Writing
- B. Karma - Khushwant Singh

MODULE VIII

- A. Bhaurao in America – P. G. Patil
- B. (i) The Grass is Really Like Me- Kishwar Naheed
- (ii) To Granny – Tejaswini Patil

***Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours

Shivaji University, Kolhapur
B. Sc. III Compulsory English
Ability Enhancement Compulsory Course (CBCS)
ENGLISH FOR COMMUNICATION

PATTERN OF QUESTION PAPER (June 2020 Onwards)

Semester V (Paper C)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q.1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	03
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	03
	C.	Two different Vocabulary Exercises to be set for 1 mark each	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. (2 out of 3)	2 on Prose and 1 on Poetry	04
	B.	Write Short Note on the following in about 7-8 sentences each. (1 out of 2)	1 on Prose and 1 on Poetry	04
Q.3	--	Question to be set on Interview Skills (A or B)	Module I A	08
Q.4	--	Question to be set on E-Communication(A or B)	Module II A	08
Q.5	--	Question to set on English for Competitive Examinations (A or B)	Module III A	08

Semester VI (Paper D)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q.1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	03
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	03
	C.	Two different Vocabulary Exercises to be set for 1 mark each.	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. (2 out of 3)	2 on Prose and 1 on Poetry	04
	B.	Write Short Note on the following in about 7-8 sentences each. (1 out of 2)	1 on Prose and 1 on Poetry	04
Q.3	--	Question to be set on Group Discussion(A or B)	Module V A	08
Q.4	--	Question to be set on Note Making and Note Taking(A or B)	Module VI A	08
Q.5	--	Question to set on Media Writing(A or B)	Module VII A	08

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

Hindi

(Syllabus to be implemented from June, 2018 onwards.)

शिवाजी विश्वविद्यालय, कोल्हापुर (महाराष्ट्र)

हिंदी अध्ययन मंडल

प्रथम वर्ष (कला, वाणिज्य एवं अन्य विद्या शाखा)

GENERIC ELECTIVE COURSE (GEC)

हिंदी (अनिवार्य)

(शैक्षिक वर्ष : 2018–19, 2019–20 तथा 2020–21)

(प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

प्रथम सत्र

प्रश्नपत्र – A : सृजनात्मक लेखन

उद्देश्य :

- हिंदी भाषा तथा व्याकरण का अध्ययन कराना।
- सृजनात्मक लेखन की विविध विधाओं (कविता, कहानी, यात्रावृत्त, रिपोर्ताज, साक्षात्कार, दृश्य-साहित्य, पत्रकारिता) से परिचित कराना।
- सृजनात्मक लेखन के विविध क्षेत्रों का परिचय कराना।
- सृजनात्मक लेखन के विविध क्षेत्रों के महत्त्व तथा उपयोगिता से परिचित कराना।

अध्यापन पद्धति :-

- व्याख्यान विश्लेषण।
- चर्चा-संगोष्ठी।
- संपादकों, उपसंपादकों तथा विद्वानों से साक्षात्कार।
- आई.सी.टी. का प्रयोग।

अध्ययनार्थ विषय :

इकाई –I हिंदी भाषा तथा व्याकरण : सामान्य परिचय

व्याकरण : लिंग, वचन, कारक, विराम चिह्न, वाक्य के प्रकार,
मानक वर्तनी

इकाई –II कविता, कहानी तथा यात्रावृत्त लेखन: स्वरूप, महत्त्व तथा
उपयोगिता ।

कविता, कहानी तथा यात्रावृत्त के क्षेत्र— सामाजिक, राजनीतिक,
सांस्कृतिक ।

इकाई –III रिपोर्ताज और साक्षात्कार लेखन: स्वरूप, महत्त्व तथा उपयोगिता ।

रिपोर्ताज के क्षेत्र— वाणिज्य, विज्ञान, तकनीकी ।

रिपोर्ताज के क्षेत्र— साहित्य तथा सामाजिक ।

इकाई –IV दृश्य साहित्य लेखन तथा पत्रकारिता : स्वरूप, महत्त्व तथा
उपयोगिता ।

दृश्य साहित्य लेखन के क्षेत्र— छायाचित्र, कार्टून (प्रश्नपत्र में
संबंधित मद्दों पर चित्र दिया जाएगा) ।

पत्रकारिता के प्रकार : खेल पत्रकारिता, सिनेमा पत्रकारिता,
ग्रामीण पत्रकारिता ।

प्रश्नपत्र का स्वरूप तथा अंक विभाजन –	अंक
प्रश्न 1 – समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2 – समग्र पाठ्यक्रम पर टिप्पणियाँ (तीन में से दो)	10
प्रश्न 3 – समग्र पाठ्यक्रम पर लघुत्तरी प्रश्न (पाँच में से तीन)	15
प्रश्न 4 – समग्र पाठ्यक्रम पर दीर्घोत्तरी प्रश्न: अ तथा ब – दोनों अनिवार्य (अंतर्गत विकल्प के साथ)	15

संदर्भ ग्रंथ :

- हिंदी भाषा – महावीर प्रसाद द्विवेदी
- हिंदी भाषा – इतिहास और स्वरूप– राजमाठी शर्मा
- मानक हिंदी – ब्रजमोहन
- संक्षिप्त हिंदी व्याकरण – कामता प्रसाद गुरु
- व्यावहारिक हिंदी व्याकरण– डॉ.हरदेव बाहरी
- आधुनिक हिंदी साहित्य का इतिहास– बच्चनसिंह
- साहित्यिक विधाएँ : पुनर्विचार – डॉ.हरिमोहन
- साहित्यिक विधाएँ : सैद्धांतिक पक्ष – डॉ.मधु धवन
- सुगम हिंदी व्याकरण – धर्मपाल शास्त्री
- हिंदी पत्रकारिता : स्वरूप एवं संदर्भ– डॉ.विनोद गोदरे
- व्यावहारिक हिंदी शुद्ध प्रयोग– डॉ.ओमप्रकाश
- व्यावहारिक हिंदी – रवींद्रनाथ श्रीवास्तव, भोलानाथ तिवारी
- खेल पत्रकारिता – सुशील दोशी, सुरेश कौशिक

द्वितीय सत्र

प्रश्नपत्र – B : व्यावहारिक लेखन

उद्देश्य :

- हिंदी के विविध रूपों का परिचय कराना।
 - प्रयोजनमूलक हिंदी का परिचय कराना।
 - पत्राचार का स्वरूप तथा प्रकारों का परिचय कराना।
 - अनुवाद, विज्ञापन और समाचार लेखन से परिचित कराना।
 - व्यावहारिक लेखन का महत्त्व तथा उपयोगिता से परिचित कराना।
-

अध्ययनार्थ विषय :

इकाई –I हिंदी के विविध रूप तथा प्रयोजनमूलक हिंदी : मातृभाषा, संपर्क भाषा, राजभाषा, सर्जनात्मक भाषा।

कार्यालयीन हिंदी, वाणिज्यिक हिंदी, विज्ञापन की हिंदी, वैज्ञानिक तथा तकनीकी साहित्य की हिंदी।

इकाई –II पत्राचार : सामान्य परिचय

रोजगार प्राप्ति हेतु आवेदन पत्र (सरकारी, अर्ध सरकारी तथा गैर सरकारी)।

इकाई –III अनुवाद और विज्ञापन : स्वरूप, प्रकार, महत्त्व, उपयोगिता।

अनुवाद कार्य तथा विज्ञापन लेखन (विज्ञापन से संबंधित)

इकाई –IV समाचार लेखन तथा पत्रकारिता: स्वरूप, उद्देश्य तथा तत्त्व।

समाचार लेखन और पत्रकारिता : संपादन तथा साजसज्जा।

प्रश्नपत्र का स्वरूप तथा अंक विभाजन –	अंक
प्रश्न 1 – समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2 – समग्र पाठ्यक्रम पर टिप्पणियाँ (तीन में से दो)	10
प्रश्न 3 – समग्र पाठ्यक्रम पर लघुत्तरी प्रश्न (पाँच में से तीन)	15
प्रश्न 4 – समग्र पाठ्यक्रम पर दीर्घोत्तरी प्रश्न अ तथा ब – दोनों अनिवार्य	15
– संदर्भ ग्रंथ	

- समाचार एवं प्रारूप लेखन – डॉ.रामप्रकाश, डॉ.दिनेश गुप्त
- प्रशासनिक एवं कार्यालयीन हिंदी – डॉ.रामप्रकाश, डॉ.दिनेश गुप्त
- समाचार संपादन – कमल दीक्षित, महेश दर्पण
- अनुवाद एवं संचार – डॉ. पूरनचंद टंडन
- विज्ञापन कला– डॉ.मधु धवन
- आधुनिक विज्ञापन – प्रेमचंद पातंजलि
- आधुनिक विज्ञापन और जन संपर्क – डॉ.तारेश भाटिया

- व्यावहारिक हिंदी और रचना – डॉ.कृष्णकुमार गोस्वामी
- प्रयोजनमूलक हिंदी विविध आयाम– डॉ.मनोज पांडेय
- व्यावसायिक संप्रेषण – डॉ.अनुपचंद्र पु. भयाणी
- प्रयोजनमूलक हिंदी – डॉ.नरेश मिश्र
- भाषा विज्ञान एवं हिंदी – डॉ.नरेश मिश्र
- प्रामाणिक आलेखन और टिप्पण – प्रो.एम. ए. विराज

शिवाजी विश्वविद्यालय, कोल्हापुर (महाराष्ट्र)

हिंदी अध्ययन मंडल

प्रथम वर्ष कला- हिंदी (विशेष ऐच्छिक)

DISIPLINE SPECIFIC ELECTIVE COURSE (DSEC)

(शैक्षिक वर्ष : 2018-19, 2019-20 तथा 2020-21)

(प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

उद्देश्य :

1. छात्रों की हिंदी साहित्य के प्रति रुचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना।
2. छात्रों को हिंदी के प्रतिनिधि गद्यकारों एवं कवियों से परिचित कराना।
3. छात्रों में हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमताओं को विकसित कराना।
4. निबंध, कहानी, रेखाचित्र, एकांकी, रिपोर्ताज, संस्मरण, व्यंग्य आदि विधाओं के माध्यम से छात्रों का भावात्मक विकास कराना।
5. छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण करना।
6. छात्रों में राष्ट्र के प्रति प्रेम, राष्ट्रीय ऐक्य स्थापना एवं सामाजिक प्रतिबद्धता हेतु राष्ट्रभाषा हिंदी का प्रचार-प्रसार करना।
7. छात्रों की विचार क्षमता तथा कल्पनाशीलता को बढ़ावा देना।

अध्यापन पद्धति :

1. व्याख्यान तथा विश्लेषण।
 2. सस्वर काव्य पाठ, प्रकट वाचन, संवाद।
 3. ग्रंथालयों के माध्यम से संबंधित लेखकों, कवियों की मौलिक कृतियों से छात्रों का परिचय।
 4. दृक-श्राव्य साधनों/माध्यमों का प्रयोग।
 5. संगोष्ठी, स्वाध्याय तथा गुटचर्चा।
 6. पी.पी.टी./भाषा प्रयोगशाला का प्रयोग।
 7. विशेषज्ञों के व्याख्यान, साक्षात्कार तथा प्रश्नावली।
-

पाठ्यपुस्तक – साहित्य जगत्

संपादक एवं प्रकाशक,

शिवाजी विश्वविद्यालय, कोल्हापुर।

प्रथम सत्र : विशेष ऐच्छिक प्रश्नपत्र—I

हिंदी कविता

अध्ययनार्थ पद्यपाठ :

- इकाई –I
1. भिक्षुक – निराला
 2. बालिका का परिचय— सुभद्राकुमारी चौहान
 3. तेरी खोपड़ी के अंदर – नागार्जुन
 4. वसंत आ गया— अज्ञेय

इकाई –II 5. अजीब–सी मुश्किल – कुंवर नारायण

6. पैदल आदमी– रघुवीर सहाय

7. बीस साल बाद – धूमिल

8. घर की याद – राजेश जोशी

इकाई –III 9. हो गई है पीर – दुष्यंतकुमार

10. माँ जब खाना परोसती थी – चंद्रकांत देवताले

11. एकलव्य – किर्ति चौधरी

12. बेजगह – अनामिका

इकाई –IV 13. नया बैंक – मंगलेश डबराल

14. सत्ता – उदय प्रकाश

15. स्त्री मुक्ति की मशाल – रजनी तिलक

16. बाजार – जया जादवानी

प्रश्नपत्र का स्वरूप तथा अंक विभाजन :	अंक
प्रश्न 1 – समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2 – समग्र पाठ्यक्रम पर ससंदर्भ स्पष्टीकरण (तीन में से दो)	10
प्रश्न 3 – समग्र पाठ्यक्रम पर लघुत्तरी प्रश्न (पाँच में से तीन)	15
प्रश्न 4 – समग्र पाठ्यक्रम पर दीर्घोत्तरी प्रश्न अ तथा ब – दोनों अनिवार्य (अंतर्गत विकल्प के साथ)	15

द्वितीय सत्र : विशेष ऐच्छिक प्रश्नपत्र –II

हिंदी गद्य साहित्य

अध्ययनार्थ गद्य पाठ :

- इकाई –I
1. जीवन और शिक्षण (निबंध) – विनोबा भावे
 2. सूरदास (निबंध) – बाबू श्यामसुंदर दास
 3. विज्ञापन युग (निबंध) – मोहन राकेश
- इकाई –II
4. भगत की गत (व्यंग्य) – हरिशंकर परसाई
 5. फुटपाथ के कलाकार (व्यंग्य) – शरद जोशी
 6. गोशाला चारा और सरपंच (व्यंग्य) – शंकर पुणतांबेकर
- इकाई –III
7. पंचलाईट (कहानी) – फणीश्वरनाथ 'रेणु'
 8. चीफ की दावत (कहानी) – भीष्म सहानी
 9. अकेली (कहानी) – मन्नू भंडारी
- इकाई –IV
10. संस्कार और भावना (एकांकी) – विष्णु प्रभाकर
 11. रजिया (रेखाचित्र) – रामवृक्ष बेनीपुरी
 12. किसान के घर से (यात्रा संवाद) – मधु कांकरिया

प्रश्नपत्र का स्वरूप तथा अंक विभाजन :	अंक
प्रश्न 1 – समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2 – समग्र पाठ्यक्रम पर ससंदर्भ स्पष्टीकरण (तीन में से दो)	10
प्रश्न 3 – समग्र पाठ्यक्रम पर टिप्पणियाँ (पाँच में से तीन)	15
प्रश्न 4 – समग्र पाठ्यक्रम पर प्रश्न अ तथा ब – दोनों अनिवार्य (अंतर्गत विकल्प के साथ)	15

संदर्भ ग्रंथ—

1. हिंदी निबंधों का शैलीगत अध्ययन – डॉ.मु.ब.शहा
2. कहानी स्वरूप और संवेदना – राजेंद्र यादव
3. शरद जोशी का व्यंग्य साहित्य – डॉ.सूर्यकांत शिंदे
4. रेणु का कथा साहित्य – सुरेश चंद्र मेहरोत्रा
5. कथाकार भीष्म सहानी – डॉ.कृष्णा पटेल
6. मोहन राकेश और उनका साहित्य – डॉ.कविता शनवारे
7. एकांकीकार विष्णु प्रभाकर – डॉ.संजय चोपड़े
8. हिंदी व्यंग्य परंपरा में शंकर पुणतांबेकर का योगदान – डॉ.अनुपमा प्रभुणे
9. रामवृक्ष बेनीपुरी और उनका साहित्य – डॉ.गजानन चव्हाण
10. हिंदी के आधुनिक प्रतिनिधि कवि – द्वारिकाप्रसाद सक्सेना
11. नागार्जुन की कविता – अजय तिवारी
12. क्रांतिकारी कवि निराला – डॉ.बच्चनसिंह
13. धूमिल की काव्य यात्रा – मंजू अग्रवाल
14. नई कविता के प्रमुख हस्ताक्षर – डॉ.संतोषकुमार तिवारी
15. अज्ञेय की कविता : एक मूल्यांकन – डॉ.चंद्रकांत बांदिवडेकर

शिवाजी विश्वविद्यालय, कोल्हापुर (महाराष्ट्र)

हिंदी अध्ययन मंडल

जून, 2018 से पुनर्रचित पाठ्यक्रम की समकक्षता			
प्रथम वर्ष (कला, वाणिज्य, विज्ञान एवं अन्य विद्याशाखा)			
	हिंदी (आवश्यक)		हिंदी (अनिवार्य) (GEC)
अ.क्र.	पुराना पाठ्यक्रम	अ.क्र.	नया पाठ्यक्रम
1	सत्र - 1 अभ्यासपत्रिका क्र. A प्रयोजनमूलक हिंदी और कहानी साहित्य	1	सत्र - 1 अभ्यासपत्रिका क्र. A सर्जनात्मक लेखन
2	सत्र - 2 अभ्यासपत्रिका क्र. B प्रयोजनमूलक हिंदी और कहानी साहित्य	2	सत्र - 2 अभ्यासपत्रिका क्र. B व्यावहारिक लेखन
बी.ए. भाग - 1			
	हिंदी (ऐच्छिक)		हिंदी (विशेष ऐच्छिक) (DSEC)
1	सत्र - 1 अभ्यासपत्रिका क्र. 1 आधुनिक हिंदी साहित्य	1	सत्र - 1 अभ्यासपत्रिका क्र. 1 हिंदी कविता
2	सत्र - 2 अभ्यासपत्रिका क्र. 2 आधुनिक हिंदी साहित्य	2	सत्र - 2 अभ्यासपत्रिका क्र. 2 हिंदी गद्य साहित्य

शिवाजी विश्वविद्यालय, कोल्हापुर
हिंदी अध्ययन मंडल
द्वितीय वर्ष (कला विद्या शाखा)
Discipline Specific Elective course
हिंदी (ऐच्छिक)
(शैक्षिक वर्ष 2019–20, 2020–21, 2021–22)
(प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल
पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

तृतीय सत्र

प्रश्नपत्र – 3 अस्मितामूलक विमर्श और हिंदी गद्य साहित्य

उद्देश्य –

- कथा साहित्य का स्वरूप, तत्व एवं प्रकारों का अध्ययन कराना।
- समीक्षा मानदंडों के आधार पर कथा साहित्य का अध्ययन कराना।
- कथेतर साहित्य का समीक्षात्मक अध्ययन कराना।
- कथा और कथेतर साहित्य का वर्तमान प्रासंगिकता के साथ अध्ययन कराना।

अध्यापन पद्धति –

- व्याख्यान विश्लेषण।
- संपादकों, उपसंपादकों तथा विद्वानों से साक्षात्कार।
- चर्चा एवं संगोष्ठी।
- आई. सी. टी. का प्रयोग।

पाठ्यपुस्तक – गद्य संचयन – संपादक, हिंदी अध्ययन मंडल, शिवाजी विश्वविद्यालय,
कोल्हापुर, वाणी प्रकाशन, नई दिल्ली.

पाठ्य विषय–

- नारी विमर्श।
- दलित एवं अस्मिता मूलक विमर्श।
- विभाजन की त्रासदी।

- महान चरित्रों का परिचय।
- हिंदी विविध विधाओं का परिचय।

इकाई-I कथा साहित्य -

1. जीती बाजी की हार - मन्नू भंडारी
2. गृह- प्रवेश - मिथिलेश्वर
3. घर की तलाश - राजेंद्र यादव

इकाई-II कथा साहित्य -

4. जॉर्ज पंचम की नाक - कमलेश्वर
5. पहाड - निर्मल वर्मा
6. सिक्का बदल गया - कृष्णा सोबती

इकाई-III कथेतर साहित्य -

7. अकेलापन और पार्थक्य (डायरी अंश) - गजानन माधव 'मुक्तिबोध'
8. घर लौटते हुए (आत्मकथा अंश) - हरिवंशराय बच्चन
9. धरती और धान (जीवनी अंश) - पाण्डेय बैचन शर्मा 'उग्र'

इकाई-IV कथेतर साहित्य -

10. अखबारी विज्ञापन(रेडियो नाटक) - चिरंजीत
11. वकील साहब (रेखाचित्र) - विनय मोहन शर्मा
12. महात्मा गांधी (संस्मरण) - रामकुमार वर्मा

प्रश्नपत्र का स्वरूप तथा अंक विभाजन

		अंक
प्रश्न 1	समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	कथा साहित्य पर ससंदर्भ स्पष्टीकरण (3 में से 2)	10

प्रश्न 3	पूरे पाठ्यक्रम लघुत्तरी प्रश्न (5 में से 3) (कथा साहित्य 2 और कथेतर साहित्य पर 3 प्रश्न)	15
प्रश्न 4	समग्र पाठ्यक्रम पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) (कथा साहित्य 1 और कथेतर साहित्य पर 1 प्रश्न)	15

संदर्भ – ग्रंथ सूची

1. कथा साहित्य के प्रतिमान – डॉ. रोहिताश्व, अमन प्रकाशन, कानपुर।
2. निर्मल वर्मा का कथा साहित्य – डॉ. रघुनाथ शिरगावकर, अमन प्रकाशन, कानपुर।
3. कहानीकार कमलेश्वर : संदर्भ और प्रकृति – डॉ. सूर्यनारायण रणसुभे, विकास प्रकाशन, कानपुर।
4. साठोत्तरी कहानी में परिवार – डॉ. इन्दु विरेन्द्रा, विकास प्रकाशन, कानपुर।
5. साहित्यिक विधाएँ : सैद्धांतिक पक्ष – डॉ. धवन मधु, वाणी प्रकाशन, नई दिल्ली।
6. मन्नू भंडारी के साहित्य में चित्रित समस्याएँ – डॉ.सौ. माधवी जाधव, विद्या प्रकाशन, कानपुर।
7. कहानी स्वरूप और संवेदना— राजेंद्र यादव, नेशनल पब्लिशिंग हाऊस, नई दिल्ली।
8. राजेंद्र यादव के कहानियों में चित्रित समस्याएँ— डॉ. अर्जुन चव्हाण, पूजा पब्लिकेशन, कानपुर।
9. मिथिलेश्वर का कहानी जगत— डॉ. संजय चिंदगे, स्वच्छंद प्रकाशन, कोल्हापुर।
10. मिथिलेश्वर की कहानियों में ग्रामीण यथार्थ —डॉ. वर्षा मिश्र, क्वालीटी बुक्स, कानपुर।
11. साहित्यिक विधाएँ : पुनर्विचार – डॉ. हरिमोहन, वाणी प्रकाशन, नई दिल्ली।
12. डॉ. हरिवंशराय बच्चन का आत्मकथात्मक साहित्य – डॉ. श्रीनिवास, विनय प्रकाशन, कानपुर।

13. गद्य की विविध विधाएँ— डॉ. बापूराव देसाई, विनय प्रकाशन, कानपुर।
 14. राजेंद्र यादव का उखड़े हुए लोग संवेदना एवं शिल्प – डॉ. मोहन सावंत, ए. बी.एस. पब्लिकेशन, वाराणसी।
 15. हिंदी कहानी का समकालीन परिदृश्य – डॉ. वेदप्रकाश अमिताभ, विनय प्रकाशन, कानपुर।
-

शिवाजी विश्वविद्यालय, कोल्हापुर
 हिंदी अध्ययन मंडल
 द्वितीय वर्ष (कला विद्या शाखा)
Discipline Specific Elective course
 हिंदी (ऐच्छिक)
 (शैक्षिक वर्ष 2019–20, 2020–21, 2021–22)
 (प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली
 की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

तृतीय सत्र
 प्रश्नपत्र – 4 हिंदी संतकाव्य तथा राष्ट्रीय काव्यधारा

उद्देश्य –

- छात्रों की हिंदी साहित्य के प्रति रुचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना।
- छात्रों को मध्यकालीन हिंदी कवियों से परिचित कराना।
- छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण करना।
- छात्रों को आधुनिक हिंदी कविता में चित्रित विविध विमर्शों से परिचित कराना।

अध्यापन पद्धति –

1. व्याख्यान तथा विश्लेषण।
2. सस्वर काव्य पाठ, प्रकट वाचन, संवाद।
3. ग्रंथालयों के माध्यम से संबंधित लेखकों, कवियों की मौलिक कृतियों से छात्रों का परिचय।
4. दृक-श्राव्य साधनों/माध्यमों का प्रयोग।

पाठ्यपुस्तक – काव्यामृत, संपादक– हिंदी अध्ययन मंडल, शिवाजी विश्वविद्यालय, कोल्हापुर, वाणी प्रकाशन, नई दिल्ली।

पाठ्य विषय –

1. पठित दोहे एवं पदों की सटीक व्याख्या करना।

2. मध्यकालीन संत कवियों का कार्य उजागर करना ।
3. आधुनिक कविता के सामाजिक संदर्भ स्पष्ट करना ।
4. आधुनिक कविता का समीक्षात्मक विश्लेषण करना ।

इकाई— मध्यकालीन काव्य—

1. कबीर के दोहे – 10
2. सूरदास के पद – 03
3. मीरा के पद – 03

इकाई—II मध्यकालीन काव्य—

4. घनानंद के पद – 03
5. रहीम के दोहे – 10
6. भूषण के पद – 03

इकाई—III आधुनिक हिंदी कविता –

7. तुकडोजी के पद – 02
8. यह तो शर्म की बात है – सुशीला टाकभौरे
9. तीली – उदय प्रकाश

इकाई—IV आधुनिक हिंदी कविता—

10. प्यार – सुधाकर मिश्र
11. गज़ल – हस्तिमल हस्ति
12. लता की शायरी – प्रकाश भोसले

प्रश्नपत्र का स्वरूप तथा अंक विभाजन

		अंक
प्रश्न 1	समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	आधुनिक हिंदी कविता पर ससंदर्भ स्पष्टीकरण (3 में से 2)	10
प्रश्न 3	पूरे पाठ्यक्रम पर लघुत्तरी प्रश्न (5 में से 3) (मध्यकालीन काव्य पर 03, आधुनिक हिंदी कविता पर 02)	15
प्रश्न 4	समग्र पाठ्यक्रम दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) (मध्यकालीन काव्य पर 1 और आधुनिक हिंदी कविता पर 1 प्रश्न)	15

संदर्भ सूची

1. राष्ट्रसंत तुकडोजी के राष्ट्रीय विचार –डॉ. सौ. माधवी जाधव, विद्या प्रकाशन, कानपुर।
2. प्यार का पहला खत (प्रतिनिधि गजले) – हस्तीमल 'हस्ती', वाणी प्रकाशन, नई दिल्ली।
3. मनीप्लांट और फूल– डॉ. सुधाकर मिश्र, नारायण प्रकाशन, वाराणसी।
4. लता की शायरी– प्रकाश रावसाहेब भोसले, अन्नपूर्णा प्रकाशन, कानपुर।
5. 'अनभै' – सं. रतनकुमार पाण्डेय, 31 जुलाई – सितम्बर 2011, (विशेष अंक सुधाकर मिश्र)
6. 'अनभै' – सं. रतनकुमार पाण्डेय जनवरी – जून 2017 (विशेष अंक हस्तीमल 'हस्ती').
7. इक्कीसवीं सदी का हिंदी काव्य – डॉ. सौ. माधवी जाधव, विद्या प्रकाशन, कानपुर।
8. युगदृष्टा राष्ट्रसंत तुकडोजी का राष्ट्रीय जीवन निर्माण में योगदान – डॉ. दिनकर येवलेकर, विनय प्रकाशन, कानपुर।
9. विवके सरिता – राष्ट्रसंत श्री. तुकडोजी महाराज, श्री. गुरुदेव प्रकाशन, अमरावती।
10. हिंदी के प्रतिनिधि कवि – द्वारिकाप्रसाद सक्सेना, हिंदी बुक सेंटर, नई दिल्ली।
11. सुधाकर मिश्र की काव्य संवेदना – डॉ. अवनीश सिंह, विनय प्रकाशन, कानपुर।
12. कुसुम अंसल के काव्य साहित्य में चित्रित नारी – जीवन के विमर्श–डॉ. आर. पी. भोसले, पूजा प्रकाशन, कानपुर।
13. राष्ट्रीय भजनावली – राष्ट्रसंत श्री. तुकडोजी महाराज, श्री. गुरुदेव प्रकाशन, अमरावती।

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DISCIPLINE SPECIFIC ELECTIVE COURSE (DSEC)

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1-100 तक मानक रूप में हिंदी गिनती

भारत की राजभाषा हिंदी देवनागरी लिपि में लिखी हुई होनी चाहिए, लेकिन गिनती अरेबिक अंक (1, 2, 3 u) में होनी चाहिए, देवनागरी (1 , 2, 3 u) में नहीं ।

(परिशिष्ट - 2)

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1. Auditorium -
 2. Ability -
 3. Art gallery -
 4. Classic drama -
 5. Colour photography-
 6. Actor -
 7. Children's song -
 8. Comical song -
 9. Casting director -
 - 10.Puppet -
 - 11.Hero -
 - 12.Clown/ Zony - /
 - 13.Advantage - ,
 - 14.Blue chip company -
 - 15.Broker - ,
 - 16.Bear -
 - 17.Artificial dearness -
 - 18.Black marketing -
 - 19.Bonus -
 - 20.Custom -
 - 21.Currency -
 - 22.Absolute amount -
 - 23.Advance -
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शिवाजी विश्वविद्यालय, कोल्हापुर
 हिंदी अध्ययन मंडल
 द्वितीय वर्ष (कला विद्या शाखा)
Discipline Specific Elective course
 हिंदी (ऐच्छिक)
 (शैक्षिक वर्ष 2019–20, 2020–21, 2021–22)
 (प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली
 की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

चतुर्थ सत्र

प्रश्नपत्र – 6 अस्मितामूलक विमर्श और हिंदी पद्य साहित्य

पाठ्यपुस्तक –

- कितने प्रश्न करूँ (खण्डकाव्य) – ममता कालिया

उद्देश्य –

1. छात्रों को हिंदी कवियों से परिचित कराना।
2. छात्रों में हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमता को विकसित कराना।
3. छात्रों की हिंदी साहित्य के प्रति रुचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना।
4. छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण कराना।

अध्यापन पद्धति –

- व्याख्यान तथा विश्लेषण।
- सस्वर काव्य पाठ, प्रकट वाचन, संवाद।
- ग्रंथालयों के माध्यम से संबंधित कवि की मौलिक कृतियों से छात्रों का परिचय।
- दृक-श्राव्य साधनों/माध्यमों का प्रयोग।

पाठ्य पुस्तक – कितने प्रश्न करूँ (खण्डकाव्य) – ममता कालिया, वाणी प्रकाशन, नई दिल्ली।

पाठ्य विषय –

1. पात्रों की चारित्रिक विशेषताओं को समझाना ।
2. आधुनिक बोध से अवगत कराना ।
3. खण्डकाव्य का समीक्षात्मक विवेचन ।
4. समानता की दृष्टि वृद्धिगत करना ।

इकाई-I ममता कालिया का व्यक्तित्व एवं कृतित्व :-

1. ममता कालिया का जीवन परिचय ।
2. ममता कालिया का व्यक्तित्व का परिचय ।
3. ममता कालिया का कृतित्व ।

इकाई-II

1. ' कितने प्रश्न करूँ' खण्डकाव्य का कथानक ।
2. ' कितने प्रश्न करूँ' खण्डकाव्य में चित्रित पात्र एवं चरित्र चित्रण ।
3. ' कितने प्रश्न करूँ' खण्डकाव्य के संवाद ।

इकाई-III

1. ' कितने प्रश्न करूँ' खण्डकाव्य का देशकाल तथा वातावरण ।
2. ' कितने प्रश्न करूँ' खण्डकाव्य की भाषा-शैली ।
3. ' कितने प्रश्न करूँ' खण्डकाव्य का उद्देश्य ।

इकाई-IV

1. ' कितने प्रश्न करूँ' 'खण्डकाव्य में चित्रित समसामायिकता ।
2. ' कितने प्रश्न करूँ' खण्डकाव्य की शीर्षक की सार्थकता ।
3. ' कितने प्रश्न करूँ' खण्डकाव्य में चित्रित समस्याएँ ।

प्रश्नपत्र का स्वरूप तथा अंक विभाजन

		अंक
प्रश्न 1	' कितने प्रश्न करूँ' खण्डकाव्य पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	' कितने प्रश्न करूँ' खण्डकाव्य पर ससंदर्भ स्पष्टीकरण (3 में से 2)	10
प्रश्न 3	' कितने प्रश्न करूँ' खण्डकाव्य पर लघुत्तरी प्रश्न(5 में से 3)	15
प्रश्न 4	' कितने प्रश्न करूँ' खण्डकाव्य पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	15

संदर्भ सूची

1. कविता के नए प्रतिमान – डॉ. नामवर सिंह
2. कविता का प्रतिसंसार – निर्मला जैन
3. आधुनिक खण्डकाव्यों में युग चेतना – डॉ. एन. डी. पाटील, विनय प्रकाशन, कानपुर।
4. ममता कालिया : व्यक्तित्व एवं कृतित्व – डॉ. फैमिदा बीजापुरे, विनय प्रकाशन, कानपुर।

शिवाजी विश्वविद्यालय, कोल्हापुर
 हिंदी अध्ययन मंडल
 द्वितीय वर्ष (आंतर विद्या शाखा) I.D.S.
 तृतीय सत्र
 प्रयोजनमूलक हिंदी
 प्रश्नपत्र 1
 (शैक्षिक वर्ष 2019–20, 2020–21, 2021–22)
 (प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली
 की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

उद्देश्य –

- हिंदी के व्यावहारिक पक्ष से परिचित कराना।
- वाणिज्यिक व्यवहार में हिंदी भाषा को प्रज्वलित कराना।
- हिंदी में कार्य करने की रुचि विकसित कराना।
- रोजगारोन्मुख शिक्षा प्रदान करना।
- राष्ट्रभाषा के प्रति रुचि उत्पन्न करना।
- कार्यालय और व्यवसाय में हिंदी प्रयोग का कौशल विकास विकसित करना।

अध्ययनार्थ विषय –

इकाई–I कार्यालयीन पत्राचार–

1. नौकरी के लिए आवेदन पत्र।
2. पदाधिकारियों के नाम पत्र।
3. छुट्टी के लिए प्रार्थना पत्र।
4. परिपत्र।

इकाई–II अनुवाद : सैद्धांतिक पक्ष –

1. अनुवाद की परिभाषा।
2. अनुवाद का स्वरूप।
3. अनुवाद की उपयोगिता।
4. अनुवादक के गुण।

इकाई–III समाचार का अनुवाद –

1. समाचार का अनुवाद।

2. अंग्रेजी एवं हिंदी अनुच्छेदों में से किसी एक का अनुवाद।
3. अंग्रेजी से हिंदी में अनुवाद(दो में से एक)
4. हिंदी से अंग्रेजी में अनुवाद (दो में से एक)

इकाई-IV मुद्रित संचार माध्यमों का सामान्य परिचय –

1. दै. समाचार पत्र 2. पत्र-पत्रिकाएँ
3. विज्ञापन 4. उद्घोषणा का सामान्य परिचय।

प्रश्नपत्र का स्वरूप तथा अंक विभाजन

		अंक
प्रश्न 1	समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न।	10
प्रश्न 2	इकाई I पर पत्रलेखन प्रश्न(3 में से 2)	10
प्रश्न 3	इकाई IV पर लघुत्तरी प्रश्न(3 में से 2)	15
प्रश्न 4	(अ) इकाई II पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10
	(आ) इकाई III पर अनुवाद लेखन। (हिंदी और अंग्रेजी अनुच्छेदों में से किसी एक का अनुवाद।)	05

❖ संदर्भ ग्रंथ सूची –

- हिंदी और उसका व्यवहार – डॉ. व्ही. के. मोरे – फडके प्रकाशन, कोल्हापुर।
- पत्रकारिता के सिद्धांत – डॉ. रमेशचंद्र त्रिपाठी, नमन प्रकाशन, नई दिल्ली।
- अनुवाद चिंतन – डॉ. अर्जुन चव्हाण, अमन प्रकाशन, कानपुर।
- प्रयोजनमूलक हिंदी – डॉ. विनोद गोदरे, वाणी प्रकाशन, नई दिल्ली।
- आधुनिक जनसंचार और हिंदी – प्रो. हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली।
- प्रयोजनमूलक हिंदी व्याकरण एवं पत्रलेखन – डॉ. बापूराव देसाई, विनय प्रकाशन, कानपुर।
- रोजगारोन्मुख हिंदी – डॉ. गणेश ठाकुर, विजय प्रकाशन, कानपुर।

शिवाजी विश्वविद्यालय, कोल्हापुर
 हिंदी अध्ययन मंडल
 द्वितीय वर्ष (आंतर विद्या शाखा)I.D.S.
 चतुर्थ सत्र
 प्रयोजनमूलक हिंदी
 प्रश्नपत्र 2
 (शैक्षिक वर्ष 2019–20, 2020–21, 2021–22)
 (प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली
 की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।)

उद्देश्य –

- हिंदी के व्यावहारिक पक्ष से परिचित कराना।
- वाणिज्यिक व्यवहार में हिंदी भाषा को प्रज्वलित करना।
- हिंदी में कार्य करने की रुचि विकसित करना।
- रोजगारोन्मुख शिक्षा प्रदान करना।
- राष्ट्रभाषा के प्रति रुचि उत्पन्न करना।
- कार्यालय और व्यवसाय में हिंदी प्रयोग का कौशल विकास विकसित करना।

अध्ययनार्थ विषय –

इकाई–Iसंगणक का परिचय।

1. संगणक का सामान्य परिचय।
2. संगणक के उपयोग।
3. इंटरनेट सेवा। (प्रयोग विधि)
4. ई-मेल सेवा(प्रेषण एवं प्राप्ति)

इकाई–IIवृत्तांत लेखन।

1. महाविद्यालयीन समारोह का वृत्तांत लेखन।
2. सामाजिक समारोह का वृत्तांत लेखन।
3. प्राकृतिक आपदाओं का वृत्तांत लेखन।
4. दुर्घटनाओं का वृत्तांत लेखन।

इकाई-III वाणिज्य पत्राचार ।

1. पूछताछ के पत्र ।
2. क्रयादेश के पत्र ।
3. संदर्भ के पत्र ।
4. शिकायती पत्र ।

इकाई-IV इलेक्ट्रॉनिक संचार माध्यम का सामान्य परिचय ।

1. रेडिओ
2. दूरदर्शन
3. टेलीकॉफ़ेंस
4. डाक्यूमेंट्री का सामान्य परिचय । (तकनीकी जानकारी अपेक्षित नहीं है ।)

प्रश्नपत्र का स्वरूप तथा अंक विभाजन

		अंक
प्रश्न 1	समग्र पाठ्यक्रम पर दस बहुविकल्पी प्रश्न ।	10
प्रश्न 2	इकाई I विभाग पर प्रश्न (3 में से 2)	10
प्रश्न 3	इकाई II विभाग पर लघुत्तरी प्रश्न (3 में से 2)	15
प्रश्न 4	(अ) इकाई III पर पत्रलेखन (3 में से 2)	08
	(आ) इकाई IV पर प्रश्न (3 में से 2)	07

❖ संदर्भ ग्रंथ सूची –

- हिंदी और उसका व्यवहार – डॉ. व्ही. के. मोरे – फडके प्रकाशन, कोल्हापुर ।
- पत्रकारिता के सिद्धांत – डॉ. रमेशचंद्र त्रिपाठी, नमन प्रकाशन, नई दिल्ली ।
- अनुवाद चिंतन – डॉ. अर्जुन चव्हाण, अमन प्रकाशन, कानपुर ।
- प्रयोजनमूलक हिंदी – डॉ. विनोद गोदरे, वाणी प्रकाशन, नई दिल्ली ।
- आधुनिक जनसंचार और हिंदी – प्रो. हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली ।
- प्रयोजनमूलक हिंदी विविध परिदृश्य – डॉ. रमेशचंद्र त्रिपाठी, विनय प्रकाशन, कानपुर ।

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शिवाजी विश्वविद्यालय, कोल्हापुर
D.S.E.C.

बी.ए.भाग-2 (हिंदी)

C.B.C.S.

जून 2019 पासून सुरु होणा-या सुधारित अभ्यासक्रम समकक्षता

अ.क्र.	जुना अभ्यासक्रम	नवीन अभ्यासक्रम
1	तीसरे सत्र अभ्यासपत्रिका क्रमांक 3 आधुनिक गद्य साहित्य	तीसरे सत्र अभ्यासपत्रिका क्रमांक 3 अस्मितामूलक विमर्श और हिंदी गद्य साहित्य
2	तीसरे सत्र अभ्यासपत्रिका क्रमांक 4 मध्यकालीन एवं आधुनिक काव्य	तीसरे सत्र अभ्यासपत्रिका क्रमांक 4 हिंदी संतकाव्य तथा राष्ट्रीय काव्य
3	चौथे सत्र अभ्यासपत्रिका क्रमांक 5 आधुनिक गद्य साहित्य	चौथे सत्र अभ्यासपत्रिका क्रमांक 5 हिंदी में रोजगार के अवसर
4	चौथे सत्र अभ्यासपत्रिका क्रमांक 6 आधुनिक काव्य	चौथे सत्र अभ्यासपत्रिका क्र. 6 अस्मितामूलक विमर्श और हिंदी पद्य साहित्य
5	प्रश्नपत्र -1,2 I.D.S. प्रयोजनमूलक हिंदी	प्रश्नपत्र -1,2 I.D.S. प्रयोजनमूलक हिंदी

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V, VI

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020-21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।

सत्र-V

- प्रश्नपत्र- VII : विधा विशेष का अध्ययन।
प्रश्नपत्र- VIII : साहित्यशास्त्र ।
प्रश्नपत्र- IX : हिंदी साहित्य का इतिहास।
प्रश्नपत्र- X : प्रयोजनमूलक हिंदी ।
प्रश्नपत्र- XI : भाषा विज्ञान और हिंदी भाषा ।

सत्र-VI

- प्रश्नपत्र- XII : विधा विशेष का अध्ययन।
प्रश्नपत्र- XIII : साहित्यशास्त्र और हिंदी आलोचना।
प्रश्नपत्र- XIV : हिंदी साहित्य का इतिहास।
प्रश्नपत्र- XV : प्रयोजनमूलक हिंदी ।
प्रश्नपत्र- XVI : भाषा विज्ञान और हिंदी भाषा ।

सत्र V, VI : परीक्षा में पाँच प्रश्नपत्र 50 अंकों का होगा, जिसमें 40 अंक प्रश्नपत्र के और 10 अंक अंतर्गत मूल्यांकन के लिए है। जिसमें सेमिनार, मौखिकी, (प्रोजेक्ट) परियोजना, गृहकार्य, में से एक देना अनिवार्य है।

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र -V प्रश्नपत्र- VII

विधा विशेष का अध्ययन

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

पाठ्यक्रम

उद्देश्य :

- 1.नाटककार कुसुमकुमार की बहुमुखी प्रतिभा से परिचित कराना।
- 2.नाटककार कुसुमकुमार के साहित्य से परिचित कराना।
- 3.नाटककार कुसुमकुमार की विचारधारा से परिचित कराना।
- 4.नाटककार कुसुमकुमार के निर्धारित ग्रंथ का सूक्ष्म आलोचनात्मक अध्ययन कराना।
- 5.लेखिका के नाटककार के रूप में साहित्यिक स्थान को निर्धारित कराना।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

पाठ्यपुस्तक

‘दिल्ली ऊँचा सुनती है’ (नाटक) –कुसुमकुमार

किताबघर प्रकाशन, अन्सारी रोड, दरियागंज,
नई दिल्ली-110002

इकाई 1 कुसुमकुमार का जीवन परिचय, व्यक्तित्व, कृतित्व एवं नाटककार कुसुमकुमार का सामान्य परिचय ।

इकाई 2 ‘दिल्ली ऊँचा सुनती है’– कथावस्तु एवं शीर्षक की सार्थकता ।

इकाई 3 ‘दिल्ली ऊँचा सुनती है’– पात्र एवं चरित्र –चित्रण, संवाद, देशकाल वातावरण ।

इकाई 4 ‘दिल्ली ऊँचा सुनती है’– भाषा शैली, उद्देश्य अभिनेयता एवं समस्याएँ ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	‘दिल्ली ऊँचा सुनती है’ पर ससंदर्भप्रश्न (3 में से 2)	10
प्रश्न 3	‘दिल्ली ऊँचा सुनती है’ वं कुसुमकुमार पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 4	‘दिल्ली ऊँचा सुनती है’ पर दीघोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

संदर्भ ग्रंथ सूची–

- डॉ.कुसुमकुमार एक प्रयोगधर्मी नाटककार– डॉ.दत्तात्रय मोहिते, विद्या प्रकाशन, ‘सी’ 449, गुजैनी, कानपुर–208022
- स्वांतत्र्योत्तर हिंदी नाटक–डॉ.रंजन तिवारी, विद्या प्रकाशन, कानपुर–208022
- हिंदी महिला नाटककार–डॉ.भगवान जाधव, विद्या प्रकाशन, कानपुर–208022

सत्र –VI प्रश्नपत्र– XII

उद्देश्य :

- उपन्यास के तात्विक स्वरूप का परिचय देना ।
- उपन्यासकार के कृतित्व एवं कृतित्व से परिचित कराना ।
- रचना विशेष का महत्त्व समझने एवं मूल्यांकन करने की क्षमता बढ़ाना ।
- रचना के आस्वादन एवं समीक्षा की क्षमता विकसित कराना ।
- पाठ्यक्रम में निर्धारित उपन्यास की प्रासंगिकता से अवगत कराना ।

पाठ्यपुस्तक –अंतिम साक्ष्य (उपन्यास)–चंद्रकांता

अमन प्रकाशन, 104 A/80 सी रामबाग, कानपुर– 12

इकाई 1. चंद्रकांता का जीवन परिचय, व्यक्तित्व, कृतित्व एवं उपन्यासकार चंद्रकांता का सामान्य परिचय ।

इकाई 2. 'अंतिम साक्ष्य'–कथावस्तु एवं शीर्षक की सार्थकता ।

इकाई 3. 'अंतिम साक्ष्य'–पात्र एवं चरित्र –चित्रण तथा संवाद ।

इकाई 4. 'अंतिम साक्ष्य'–देशकाल तथा वातावरण, भाषा शैली, उद्देश्य एवं समस्याएँ ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	'अंतिम साक्ष्य' पर ससंदर्भप्रश्न (3 में से 2)	10
प्रश्न 3	'अंतिम साक्ष्य' एवं चंद्रकांता पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 4	'अंतिम साक्ष्य' पर दीघोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

संदर्भ ग्रंथ सूची –

- चद्राकांता का कथा साहित्य–समकालीन परिवेश तथा संदर्भ–डॉ.अमोल पालकर, विद्या प्रकाशन, कानपुर–208022
- चद्राकांता का कथा साहित्य–डॉ.जगदीश चव्हाण, विद्या प्रकाशन, कानपुर–208022

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र -V प्रश्नपत्र- VIII

साहित्यशास्त्र

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

- 1) साहित्य – निर्मिती की प्रक्रिया का बोध कराना।
- 2) साहित्य – काव्य के विभिन्न अंगों, भेदों से परिचित कराना।
- 3) साहित्य – काव्य की नवीन विधाओं से परिचित कराना।
- 4) समीक्षा सिद्धांतों से परिचित कराना।
- 5) साहित्य – काव्य के तत्वों से परिचित कराना।
- 6) अलंकारों से परिचित कराना।

अध्यापन पद्धति –

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- भारतीय एवं पाश्चात्य साहित्यशास्त्र का सैद्धांतिक एवं अनुप्रयोग की दृष्टि से।
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई 1 काव्य साहित्य – स्वरूप, तत्व, प्रयोजन।

इकाई 2 काव्य के प्रकार, काव्य गुण, काव्य दोष।

इकाई 3 रस – स्वरूप, रस के अंग, रस के भेद।

इकाई 4 अलंकार – शब्दालंकार – अनुप्रास, वक्रोक्ति, यमक, वीप्सा

अर्थालंकार – उपमा, रूपक, अतिशयोक्ति, विभावना।

(केवल लक्षण एवं उदाहरण अपेक्षित)

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	इकाई 2 पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 3	इकाई 4 पर टिप्पणियां (3 में से 2)	10
प्रश्न 4	इकाई 1 और 3 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

सत्र-VI प्रश्नपत्र-XIII
साहित्यशास्त्र और हिंदी आलोचना

इकाई 1 महाकाव्य – स्वरूप, भारतीय तत्व ।

प्रगीत – स्वरूप, भेद ।

गजल – स्वरूप, प्रमुख अंग ।

इकाई 2 एकाकी – स्वरूप एवं तत्व ।

कहानी – स्वरूप एवं तत्व ।

उपन्यास – स्वरूप एवं तत्व ।

इकाई 3 रेखाचित्र – स्वरूप एवं विशेषताएँ ।

आत्मकथा – स्वरूप एवं विशेषताएँ ।

यात्रावृत्त – स्वरूप एवं विशेषताएँ ।

इकाई 4 आलोचना का स्वरूप ।

आलोचना के गुण ।

आलोचना के प्रकार –

- 1) व्याख्यात्मक आलोचना ।
- 2) तुलनात्मक आलोचना ।
- 3) मनोवैज्ञानिक आलोचना ।
- 4) ऐतिहासिक आलोचना ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	इकाई 2 पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 3	इकाई 4 पर टिप्पणियाँ (3 में से 2)	10
प्रश्न 4	इकाई 1 और 3 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

संदर्भ ग्रंथ सूची

- 1) काव्यशास्त्र – भगीरथ मिश्र ।
- 2) शास्त्रीय समीक्षा के सिद्धांत – डॉ.गोविंद त्रिगुणायत ।
- 3) काव्य के रूप – बाबू गुलाबराय ।
- 4) भारतीय काव्यशास्त्र के सिद्धांत – डॉ.कृष्णदेव झारी ।
- 5) भारतीय काव्यशास्त्र – डॉ.मानवेंद्र पाठक ।
- 6) भारतीय साहित्यशास्त्र – डॉ. बलदेव उपाध्याय ।
- 7) साहित्यशास्त्र – डॉ. चंद्रभान सोनवणे ।
- 8) भारतीय काव्यशास्त्र – डॉ.योगेंद्र प्रताप सिंह ।
- 9) हिंदी आलोचना के बीज शब्द – डॉ. बच्चन सिंह ।

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र V प्रश्नपत्र IX

हिंदी साहित्य का इतिहास

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष –2020 –21, 2021–22, 2022–23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

1. हिंदी भाषा तथा साहित्य की विकास यात्रा से अवगत कराना।
2. हिंदी साहित्य की विकास यात्रा में हिंदी भाषा के माध्यम से अलग-अलग विचारधारा और प्रवृत्तियों से अवगत कराना।
3. छात्रों में साहित्य समझने तथा उसका आस्वादन, मूल्यांकन करने की दृष्टि को बढ़ाना।
4. छात्रों को साहित्य के संदर्भ में विभिन्न साहित्यिक विधाओं के विकास क्रम से परिचित कराना।
5. छात्रों को युगीन सामाजिक, राजनीतिक परिस्थितियों के परिप्रेक्ष्य में हिंदी से अवगत कराना।
6. इतिहासकारों द्वारा प्रस्तुत काल विभाजन और नामकरण को जानने के लिए प्रेरित करना।
7. हिंदी के प्रमुख संत कवि, उनकी रचनाएँ और उनका समाजसुधार में योगदान से परिचित कराना।
8. हिंदी साहित्य के अंतर्गत गद्य-पद्य विधा और उसके भेदों, उपभेदों से अवगत कराना .

9. आदिकाल से लेकर आधुनिक काल तक के संत, महात्मा, लेखक, कवियों की विचारधारा और उनके द्वारा निर्मित साहित्य का सामान्य परिचय कराना।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई – 1 आदिकाल –

1. आदिकाल का नामकरण।
2. सामाजिक और राजनीतिक परिस्थितियाँ।
3. आदिकाल की प्रतिनिधि रचनाएँ: सामान्य परिचय –
अ) पृथ्वीराज रासो।
आ) बीसलदेव रासो।

इकाई – 2 . भक्तिकाल–

1. भक्तिकालीन सामाजिक परिस्थितियाँ।
2. भक्तिकालीन राजनीतिक परिस्थितियाँ।
3. भक्तिकालीन कवियों का सामान्य परिचय–
अ) संत नामदेव
आ) संत रविदास
इ) संत मीराबाई
ई) गुरु नानक

इकाई – 3 . निर्गुण भक्ति धारा–

1. निर्गुण भक्ति धारा काव्य की सामान्य विशेषताएँ।
2. कबीर : जीवन परिचय एवं कृतित्व।

3. जायसी : जीवन परिचय एवं कृतित्व ।

इकाई – 4 . सगुण भक्ति धारा–

1. सगुण भक्ति धारा काव्य की विशेषताएं ।

2. तुलसीदास : जीवन परिचय एवं कृतित्व ।

3. सूरदास : जीवन परिचय एवं कृतित्व ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पुरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न ।	10
प्रश्न 2	इकाई 1 पर लघुत्तरीय प्रश्न (3 में से 2) ।	10
प्रश्न 3	इकाई 2 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 3 और 4 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) ।	10

सत्र VI प्रश्नपत्र –XIV
हिंदी साहित्य का इतिहास

इकाई – 1 रीतिकाल –

1. रीतिकाल का नामकरण ।
2. सामाजिक एवं राजनीतिक परिस्थितियाँ ।
3. प्रतिनिधि कवियों का सामान्य परिचय –
अ) केशवदास
आ) बिहारी
इ) भूषण
ई) धनानंद ।

इकाई – 2 आधुनिक काल –

1. प्रारंभिक हिंदी गद्य साहित्य का सामान्य परिचय ।
2. आधुनिककालीन सामाजिक एवं राजनीतिक परिस्थितियाँ ।
3. युग प्रवर्तक साहित्यकार–
अ) भारतेन्दु हरिश्चंद्र
आ) जयशंकर प्रसाद
इ) मोहन राकेश

इकाई – 3 आधुनिक गद्य विधाओं का विकास–

1. हिंदी उपन्यास साहित्य उद्भव और विकास ।
2. हिंदी नाटक साहित्य उद्भव और विकास ।
3. हिंदी यात्रा साहित्य उद्भव और विकास ।

इकाई – 4 हिंदी काव्य की विभिन्न धारा और उनकी विशेषताएँ ।

1. छायावाद ।
2. प्रगतिवाद
3. समकालीन कविता ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पुरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	इकाई 1 पर लघुत्तरीय प्रश्न (3 में से 2)	10
प्रश्न 3	इकाई 2 पर टिप्पणियाँ (3 में 2)	10
प्रश्न 4	इकाई 3 और 4 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

संदर्भ ग्रंथ सूची –

1. हिंदी साहित्य का इतिहास— आचार्य रामचंद्र शुक्ल, जयभारती प्रकाशन, माया प्रेस रोड, इलाहाबाद।
2. हिंदी साहित्य का इतिहास— डॉ. नगेंद्र, नेशनल पब्लिशिंग हाउस, नई दिल्ली।
3. हिंदी साहित्य का दूसरा इतिहास— डॉ. बच्चन सिंह, राधाकृष्ण प्रकाशन, नई दिल्ली।
4. हिंदी साहित्य की भूमिका, डॉ. हजारीप्रसाद द्विवेदी।
5. हिंदी साहित्य का सही इतिहास— डॉ.चंद्रभानु सोनावले।
6. हिंदी साहित्य: युग और प्रवृत्तियाँ— डॉ.शिवकुमार शर्मा, अशोक प्रकाशन, दिल्ली।
7. हिंदी साहित्य का वैज्ञानिक इतिहास— गणपतिचंद्र गुप्त।
8. मध्यकालीन कवि और कविता— रतन कुमार पाण्डेय, अनभै प्रकाशन, मुंबई।
9. हिंदी साहित्य का इतिहास— डॉ.पूरनचंद टंडन, जगताराम एंड सन्स, नई दिल्ली।
10. भक्तिकाल के कालजर्ई रचनाकार—विष्णु दास वैष्णव, कमला प्रकाशन— डीसा गुजरात।
11. हिंदी साहित्य का इतिहास : नए विचार नई दृष्टि— डॉ. सुरेशकुमार जैन, वाणी प्रकाशन, नई दिल्ली।
12. हिंदी साहित्य का इतिहास— डॉ.गंगासहाय प्रेमी, डॉ.अशोक तिवारी, साहित्य सरोवर प्रकाशन, जयपुर हाऊस, आगरा।
13. संत कबीर व्यक्तित्व एवं रचनाएं—डॉ.मो.मजिद मिया, जीएस पब्लिशर्स डिस्ट्रीब्यूटर्स, शाहदरा— दिल्ली।
14. षटकवि : विवेचनात्मक अध्ययन— खण्ड : 1 और 2, डॉ. ओमप्रकाश शर्मा, निराली प्रकाशन, 1312, शिवाजीनगर, जे.एम.रोड, पुणे— 05।

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V प्रश्नपत्र-X

प्रयोजनमूलक हिंदी

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

- 1.हिंदी में कार्य करने की रूचि विकसित करना।
- 2.रोजगार उन्मुख शिक्षा एवं कौशल्य प्रदान करना।
- 3.पारिभाषिक शब्दावली से परिचित करना।
- 4.सरकारी पत्राचार के स्वरूप का परिचय कराना।
- 5.जनसंचार एवं इलेक्ट्रॉनिक माध्यमों से परिचय कराना।
6. अनुवाद स्वरूप, महत्व तथा उपयोगिता से परिचित कराना।
7. रोजगार परक हिंदी की उपयोगिता स्पष्ट कराना।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई – 1 पारिभाषिक शब्दावली ।

दैनिक व्यवहार में प्रयुक्त अंग्रेजी शब्दों के हिंदी पर्यायवाची रूप । (परिशिष्ट में दिए हुए 'अ' तथा 'ब' विभाग के 50 शब्द) ।

इकाई –2 सरकारी कार्यालयीन पत्राचार ।

1. कार्यालय ज्ञापन ।
2. परिपत्र ।
3. कार्यालय आदेश ।
4. सूचना ।
5. अनुस्मारक पत्र ।

इकाई –3 हिंदी भाषा और रोजगार के अवसर ।

1. रेडियो में रोजगार ।
2. विज्ञापन में रोजगार ।
3. अनुवाद में रोजगार ।
4. पत्रकारिता में रोजगार ।
5. फिल्म में रोजगार ।

इकाई –4 समाचार लेखन ।

1. महाविद्यालयीन समारोह का समाचार लेखन ।
2. सामाजिक समारोह का समाचार लेखन ।
3. प्राकृतिक आपदाओं का समाचार लेखन ।
4. दुर्घटनाओं का समाचार लेखन ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पुरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न ।	10
प्रश्न 2	इकाई 2 पर लघुत्तरीय प्रश्न (3 में से 2) ।	10
प्रश्न 3	इकाई 3 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 4 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) ।	10

परिशिष्ट (अ)

पारिभाषिक शब्दावली

	जनसंचार माध्यम संबंधी शब्द	
1.	Announcer	निवेदक
2.	Artistic	कलात्मक
3.	Audio-Visual	दृक-श्राव्य
4.	Banner	पताका
5.	Biographer	जीवनीकार
6.	Biweekly	अर्धसाप्ताहिक
7.	Bulletin	विज्ञापित
8.	Catalogue	सूची
9.	Calligraphy	सुलेखन
10.	Caption	शीर्षक / चित्र परिचय
11.	Cartoonist	व्यंग्य चित्रकार
12.	Choreography	नृत्य रचना
13.	Columnist	स्तंभलेखक
14.	Commentator	समालोचक
15.	Composer	अक्षर योजक
16.	Communication	संचार
17.	Creation	सृजन
18.	Correspondent	संवाददाता
19.	Information Technology	सूचना तंत्रज्ञान
20.	Interview	साक्षात्कार
21.	Interruption	रूकावट
22.	Journalist	पत्रकार
23.	Magazine	पत्रिका
24.	Source Language	स्रोत भाषा
25.	Transliteration	लिप्यंतरण

परिशिष्ट (ब)

शिक्षा सभा और संमेलन संबंधी शब्द

1.	Abstract	सार संक्षेप
2.	Academic Goal	शैक्षिक ध्येय
3.	Address	अभिभाषण संबोधन
4.	Adult Education	प्रौढ शिक्षा
5.	Agenda	कार्यसूची
6.	Anniversary	जयंती वर्षगाँठ
7.	Anthology	संकलन / संग्रह
8.	Appraisal	मूल्यांकन
9.	Attestation	साक्षांकन / अनुप्रमाणन
10.	Audiance	श्रोतागण
11.	Autonomous	स्वायत्त
12.	Bibliography	संदर्भ ग्रंथ सूची
13.	Bachelor	स्नातक
14.	Closing Speech	समापन भाषण
15.	Conference Hall	सम्मेलन भवन
16.	Conclusion	समापन
17.	Document	दस्तावेज
18.	Draft	प्रारूप मसौदा
19.	Guardian	अभिभावक
20.	Humanity	मानविकी
21.	Hypothesis	परिकल्पना
22.	Inauguration	उद्घाटन
23.	Informal	अनौपचारिक
24.	Symposium	संगोष्ठी
25.	Viva-Voce	मौखिक परीक्षा

सत्र—VI प्रश्नपत्र—XV

प्रयोजनमूलक हिंदी

अध्ययनार्थ विषय –

इकाई –1 पारिभाषिक शब्दावली.

दैनिक व्यवहार में प्रयुक्त अंग्रेजी शब्दों एवं पदनामों के हिंदी पर्यायवाची रूप (परिशिष्ट में दिए हुए 'क' तथा 'ड' विभाग के शब्द एवं पदनाम)

इकाई –2. संदर्भ स्रोतों का सामान्य परिचय :

1. इन्स्टाग्राम
2. फेसबुक
3. व्हाट्सअप
4. ट्विटर
5. ब्लॉग

इकाई—3. जनसंचार इलेक्ट्रॉनिक माध्यमों का सामान्य परिचय :

1. दूरदर्शन
2. इंटरनेट
3. डाक्यूटमेंटरी
4. व्हिडिओ कॉफ्रेंस
5. यु ट्यूब

इकाई –4 अनुवाद

1. अनुवाद स्वरूप और महत्व ।
2. अनुवाद की उपयोगिता ।
3. प्रकृति के आधार पर अनुवाद के प्रकार ।
4. अनुवाद के गुण

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पारिभाषिक शब्दावली पर दस वस्तुनिष्ठ प्रश्न	10
प्रश्न 2	इकाई 2 पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 3	इकाई 3 पर टिप्पणियाँ (3 में से 2)	10
प्रश्न 4	इकाई 4 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

परिशिष्ट (क)

	अंग्रेजी के हिंदी वाक्यांश	
1.	Above Mentioned / Said	उपर्युक्त
2.	According to	के अनुसार
3.	After discussion	विचार विवर्ष के बाद
4.	Age of retirement	सेवानिवृत्ति की उम्र
5.	As directed	निर्देशानुसार
6.	Effective Control	प्रभावी नियंत्रण
7.	Examine the proposal	प्रस्ताव की जाँच करें
8.	Eligibility is certified	पात्रता प्रमाणित की जाती है
9.	Facilities are not available	सुविधाएँ उपलब्ध नहीं हैं
10.	For Compliance	अनुपालन के लिए
11.	For perusal	अवलोकनार्थ
12.	Gain Wrongfully	अनुचित रूप से प्राप्त करना
13.	Grant of permission	अनुमति देना
14.	Gross negligence	घोर उपेक्षा
15.	Noted and returned	नोट करके वापस किया जाता है
16.	Not in vogue	प्रचलित नहीं हैं
17.	Not satisfactory	संतोषजनक नहीं हैं
18.	Objection is Not valid	आपत्ति वैद्य/मान्य नहीं हैं
19.	On probation	परिवीक्षाधीन
20.	Order was cancelled	आदेश रद्द
21.	Paper under consideration	विचाराधीन पत्र
22.	Passed for payment	भुगतान के लिए पास किया
23.	Pending Cases	प्रलंबित मामले
24.	I agree	मैं सहमत हूँ
25.	In anticipation of	की प्रतीक्षा में

परिशिष्ट (ड)

	पदनाम संबंधी शब्द	
1.	Adviser	सलाहकार
2.	Accountant	लेखाकार
3.	Advocate	अधिवक्ता
4.	Cashier	रोकडिया / खजाँची
5.	Custodian	अभिरक्षक
6.	Councillor	पार्षद
7.	Director	निदेशक
8.	Executive Engineer	कार्यकारी अभियंता
9.	Foreign secretary	विदेश सचिव
10.	Governor	राज्यपाल
11.	His majesty	महामहिम
12.	Investigater	अन्वेषक
13.	Manager	प्रबंधक
14.	Member of legislative Assembly	विधायक
15.	Member of parliament	सासंद / संसद सदस्य
16.	President	राष्ट्रपति
17.	Prime minister	प्रधानमंत्री
18.	Registrar	कुलसचिव
19.	Speaker	सभापति
20.	Stenographer	आशुलिपिक
21.	Superintendent	अधीक्षक
22.	Treasurer	कोषाध्यक्ष
23.	Under secretary	अवर सचिव
24.	Vice Chancellor	कुलपति
25.	Warden	रक्षक

संदर्भ ग्रंथ सूची –

1. जनसंचार और पत्रकारिता—विविध आयाम— डॉ.ओमप्रकाश शर्मा, निराली प्रकाशन, पुणे ।
2. मीडिया कालीन हिंदी स्वरूप एवं संभावनाएँ—डॉ. अर्जुन चव्हाण, राधाकृष्ण प्रकाशन नई, दिल्ली ।
3. प्रयोजनमूलक हिंदी की नयी भूमिका—डॉ. कैलाशनाथ पाण्डेय, लोकभारती प्रकाशन, इलाहाबाद, नई, दिल्ली ।
4. प्रयोजनमूलक हिंदी— डॉ. विनोद गोदरे, वाणी प्रकाशन, नई दिल्ली ।
5. प्रयोजनामूलक हिंदी— विविध परिदृश्य—डॉ.रमेशचंद्र त्रिपाठी, डॉ.पवन अग्रवाल, अलका प्रकाशन, कानपुर ।
6. हिंदी भाषा और सूचना प्रौद्योगिकी—डॉ. दीपक रामा तुपे, अभिषेक प्रकाशन, दिल्ली ।
7. हिंदी भाषा में रोजगार के अवसर—प्रा.विकास पाटील, ए.बी.एस. पब्लिकेशन वाराणशी ।
8. मीडिया में कैरियर— पी.के. आर्य, ग्रंथ अकादमी, नई दिल्ली ।

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V प्रश्नपत्र-XI

भाषा विज्ञान और हिंदी भाषा

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

- 1) भाषा के विविध रूपों का परिचय कराना ।
- 2) भाषा विज्ञान का सामान्य परिचय कराना ।
- 3) हिंदी भाषा एवं लिपि के उद्भव और विकास का परिचय कराना ।
- 4) भाषा की शुद्धता के प्रति छात्रों को जागृत करना ।
- 5) मानक हिंदी वर्तनी और व्याकरण से छात्रों को परिचित कराना ।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई 1— भाषा की परिभाषाएँ, भाषा की विशेषताएँ, भाषा की उत्पत्ति एवं तत्संबंधी विविध वाद—दैवी उत्पत्ति सिद्धांत, धातु सिद्धांत, अनुकरण सिद्धांत, श्रमपरिहार सिद्धांत, मनोभावाभिव्यंजक सिद्धांत, समन्वित सिद्धांत ।

इकाई 2— भाषा परिवर्तनशीलता के कारण ।

भाषा के विविध रूप— बोली और परिनिष्ठित भाषा ।

बोलियों के बनने के कारण, बोली और भाषा में अंतर ।

इकाई 3— हिंदी भाषा का उद्भव और विकास ।

हिंदी का शब्दसमूह, हिंदी भाषा के विविध रूप—राष्ट्रभाषा, राजभाषा, संपर्क भाषा ।

इकाई 4 — हिंदी की विविध बोलियाँ—अवधी, ब्रज, खड़ीबोली, भोजपुरी ।

लिपि विकास का सामान्य परिचय, देवनागरी लिपि की वैज्ञानिकता ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पुरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न ।	10
प्रश्न 2	इकाई 3 पर लघुत्तरीय प्रश्न (3 में से 2) ।	10
प्रश्न 3	इकाई 4 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 1 और 2 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) ।	10

सत्र – VI प्रश्नपत्र –XVI

भाषा विज्ञान और हिंदी भाषा

अध्ययनार्थ विषय –

इकाई 1—भाषाविज्ञान की परिभाषाएँ, भाषाविज्ञान के अध्ययन का महत्त्व, भाषाविज्ञान की वैज्ञानिकता ।

इकाई 2 —भाषाविज्ञान के प्रधान अंगों का परिचय—
ध्वनिविज्ञान, पदविज्ञान, शब्दविज्ञान, वाक्यविज्ञान, अर्थविज्ञान ।

इकाई 3 —भाषाविज्ञान का अन्य ज्ञान विज्ञानों से संबंध ।

1. भाषा विज्ञान और साहित्य 2. भाषाविज्ञान और व्याकरण ।
3. भाषाविज्ञान और समाजविज्ञान 4. भाषाविज्ञान और मनोविज्ञान ।
5. भाषाविज्ञान और इतिहास 6. भाषाविज्ञान और भूगोल ।

इकाई 4—कारको के अर्थ और प्रयोग,पदक्रम, विरामचिह्न (केवल अल्पविराम, निर्देशक चिन्ह(डेश) और अवतरणचिन्ह) मानक वर्तनी के नियम ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पुरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न।	10
प्रश्न 2	इकाई 4 पर लघुत्तरीय प्रश्न (3 में से 2)।	10
प्रश्न 3	इकाई 2 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 1 और 3 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)।	10

संदर्भ ग्रंथ सूची

1. भाषाविज्ञान – डॉ.भोलानाथ तिवारी ।
2. भाषाविज्ञान की भूमिका— डॉ.देवेदनाथ शर्मा ।
3. भाषाविज्ञान के तत्व— डॉ राजनारायण मौर्य ।
4. भाषाविज्ञान और हिंदी भाषा – डॉ. सुधीर कलावडे ।
5. भाषाविज्ञान के सिद्धांत और हिंदी भाषा – डॉ. द्वारकाप्रसाद सक्सेना ।
6. संक्षिप्त भाषाविज्ञान— डॉ.सुरेशचंद्र त्रिवेदी ।
7. हिंदी— उद्भव विकास और रूप – डॉ.हरदेव बिहारी ।
8. हिंदी भाषा – डॉ.धीरेंद्र वर्मा ।

9. हिंदी भाषा की विकास यात्रा – डॉ.रामप्रकाश ।
10. हिंदी भाषा, व्याकरण लिपि विज्ञान – डॉ.हरदान हर्ष ।
11. हिंदी व्याकरण – कामताप्रसाद गुरु ।
12. नागरी लिपि और उसकी समस्याएँ – डॉ.नरेंद्र मिश्र ।
13. हिंदी की वर्तनी– कैलासचंद्र भाटिया, रचना भाटिया ।
14. मानक हिंदी का शुद्धिपरक व्याकरण – डॉ.रमेशचंद्र मेहरोत्रा ।
15. भाषाविज्ञान के सिद्धांत – डॉ.ओमप्रकाश शर्मा ।

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V ,VI

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

समकक्षता

अ.क्र	जुना अभ्यासक्रम	अ.क्र	नवीन अभ्यासक्रम
1	अभ्यापत्रिका क्रमांक : 7	1	अभ्यापत्रिका क्रमांक : 7
	अभ्यापत्रिका क्रमांक : 12		अभ्यापत्रिका क्रमांक : 12
2	अभ्यापत्रिका क्रमांक : 8	2	अभ्यापत्रिका क्रमांक : 8
	अभ्यापत्रिका क्रमांक : 13		अभ्यापत्रिका क्रमांक : 13
3	अभ्यापत्रिका क्रमांक : 9	3	अभ्यापत्रिका क्रमांक : 9
	अभ्यापत्रिका क्रमांक : 14		अभ्यापत्रिका क्रमांक : 14
4	अभ्यापत्रिका क्रमांक : 10	4	अभ्यापत्रिका क्रमांक : 10
	अभ्यापत्रिका क्रमांक : 15		अभ्यापत्रिका क्रमांक : 15
5	अभ्यापत्रिका क्रमांक : 11	5	अभ्यापत्रिका क्रमांक : 11
	अभ्यापत्रिका क्रमांक : 16		अभ्यापत्रिका क्रमांक : 16

शिवाजी विद्यापीठ, कोल्हापूर

SHIVAJI UNIVERSITY, KOLHAPUR

बी.ए.१/बी.कॉम.१ : B.A. I/B.Com I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Compulsory Generic Elective (CGE-1) : Marathi (Course - A)

आवश्यक अनुषंगिक निवड (CGE-1) : मराठी (अभ्यासपत्रिका - अ)

सत्र १ : Semester - I

पाठ्यपुस्तक - शब्दसंहिता

१. नापास मुलांची गोष्ट (निवडक लेख)

संपा. अरुण शेवते, ऋतुरंग प्रकाशन, मुंबई.

२. व्यक्तिमत्त्व विकास आणि भाषा

उद्दिष्टे :

१. विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरूची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.
३. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.
५. निबंधलेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित करणे.

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	१) निवड - यशवंतराव चव्हाण २) वाटेवरच्या सावल्या - कुसुमाग्रज ३) पन्नास पैकी शून्य मार्कस् - शांताबाई शेळके	१५	१
विभाग २ Module II	४) शब्दांचे मोल - चंद्रशेखर धर्माधिकारी ५) संगमनेरचे दिवस - दया पवार व्यक्तिविशेष लेख : ६) संकल्प सिद्धीला नेणारा महापुरुष : डॉ. बापूजी साळुंखे - बळवंत देशमुख	१५	१
विभाग ३ Module III	● व्यक्तिमत्त्व संकल्पना ● व्यक्तिमत्त्व विकासासाठी आवश्यक घटक ● व्यक्तिमत्त्व विकासात भाषेचे महत्त्व	१५	१
विभाग ४ Module IV	● भाषिक कौशल्ये(श्रवण, वाचन, भाषण आणि लेखन कौशल्ये) ● कार्यक्रमाचे संयोजन - स्वागत, प्रास्ताविक, परिचय, मनोगत, आभार, सूत्रसंचलन आणि कार्यक्रमाचे फलकलेखन	१५	१

संदर्भ ग्रंथसूची:

अ.क्र.	ग्रंथाचे नांव	लेखक / संपादक	प्रकाशन
१	बदलते मराठी साहित्य व संस्कृती	संपा. विलास रणसुभे	श्रमिक प्रतिष्ठान, कोल्हापूर
२	शिक्षण महर्षी डॉ. बापूजी साळुंखे	संपा. सुरेश पाटील, तुकाराम पाटील	पारख प्रकाशन, बेळगांव
३	निळी पहाट	रा. ग. जाधव	सुरेश एजन्सी, पुणे
४	साहित्यसंवाद	वि. शं. चौघुले	प्रतिमा प्रकाशन, पुणे
५	मराठी साहित्यातील स्पंदने	गो. म. कुलकर्णी	सुपर्ण प्रकाशन, पुणे
६	साहित्यातील विचारधारा	के. रं. शिरवाडकर	पद्मगंधा प्रकाशन, पुणे
७	चिंतनाच्या वाटा	निर्मलकुमार फडकुले	मेहता पब्लिशिंग हाऊस, पुणे
८	साहित्य समजून घेताना	दत्ता भगत	मीरा बुक्स अँड पब्लिकेशन, औरंगाबाद
९	साहित्य : मूल्य आणि मूल्यांकन	निशिकांत ठकार	सुविधा प्रकाशन, सोलापूर
१०	साहित्य, भाषा आणि समाज	मिलिंद बोकिल	मौज प्रकाशन, मुंबई
११	व्यावहारिक मराठी	ल.रा. नसिराबादकर	फडके प्रकाशन, कोल्हापूर
१२	भाषिक सर्जन आणि उपयोजन	राजन गवस, अरुण शिंदे, गोमटेश्वर पाटील	दर्या प्रकाशन, पुणे
१३	व्यावहारिक मराठी	स्नेहल तावरे	स्नेहवर्धन प्रकाशन, पुणे
१४	सूत्रसंचलन : एक प्रयत्नसाध्य कला	श्यामसुंदर मिरजकर	नागनालंदा प्रकाशन, इस्लामपूर

प्रश्नपत्रिकेचे स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks - 50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (चार पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १ व २ वरील असतील

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

बी.ए.१/बी.कॉम.१ : B.A. I/B.Com I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Compulsory Generic Elective (CGE-2) : Marathi (Course - B)

आवश्यक अनुषंगिक निवड (CGE-2) : मराठी (अभ्यासपत्रिका - ब)

सत्र २ : Semester - II

पाठ्यपुस्तक - शब्दसंहिता

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	१. संत नामदेव १) पतितपावन २) पंढरीस जावे २. अनंत फंदी १) जमाना आला उफराटा २) हे मुर्खा खूण तर्का ३. महात्मा फुले १) मानवांचा धर्म एक २) धीर ४. बालकवी १) फुलराणी २) अप्सरांचे गाणे	१५	१
विभाग २ Module II	५. विंदा करंदीकर १) माझ्या मना बन दगड २) झपताल ६. वाहरू सोनवणे १) गोधड २) चळवळ म्हणजे ७. प्रज्ञा दया पवार १) माणसासारखा माणूस असूनही २) आग आणि फुफाटा ८. एकनाथ पाटील १) शहर एक उदास पोकळी २) शोधयात्रा	१५	१
विभाग ३ Module III	● निबंधाचे स्वरूप, व्याप्ती ● निबंधाचे घटक ● निबंधाचे प्रकार ● निबंधाची वैशिष्ट्ये	१५	१
विभाग ४ Module IV	● निबंध लेखन (प्रात्यक्षिकासह वर्गात सराव करून घेणे)	१५	१

संदर्भ ग्रंथसूची :

अ.क्र.	ग्रंथाचे नांव	लेखक / संपादक	प्रकाशन
१	नामदेव गाथा	ह. श्री. शेणोलीकर	साहित्य अकादमी, नवी दिल्ली
२	अनंत फंदी यांच्या कविता व लावण्या	संपा. मधुकर मोढे	पद्मगंधा प्रकाशन, पुणे
३	महात्मा फुले समग्र वाङ्मय	संपा. धनंजय कीर व इतर	महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ, मुंबई
४	समग्र बालकवी	संपा. नंदा आपटे	पॉप्युलर प्रकाशन, मुंबई
५	संहिता	संपा. मंगेश पाडगावकर	कॉन्टिनेन्टल प्रकाशन, पुणे
६	गोधड	वाहरु सोनवणे	रविराज प्रकाशन, पुणे
७	मी भिडवू पाहतेय समग्राशी डोळा	प्रज्ञा पवार	ग्रंथाली, मुंबई
८	खुंट्यांवर टांगलेली दुःखं	एकनाथ पाटील	पॉप्युलर प्रकाशन, मुंबई.
९	संत नामदेव	हे. वि. इनामदार	केसरी प्रकाशन, पुणे
१०	संत नामदेव : समाजशास्त्रीय अभ्यास	श्यामसुंदर मिरजकर	नागनालंदा प्रकाशन, पुणे
११	मराठी शाहिरी वाङ्मयाचे स्वरूप	चंद्रकांत व्यवहारे	विश्वभारती प्रकाशन, नागपूर
१२	मराठी साहित्य प्रेरणा व स्वरूप	संपा. गो. मा. पवार, म.द. हातकणंगलेकर	पॉप्युलर प्रकाशन, मुंबई
१३	साहित्य अध्यापन व प्रकार	संपा. श्री. पु. भागवत व इतर	पॉप्युलर प्रकाशन, मुंबई
१४	मराठी कविता आणि आधुनिकता	यशवंत मनोहर	सुगावा प्रकाशन, पुणे
१५	आदिवासी साहित्य आणि संस्कृती	भुजंग मेश्राम	लोकवाङ्मय गृह, मुंबई
१६	आदिवार्ता (वाहरु सोनवणे विशेषांक)	संपा. दिपककुमार वळवी, उमाकांत वळवी	शिवकमल प्रकाशन, कोल्हापूर
१७	वाहरु सोनवणे : व्यक्तीपासून समष्टीपर्यंतचा सम्यक प्रवास	संपा. प्रशांत नागावकर	सम्यक विद्रोही प्रबोधन प्रकाशन, कोल्हापूर
१८	वर्तमान पिढीचे संदर्भ	संपा. चंद्रकांत पोतदार	द.म.सा.प्रकाशन, कोल्हापूर
१९	काव्याची भूषणे	म.वा. धोंड	पद्मगंधा प्रकाशन, पुणे
२०	मराठी कवितेच्या नव्या दिशा	महेंद्र भवरे	लोकवाङ्मय गृह, मुंबई
२१	आदिवासी साहित्य	अमर कांबळे	निर्मिती प्रकाशन, कोल्हापूर
२२	मराठी निबंध	रा. ग. जाधव	कॉन्टिनेन्टल प्रकाशन, पुणे
२३	मराठी निबंध : उद्गम आणि विकास	गिरीश मोरे	स्वरूप प्रकाशन, औरंगाबाद

प्रश्नपत्रिका स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks - 50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील निबंधलेखन (चार पैकी एक)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १ व २ वरील असतील.

शिवाजी विद्यापीठ, कोल्हापूर

SHIVAJI UNIVERSITY, KOLHAPUR

बी.ए.१ : B.A. I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Discipline Specific Core (DSC-A1) : Marathi (Course - I)

विद्याशास्त्रीय विशेष गाभा (DSC-A1) : मराठी (अभ्यासपत्रिका - १)

सत्र १ : Semester - I

पाठ्यपुस्तक - अक्षरबंध

१. कथा - निवडक भास्कर चंदनशिव - लाल चिखल (निवडक कथा)

संपा. इंद्रजित भालेराव, लोकवाङ्मय गृह, मंबई.

२. चित्रपट : आस्वाद प्रक्रिया

उद्दिष्ट्ये :

१. विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरूची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.
३. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.
५. चित्रपट आणि प्रसारमाध्यमे यांच्या लेखन आणि उपयोजनाच्या आकलनाचा अवकाश वाढविणे.

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	कथा - निवडक भास्कर चंदनशिव ● उमाळं ● जांभळढव्ह ● तडा	१५	१
विभाग २ Module II	● वासना ● लाल चिखल ● पाणी	१५	१
विभाग ३ Module III	● चित्रपट म्हणजे काय ? ● चित्रपट : एक दृक श्राव्य माध्यम ● चित्रपट : माध्यमांतर ● दिग्दर्शकाचा दृष्टिकोन ● छायाचित्रण	१५	१

विभाग ४ Module IV	<ul style="list-style-type: none"> ● चित्रपटाची कथा - पटकथा - संवाद ● चित्रपटाचे संगीत - गीत ● अभिनय ● ध्वनी - प्रकाशयोजना - वेशभुषा ● संकलन - संपादन ● चित्रपटाचा आश्वाद 	१५	१
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संदर्भ ग्रंथसूची :

अ.क्र.	ग्रंथाचे नांव	लेखक / संपादक	प्रकाशन
१	मराठी कथा : रूप आणि परिसर	म. द. हातकणंगलेकर	सुपर्ण प्रकाशन, पुणे
२	भास्कर चंदनशिव यांची कथा आणि स्वरूप	सुनील चंदनशिवे	शब्दाली प्रकाशन, पुणे
३	कथाकार भास्कर चंदनशिव	मथू सावंत	सुविधा प्रकाशन, सोलापूर
४	मराठी साहित्य : आकलन आणि आस्वाद	विश्वनाथ शिंदे	शब्दालय प्रकाशन, श्रीरामपूर
५	माती आणि नाती	भास्कर चंदनशिव	निर्मल प्रकाशन, नांदेड
६	ग्रामीण साहित्य आणि संस्कृती	मोहन पाटील	स्वरूप प्रकाशन, औरंगाबाद
७	शूटिंग	श्री. दा. पानवलकर	मौज प्रकाशन, मुंबई
८	सय	सई परांजपे	पॉप्युलर प्रकाशन, मुंबई
९	लमाण	डॉ. श्रीराम लागू	पॉप्युलर प्रकाशन, मुंबई
१०	सामना (चित्रपटाची पटकथा)	विजय तेंडूलकर	नीलकंठ प्रकाशन, पुणे
११	चौकटीबाहेरचा सिनेमा	गणेश मतकरी	पॉप्युलर प्रकाशन, मुंबई
१२	चलतचित्र	अरुण खोपकर	राजहंस प्रकाशन, पुणे
१३	अभिनयाचे प्राथमिक सहा पाठ	सदाशिव अमरापूरकर, विनायक दातेगावकर	लोकवाडमयगृह प्रकाशन, मुंबई.

प्रश्नपत्रिका स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks - 50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (चार पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १ व २ वरील असतील.

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बी.ए.१ : B.A. I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Discipline Specific Core (DSC-A13) : Marathi (Course - II)

विद्याशाखीय विशेष गाभा (DSC-A13) : मराठी (अभ्यासपत्रिका - २)

सत्र २ : Semester - II

पाठ्यपुस्तक - अक्षरबंध

१. कविता : ... बाकी सर्व ठीक आहे - लोकनाथ यशवंत (निवडक कविता)

प्रकाशक - समुद्र पब्लिकेशन, नागपूर

२. वृत्तपत्रीय व स्पर्धा परीक्षेसाठी लेखन

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	...बाकी सर्व ठीक आहे - लोकनाथ यशवंत (निवडक कविता) १) जीवाचा आटापिटा २) मुख्यप्रवाह ३) एका वृक्षाची गोष्ट ४) राग ५) जीवन सुंदर आहे ६) भविष्य ७) तडजोड ८) पर्सनल मुलाखत	१५	१
विभाग २ Module II	९) गौडबंगाल १०) पर्यावरण ११) सोन्याचा दात १२) मांजर १३) स्पर्श १४) युद्ध असे सुरू होते १५) जन्म आईचा १६) शेतमजूर	१५	१
विभाग ३ Module III	वृत्तपत्रीय लेखन ● बातमी ● अग्रलेख ● वाचकांचा पत्रव्यवहार ● नाटक/चित्रपट परीक्षण	१५	१

विभाग ४ Module IV	उपयोजित व स्पर्धा परीक्षेसाठी लेखन अ) पत्रलेखन : पत्रलेखनाचे स्वरूप व प्रकार, पत्रलेखनाचे बदलते स्वरूप - ई. पत्रव्यवहार, प्रात्यक्षिकासह पत्रलेखन ब) आकलन : <ul style="list-style-type: none"> ● आकलनाचे स्वरूप ● उताऱ्याचे आकलन ● कवितेचे आकलन ● प्रात्यक्षिकासह उतारा व कवितेवरील आकलन 	१५	१
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संदर्भ ग्रंथसूची :

अ.क्र.	ग्रंथाचे नांव	लेखक/संपादक	प्रकाशन
१	दलित साहित्याची वैचारिक पार्श्वभूमी	जनार्दन वाघमारे	स्वरूप प्रकाशन, औरंगाबाद
२	दलित साहित्य : एक अभ्यास	संपा. अर्जुन डांगळे	सुगावा प्रकाशन, पुणे
३	दलित कवितेचे नवे प्रवाह	महेंद्र भवरे	शब्दालय प्रकाशन, श्रीरामपूर
४	दलित कविता व दलित साहित्याचे सौंदर्यशास्त्र	म. सु. पाटील	पद्मगंधा प्रकाशन, पुणे
५	बदलते मराठी साहित्य व संस्कृती	संपा. विलास रणसुभे	श्रमिक प्रतिष्ठान, कोल्हापूर
६	साहित्य, भाषा आणि समाज	मिर्लिंद बोकिल	मौज प्रकाशन, मुंबई
७	मराठी कविता : आकलन आणि आस्वाद	नागनाथ कोत्तापल्ले	स्वरूप प्रकाशन, औरंगाबाद
८	आंबेडकरी साहित्य : स्थिती आणि स्थित्यंतरे	भगवान ठाकूर	आकांक्षा प्रकाशन, पुणे
९	सदाचार अर्थात नैतिक मूल्यांचे शिक्षण	संपा. रघुनाथ केंगार, दादासाहेब यादव	क्रांतिबा प्रकाशन, कराड
१०	व्यावहारिक मराठी	संपा. सयाजीराजे मोकाशी, रंजना नेमाडे	नागनालंदा प्रकाशन, इस्लामपूर
११	भाषिक सर्जन व उपयोजन	राजन गवस, अरूण शिंदे, गोमटेश्वर पाटील	दर्या प्रकाशन, पुणे
१२	व्यावहारिक मराठी	स्नेहल तावरे	स्नेहवर्धन प्रकाशन, पुणे
१३	प्रबोधनाची निवडक पत्रे	डॉ. श्यामसुंदर मिरजकर	नागनालंदा प्रकाशन, इस्लामपूर

प्रश्नपत्रिका स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks - 50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (चार पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १ व २ वरील असतील.

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अभ्यासक्रम : Syllabus

June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-३ : Semester No. III

Discipline Specific Core Course (DSC-C1) Marathi Paper No.III

विद्याशाखीय विशेष गाभा (DSC-C1) (अभ्यासपत्रिका - ३)

साहित्यकृती : काय डेंजर वारा सुटलाय! (नाटक)

जयंत पवार, पॉप्युलर प्रकाशन, मुंबई, २०११

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. नाटक या वाङ्मय प्रकाराचे आकलन करून घेणे.
२. समकालीन नाटकातून नाटककाराच्या समकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते याचा अभ्यास करणे.
३. नाट्याभ्यासाद्वारे प्रयोगरूप नाटक व नाट्यक्षेत्रातील ज्ञानसंपादनास चालना देणे.
४. नाट्याभ्यासातून सभ्यता, संस्कृती, राष्ट्रीय एकात्मता व बंधुता वाढीस लावणे.
५. विद्यार्थ्यांमध्ये संवादलेखन कौशल्ये विकसित करणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	काय डेंजर वारा सुटलाय! – आशयसूत्रे	१५	१
विभाग २ Module II	काय डेंजर वारा सुटलाय! – पात्रे, घटनाप्रसंग, संवाद व संघर्षाचे स्वरूप	१५	१
विभाग ३ Module III	काय डेंजर वारा सुटलाय! – नाट्यविशेष व भाषाविशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी – संवाद लेखन ● संवाद : स्वरूप आणि व्याख्या ● संवाद कौशल्यासाठी आवश्यक बाबी ● संवादाचे प्रकार ● उदाहरणदाखल कथानकावर संवादलेखन	१५	१

मूलभूत वाचन :

१. कदम-जांगडा, नीलिमा लेख- 'अंतर्बाह्य हादरवणारा वारा' दै. वृत्तमाणूस, मुंबई, १४/८/२०१०
२. करमकर, दीपेश लेख- 'जागतिकीकरणाचा डेंजर वारा' आपला परममित्र (दिवाळी अंक) नोव्हें., डिसेंबर, २०१२
३. बागले, प्रभाकर लेख- 'काय डेंजर वारा सुटलाय-एक विचार' साहित्य आणि सांस्कृतिक संवेदन, शब्दालय प्रकाशन, श्रीरामपूर.
४. जोशी, संजय भास्कर लेख- 'लक्षवेधी पुस्तके - काय डेंजर वारा सुटलाय' ललित, सप्टें., २०११
५. पवार, जयंत लेख- 'एका गुंत्याचा गुंताडा' साधना, पुणे, १२ जाने., २०१३
६. आठलेकर, मंगल लेख- 'खूप मोठं अवसान गोळा करावं लागतं' साधना, पुणे, १२ जाने., २०१३
७. गमरे, गौतम बा. लेख- 'काय डेंजर वारा सुटलाय' रंगवाचा (मासिक), फेब्रु., २०१७
८. गुप्ते, विश्राम लेख- 'काय डेंजर वारा सुटलाय-बोलकी हिंसा' परिवर्तन (त्रैमासिक), मुंबई, एप्रिल, मे, जून, २०१२
९. नाडकर्णी, कमलाकर लेख- 'काय डेंजर वारा सुटलाय' दै. आपलं महानगर, मुंबई, २० ऑगस्ट, २०१०

पूरक वाचन :

१०. धांडे, चंद्रकांत मराठी नाट्यसमीक्षेचा इतिहास, परिमल प्रकाशन, औरंगाबाद
११. कुलकर्णी, व. दि. नाटक : रंगाविष्कार आणि रंगास्वाद, पद्मगंधा प्रकाशन, पुणे
१२. शिंदे, विश्वनाथ व स्मार्त, हिमांशू मराठी नाटक आणि रंगभूमी, प्रतिमा प्रकाशन, पुणे, २००८
१३. कुलकर्णी, द. भि. नाटक : स्वरूप आणि समीक्षा, पद्मगंधा प्रकाशन, पुणे
१४. भावे, पुष्पा रंग नाटकाचे, राजहंस प्रकाशन, मुंबई
१५. गावडे, गोपाळ मामा वरेरकर : प्रयोगाची नांदी, मनोकामना प्रकाशन, इस्लामपूर, २०१७
१६. भगत, दत्ता मराठी नाटक आणि रंगभूमीचा इतिहास: आरंभ ते १९९० पर्यंत, प्रकाशक महाराष्ट्र राज्य साहित्य, संस्कृती मंडळ, २०१९
१७. कानडे, मु. श्री. मराठी रंगभूमीची १२५ वर्षे : नाट्यविषयक ठळक नोंदी, स्नेहवर्धन पब्लिशिंग हाऊस पुणे, २०१०
१८. घोरपडे, अक्षय संवाद आणि लेखन कौशल्ये, प्रशांत पब्लिकेशन, जळगांव, २०१९
१९. तौर, पृथ्वीराज (संपा.) मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन, धुळे, २०१८
२०. जोशी, प्रभाकर व वले, वासुदेव उपयोजित मराठी भाग १, प्रशांत पब्लिकेशन, जळगांव, २०१७
२१. जोशी, प्रभाकर उपयोजित मराठी, प्रशांत पब्लिकेशन, जळगांव, २०१७

* प्रश्नपत्रिकेचे स्वरूप *

Pattern of Question Paper

एकूण गुण - ५० : Total Marks-50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वर थोडक्यात उत्तरे द्या (तीन पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वर लघुत्तरी प्रश्न (चार पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १, २ व ३ वर असतील.

शिवाजी विद्यापीठ, कोल्हापूर

SHIVAJI UNIVERSITY, KOLHAPUR

बी.ए. भाग-२ : B.A. Part-II

अभ्यासक्रम : Syllabus

June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-३ : Semester No. III

Discipline Specific Core Course (DSC-C2) Marathi Paper No. IV

विद्याशाखीय विशेष गाभा (DSC-C2) (अभ्यासपत्रिका - ४)

पाठ्यपुस्तक : काव्यगंध

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. मराठी काव्यपरंपरा व प्रवाहांची ओळख करून घेणे.
२. मराठी काव्यातून प्रकट होणारे माणूस आणि समाज यातील परस्पर संबंध शोधणे.
३. कवितेच्या कलात्मक आकृतीबंधाचे मोल अभ्यासणे.
४. काव्यप्रवाहानुरूप काव्यलेखनाचे विशेष अभ्यासणे.
५. प्रात्यक्षिकाद्वारे काव्यलेखन कौशल्ये रुजविणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	केशवसुत- १. अंत्यजाच्या मुलाचा पहिला प्रश्न २. नवा शिपाई (सामाजिक) ३. तुतारी ४. मजुरावर उपासमारीची पाळी ५. गोफण केली छान! वसंत बापट- १. फुंकर २. जपावयाला शिकली होतीस ३. आज (प्रेमविषयक) अचानक ४. नाजुक रुपडे ५. विस्मृती	१५	१
विभाग २ Module II	नारायण सुर्वे- १. दोन दिवस २. माझी आई ३. गिरणीची लावणी (श्रमविषयक) ४. पोष्टर ५. नेहरू गेले त्या वेळची गोष्ट वसंत आबाजी डहाके- १. त्या संध्याकाळी समुद्र २. आख्यान (महानगरीय) ३. खेळ ४. पुतळे ५. वास्तववाद	१५	१
विभाग ३ Module III	अजीम नवाज राही- १. दुष्काळ : काही संदर्भ (वंचितांची कविता) २. जातीय दंगल : बारा भानगडींची तेरा वळणे ३. सुरक्षेची हमी देणारा कळपवाद! ४. मोडतोडीतून डागडुजीची भाषा शिकताना ५. मोहल्ला, पक्षी आणि कातरवेळ कल्पना दुधाळ- १. बाय आणि गाय २. झुलत्या फांदीला (कृषी जाणीव) ३. घोषणा ४. खस्ता ५. धग असतेच आसपास	१५	१
विभाग ४ Module IV	उपयोजित मराठी - काव्यनिर्मिती प्रक्रिया १. प्रसंगावर २. घटनेवर ३. चित्रावर ४. अनुभवावर	१५	१

मूलभूत वाचनः

१. पंडित, भ. श्री. (संपा.) समग्र केशवसुत, व्हीनस प्रकाशन, पुणे
२. क्षीरसागर, शकुंतला संपूर्ण केशवसुत, पॉप्युलर प्रकाशन, मुंबई, २००१
३. बापट, वसंत सेतू, पॉप्युलर प्रकाशन, मुंबई, पुनर्मुद्रण, २००४
४. कुसुमाग्रज (संपा.) निवडक नारायण सुर्वे, लोकवाङ्मयगृह, मुंबई, १९९४
५. सुर्वे, नारायण माझे विद्यापीठ, पॉप्युलर प्रकाशन, मुंबई, आवृत्ती २ री, २००५
६. डहाके, वसंत आबाजी शुभवर्तमान, मौज प्रकाशन, मुंबई, १९९७
७. डहाके, वसंत आबाजी शुनःशेष, लोकवाङ्मयगृह, मुंबई, १९९६
८. डहाके, वसंत आबाजी चित्रलिपी, लोकवाङ्मयगृह, मुंबई, २००६
९. राही, अजीम नवाज व्यवहाराचा काळा घोडा, मुक्तछंद प्रकाशन, नागपूर, २००४
१०. राही, अजीम नवाज कल्लोळातला एकांत, अक्षरमानव प्रकाशन, पुणे, २०१२
११. राही, अजीम नवाज वर्तमानाचा वतनदार, लोकवाङ्मयगृह, मुंबई, २०१७
१२. दुधाळ, कल्पना सिद्धर कर म्हणतेय माती, हर्मिस प्रकाशन, पुणे
१३. दुधाळ, कल्पना धग असतेच आसपास, लोकवाङ्मयगृह, मुंबई
१४. कदम, महेंद्र लेख-कल्पना दुधाळ यांचं शेतीशास्त्र, साप्ता. विवेक, ५ मार्च, २०१८
१५. धसकटे, सुशील मुलाखत-कल्पना दुधाळ यांची मुलाखत, अक्षरनामा, १२ जाने., २०१८
१६. शर्मा, नीला लेख-कल्पना व वास्तवादर्श्यानाचा पूल ठरलेली कविता, दै.सकाळ, ८ मार्च, २०१८
१७. कदम, महेंद्र लेख-कल्पना दुधाळ यांच्या कवितेची शैली, कवितेची शैली, अक्षरवाङ्मय, पुणे, २०१९
१८. शानेदिवान, राजेखान भारतीय मुसलमानःवर्तमान आणि भविष्य, अक्षरदालन प्रकाशन, कोल्हापूर
१९. कुलकर्णी, अंजली लेख-वर्तमानाचा स्वशोध, दै. लोकसत्ता, पुणे १५ एप्रिल, २०१८
२०. चांदवडकर, तुषार लेख-वर्तमानाचा वतनदार, दै.सकाळ, रविवार पुरवणी, २९ एप्रिल, २०१८

पूरक वाचनः

२१. सानप, किशोर युगांतराची कविता, ग्रंथाली प्रकाशन, मुंबई
२२. पी. विठ्ठल मराठी कविताःसमकालीन परिदृश्य, कैलाश पब्लिकेशन्स, औरंगाबाद, २०१९
२९. रसाळ, सुधीर काही मराठी कवी : जाणवा आणि शैली, प्रतिमा प्रकाशन, पुणे, १९९६
३०. सुर्वे, कृष्णाबाई नारायण मास्तरांची सावली, डिंपल प्रकाशन, मुंबई

प्रश्नपत्रिकेचे स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks-50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वर थोडक्यात उत्तरे द्या (चार पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वर लघुत्तरी प्रश्न (चार पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १, २ व ३ वर असतील.

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अभ्यासक्रम : Syllabus

June, 2019 onward

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Board of Studies in Marathi

Choice Based Credit System

सत्र-४ : Semester No. IV

Discipline Specific Core Course (DSC-C25) Marathi Paper No. V

विद्याशाखीय विशेष गाभा (DSC-C25) (अभ्यासपत्रिका - ५)

साहित्यकृती : माती, पंख आणि आकाश (आत्मचरित्र)

ज्ञानेश्वर मुळे, मनोविकास प्रकाशन, पुणे, आवृत्ती अकरावी, २०१७

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. आत्मचरित्र या वाङ्मयप्रकाराची ओळख करून घेणे.
२. इतर वाङ्मयप्रकार आणि आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास करणे.
३. आत्मचरित्रकाराच्या व्यक्तिमत्त्वाची जडण-घडण आणि त्याचा समकाल समजून घेणे.
४. वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे.
५. आत्मवृत्तपर लेखन कौशल्ये विकसित करणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	माती, पंख आणि आकाश - जीवनानुभवाचे स्वरूप	१५	१
विभाग २ Module II	माती, पंख आणि आकाश - शैक्षणिक, सामाजिक आणि सांस्कृतिक पर्यावरण	१५	१
विभाग ३ Module III	माती, पंख आणि आकाश - वाङ्मयीन गुणविशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी - आत्मवृत्तलेखनाचे स्वरूप १. आत्मकथन/स्वकथन २. प्रवास वर्णन ३. रोजनिशी	१५	१

मूलभूत वाचनः

१. हातकणंगलेकर, म.द. लेख-अंतःकरणाचा ठाव घेणारे वेगळ्या धाटणीचे आत्मकथन, दै.सकाळ, १ मार्च, १९९८
२. खाडिलकर, मीना लेख-वेगळ्या घाटाचे आत्मचरित्र, दै. तरुण भारत, २६ जुलै, १९९८
३. लोकापुरे, राजू लेख-माती, पंख आणि आकाश, दै. महासत्ता, ३० ऑगस्ट, १९९८
४. लाटकर, मानसी लेख-माती, पंख आणि आकाश, दै. लोकसत्ता, लोकरंग, ६ सप्टें., १९९८
५. कोटीभस्कर, मधुमालती लेख-ललितरम्य शैलीतील आत्मचरित्र, दै. पुढारी, ३१ जाने., १९९९.
६. महांबरे, गंगाधर लेख-मातीतून घेतलेल्या आकाशभरारीची सुरस, सफल आत्मकहाणी, दै.सकाळ, ४ जुलै, १९९९

पूरक वाचनः

८. जोशी, अ. म. चरित्र-आत्मचरित्र, स्नेहवर्धन प्रकाशन, पुणे
९. भोसले, नारायण अविस्मरणीय चरित्र - आत्मचरित्रे, अथर्व पब्लिकेशन, जळगाव
१०. हस्तक, उषा मराठीतील आत्मचरित्रात्मक लेखन, स्नेहवर्धन प्रकाशन, पुणे
११. शानेदिवान, राजेखान खाली जमीन वर आकाश - एक विमर्ष, शब्दवेल प्रकाशन, कोल्हापूर, २००८
१२. काळसेकर, सतीश वाचणाऱ्याची रोजनिशी, लोकवाङ्मयगृह, मुंबई

प्रश्नपत्रिकेचे स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks-50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वर थोडक्यात उत्तरे द्या (तीन पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १, २ व ३ वर असतील.

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June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-४ : Semester No. IV

Discipline Specific Core Course (DSC-C26) Marathi Paper No. 6

विद्याशाखीय विशेष गाभा (DSC-C26) (अभ्यासपत्रिका - ६)

साहित्यकृती : जुगाड (कादंबरी)

किरण गुरव, दर्या प्रकाशन, पुणे, २०१८

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. कादंबरी वाङ्मयप्रकाराची ओळख करून घेणे.
२. समकालीन कादंबरीतील नव्या अवकाशाचा शोध घेणे व आधुनिकतेमधील अंतर्विरोध समजून घेणे.
३. मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. कादंबरीलेखनाचे विशेष अभ्यासणे.
५. वृत्तांतलेखन कौशल्ये रुजविणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	जुगाड - आशयसूत्रे	१५	१
विभाग २ Module II	जुगाड - घटना, प्रसंग आणि व्यक्तिरेखांचे स्वरूप व पर्यावरण	१५	१
विभाग ३ Module III	जुगाड - वाङ्मयीन विशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी - वृत्तांतलेखन : <ul style="list-style-type: none">● वृत्तांतलेखनाचे स्वरूप● वृत्तांतलेखनाचे घटक आणि वैशिष्ट्ये● वृत्तांतलेखकाच्या अंगी आवश्यक गुण● साहित्य/संशोधन/शैक्षणिक स्थळास अभ्यास सहलीद्वारे प्रत्यक्ष भेट देऊन त्यावर आधारित वृत्तांतलेखनाचा सराव करवून घेणे	१५	१

मूलभूत वाचनः

१. थोरात, हरिश्चंद्र लेख- 'आधुनिकतेला सामोरे जाणारे जुगाड' मुक्तशब्द (मासिक), फेब्रु.२०१९
२. खरे, नंदा लेख- 'उद्योगविश्वावर क्ष किरण' दै. लोकसत्ता, रविवार पुरवणी, २०/१/२०१९
३. मुनघाटे, प्रमोद लेख- तरुण पिढीची होरपळ, दै. महाराष्ट्र टाईम्स, रविवार संवाद, १०/२/२०१९

पूरक वाचनः

४. बांदिवडेकर, चंद्रकांत मराठी कादंबरीचा इतिहास, मेहता पब्लिशिंग हाऊस, पुणे, दु.आ., १९९६
५. बांदिवडेकर, चंद्रकांत मराठी कादंबरी चिंतन आणि समीक्षा, मेहता पब्लिशिंग हाऊस, पुणे, दु.आ., १९९६
६. डहाके, वसंत आबाजी दृश्यकला आणि साहित्य, लोकवाङ्मयगृह, मुंबई, २०१३
७. यादव, आनंद साहित्याची निर्मितीप्रक्रिया, मेहता पब्लिशिंग हाऊस, पुणे, तिसरी आ., २००२
८. पाटील, आनंद सृजनात्मक लेखन, पद्मगंधा प्रकाशन, पुणे, २००५
९. इनामदार-साने, रेखा अस्तित्ववाद आणि मराठी कादंबरी, राजहंस प्रकाशन, पुणे, २००४
१०. शेलार, सुधाकर मराठी साहित्य : काही लेखनबंध, स्वरूप प्रकाशन, औरंगाबाद, २०१३
११. पाटील, म. सु. साहित्याचे सामाजिक व सांस्कृतिक अनुबंध, शब्दालय प्रकाशन, श्रीरामपूर, २००१
१२. थोरात, हरिश्चंद्र कादंबरीविषयी, पद्मगंधा प्रकाशन, पुणे
१३. थोरात, हरिश्चंद्र कादंबरी एक साहित्य प्रकार, शब्द प्रकाशन, मुंबई
१४. टापरे, पंडित कादंबरी : संवाद, शब्द प्रकाशन, मुंबई
१५. खोले, विलास गेल्या अर्धशतकातील कादंबरी, लोकवाङ्मयगृह, मुंबई
१६. मोहिते, गणेश समकालीन मराठी कादंबरी, जनशक्ती वाचक चळवळ, औरंगाबाद

प्रश्नपत्रिकेचे स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks-50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वर थोडक्यात उत्तरे द्या (चार पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (चार पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १, २ व ३ वर असतील.

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मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-३ : Semester No. III

Inter Disciplinary Studies (IDS-1) Marathi Paper No. 1

साहित्यकृती : कर्मवीर भाऊराव पाटील (चरित्र)

ए.व्ही.मॅथ्यू, प्रकाशक-सचिव, रयत शिक्षण संस्था, सातारा

(सदर ग्रंथाचा पहिला खंड पृ.क्र. १ ते २९३ पर्यंत अभ्यासक्रमासाठी ग्राह्य असेल)

उद्दिष्ट्ये:

१. मराठीतील चरित्रात्मक वाङ्मयाचा परिचय करून घेणे.
२. चरित्रात्मक वाङ्मयातील चरित्र नायकाच्या व्यक्तित्वाचे पैलू अभ्यासणे.
३. चरित्रात्मक वाङ्मयातून सामाजिक, शैक्षणिक आणि सांस्कृतिक जीवनाची पार्श्वभूमी समजून घेणे.
४. चरित्रात्मक वाङ्मयाधारे राष्ट्रीय एकात्मता आणि मानवी मूल्यांविषयी जाणीव निर्माण करणे.
५. जाहिरात लेखनाची कौशल्ये विकसित करणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	कर्मवीर भाऊराव पाटील यांच्या व्यक्तिमत्त्वाची जडणघडण व व्यक्तित्वाचे पैलू	१५	१
विभाग २ Module II	कर्मवीर भाऊराव पाटील यांचे कार्य	१५	१
विभाग ३ Module III	कर्मवीर भाऊराव पाटील या चरित्र ग्रंथातील वाङ्मयीन विशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी - जाहिरात लेखन १. वृत्तपत्रासाठी जाहिरात लेखन २. आकाशवाणीवरील जाहिरात लेखन ३. चित्रवाणीवरील जाहिरात लेखन	१५	१

मूलभूत वाचनः

१. पाटील, अजित	माणसातील देव, प्रकाशक-मॅकमिलन इंडिया लिमिटेड, पुणे
२. पाटील, अजित	कर्मविरायण, प्रकाशक- सचिव, रयत शिक्षण संस्था, सातारा
३. पवार, बा. ग.	कर्मवीर भाऊराव पाटील, मातृभूमी प्रकाशन, पुणे
४. भोसले, द. ता.	कर्मवीर भाऊराव पाटील,
५. जाधव, रमेश	कर्मवीर भाऊराव पाटील,
६. तोडमल, ह. कि.	कर्मवीर पाटील,
७. पाटील, पी. जी.	कर्मवीरोपनिषद् अर्थात कर्मवीर भाऊराव पाटील यांच्या आठवणी,
८. पाटील, विमल	वटवृक्ष,
९. पाटणे, संभाजीराव	त्यागमूर्ती कर्मवीर भाऊराव,

पूरक वाचनः

११. जोशी, अ. म.	चरित्र-आत्मचरित्र, स्नेहवर्धन प्रकाशन, पुणे
१२. भोसले, नारायण	अविस्मरणीय चरित्र - आत्मचरित्रे, अथर्व पब्लिकेशन, जळगांव
१३. नसिराबादकर, ल. रा.	व्यवहारोपयोगी मराठी, फडके प्रकाशन, कोल्हापूर, १९९४
१४. घोरपडे, अक्षय	संवाद आणि लेखन कौशल्ये, प्रशांत पब्लिकेशन, जळगांव, २०१९
१५. तौर, पृथ्वीराज (संपा.)	मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन, धुळे, २०१८
१६. जोशी, प्रभाकर व वले, वासुदेव	उपयोजित मराठी भाग १, प्रशांत पब्लिकेशन, जळगांव, २०१७
१७. जोशी, प्रभाकर	उपयोजित मराठी, प्रशांत पब्लिकेशन, जळगांव, २०१७
१८. कुंभार, प्रकाश	उपयोजित भाषाविज्ञान आणि प्रसारमाध्यमे, अक्षरदालन, कोल्हापूर, २०१८

प्रश्नपत्रिकेचे स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks-50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वर थोडक्यात उत्तरे द्या (चार पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १, २ व ३ वर असतील.

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Board of Studies in Marathi

Choice Based Credit System

सत्र-४ : Semester No. IV

Inter Disciplinary Studies (IDS-2) Marathi Paper No. 2

साहित्यकृती : आटपाटनगरीच्या कथा (कथासंग्रह)

द.ता. भोसले, ग्रंथाली प्रकाशन, मुंबई, २०१८

उद्दिष्ट्ये:

१. मराठी कथा वाङ्मयाचा उगम, विकास व स्वरूप अभ्यासणे.
२. लोककथेचे रचनाविशेष आणि आजची प्रयोगशील कथा यांचा परस्पर अनुबंध अभ्यासणे.
३. वर्तमानातील प्रश्न लोककथांचे तंत्र व आविष्कार पद्धतीद्वारे कसे मांडले जातात याचा अभ्यास करणे.
४. मुलाखतलेखन तंत्र विकसित करणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	आटपाटनगरीच्या कथा - आशयसूत्रे	१५	१
विभाग २ Module II	आटपाटनगरीच्या कथा - मिथकातून उलगडणारे समकालीन वास्तव	१५	१
विभाग ३ Module III	आटपाटनगरीच्या कथा - वाङ्मयीन विशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी - मुलाखतलेखन तंत्र १. मुलाखतीची पूर्वतयारी २. वृत्तपत्रासाठी मुलाखतलेखन ३. आकाशवाणीवरील मुलाखत ४. दूरचित्रवाणीवरील मुलाखत	१५	१

मूलभूत वाचनः

१. पंचभाई, विनोद लेख-एक विलक्षण कलाकृती:आटपाटनगरीच्या कथा,चपराक (मासिक), सप्टेंबर, २०१५
२. जवंजाळ, सुनिल लेख-जगण्याला श्रीमंत करणाऱ्या विचारांची संपत्ती म्हणजे आटपाटनगरीच्या कथा, दै.एकमत, ७ फेब्रु. २०१६
३. काळे, चांगदेव ग्रंथपरिचय, शब्दरुची (मासिक), सप्टें., २०१५
४. कदम, महेंद्र लेख-आटपाटनगरीच्या कथा, म.सा.प. पुणे, ऑक्टों., २०१८

पूरक वाचनः

५. जोशी, सुधा कथा : संकल्पना आणि समीक्षा, मौज प्रकाशन, मुंबई
६. जाधव, रा. ग. मराठीतील कथारूपे, स्नेहवर्धन पब्लिशिंग हाऊस, पुणे, १९९९
७. ऐनापुरे, जी. के. मराठी कथा : मूल्य आणि ज्हास, ललित पब्लिकेशन, मुंबई, २०१८
८. बेंडखळे, अशोक मराठी कथा : परंपरा आणि नवता (अक्षरयात्रा), राजा प्रकाशन, मुंबई
९. हातकणंगलेकर, म. द. मराठी कथा : रूप आणि परिसर, श्रीविद्या प्रकाशन, पुणे
१०. टापरे, पंडित कथा : रूप आणि आस्वाद, नीहारा प्रकाशन, पुणे
११. नसिराबादकर, ल. रा. व्यवहारोपयोगी मराठी, फडके प्रकाशन, कोल्हापूर, १९९४
१२. घोरपडे, अक्षय संवाद आणि लेखन कौशल्ये, प्रशांत पब्लिकेशन, जळगांव, २०१९
१३. तौर, पृथ्वीराज (संपा.) मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन, धुळे, २०१८
१४. जोशी, प्रभाकर व वले, वासुदेव उपयोजित मराठी भाग १, प्रशांत पब्लिकेशन, जळगांव, २०१७
१५. जोशी, प्रभाकर उपयोजित मराठी, प्रशांत पब्लिकेशन, जळगांव, २०१७
१६. कुंभार, प्रकाश उपयोजित भाषाविज्ञान आणि प्रसारमाध्यमे, अक्षरदालन, कोल्हापूर, २०१८
१७. बागाडे, जयप्रकाश मुलाखत तंत्र व मंत्र, साकेत प्रकाशन, औरंगाबाद

प्रश्नपत्रिकेचे स्वरूप

Pattern of Question Paper

एकूण गुण - ५० : Total Marks-50

प्रश्न १	योग्य पर्याय निवडा	१० गुण
प्रश्न २	विभाग १ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ३	विभाग २ वरील अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न (दोन पैकी एक)	१० गुण
प्रश्न ४	विभाग ३ वर थोडक्यात उत्तरे द्या (चार पैकी दोन)	१० गुण
प्रश्न ५	विभाग ४ वरील लघुत्तरी प्रश्न (तीन पैकी दोन)	१० गुण

टीप : प्रश्न क्र. १ मधील वस्तुनिष्ठ प्रश्न विभाग १, २ व ३ वर असतील.

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Bachelor of Arts
B.A. Part-III - MARATHI
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मराठी अभ्यास मंडळ

Board of Studies in Marathi
पसंतीवर आधारित श्रेयांक पद्धती
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बी.ए. भाग-३ (मराठी) : B.A. Part-III (Marathi)

अभ्यासक्रम : Syllabus

Introduced from June 2020 onwards

समकक्षता / Equivalence

		जुना अभ्यासक्रम		नवा अभ्यासक्रम
सत्र क्र. Sem.	अभ्यास- पत्रिका क्र. Paper No.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	अभ्यासपत्रिकेचे नाव
V	VII	काव्यशास्त्र	VII	साहित्यविचार
V	VIII	भाषाविज्ञान आणि मराठी भाषा	VIII	मराठी भाषा व भाषाविज्ञान
V	IX	मराठी वाङ्मयाचा इतिहास	IX	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स.१५००)
V	X	मराठी भाषा : उपयोजन आणि सर्जन	X	मराठी भाषा व अर्थार्जनाच्या संधी
V	XI	वाङ्मयप्रवाहांचे अध्ययन (ग्रामीण साहित्य)	XI	वाङ्मयप्रवाहाचे अध्ययन : मध्ययुगीन
VI	XII	काव्यशास्त्र	XII	साहित्यविचार
VI	XIII	भाषाविज्ञान आणि मराठी भाषा	XIII	मराठी भाषा व भाषाविज्ञान
VI	XIV	मराठी वाङ्मयाचा इतिहास	XIV	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते १८००)
VI	XV	मराठी भाषा : उपयोजन आणि सर्जन	XV	मराठी भाषा व अर्थार्जनाच्या संधी
VI	XVI	वाङ्मयप्रवाहांचे अध्ययन (दलित साहित्य)	XVI	वाङ्मयप्रकाराचे अध्ययन : ललित गद्य (व्यक्तिचित्रे)

सूचना : १. सत्र पाच (V) साठी विद्यापीठाने प्रत्येक अभ्यासपत्रिकेनुरूप अंतर्गत मूल्यमापनासाठी १० गुणांसाठी सेमिनार सुचविला आहे. सदर सेमिनारसाठी त्या त्या अभ्यासपत्रिकेच्या अभ्यासक्रमानंतर सेमिनार विषय दिले आहेत. त्यापैकी एका विषयावर प्रत्येक विद्यार्थ्याने सादरीकरण करणे आवश्यक आहे. त्यामध्ये विषयानुसार उद्दिष्टे, प्रास्ताविक, विषयविवेचन, निष्कर्ष आणि संदर्भ या सूत्रानुरूप सादरीकरण गरजेचे आहे. ज्या विषयावर सेमिनार दिला आहे त्याची टिपणे विद्यार्थी व संबंधित विषय शिकविणाऱ्या शिक्षकांच्या स्वाक्षरीसह महाविद्यालयाच्या विभागात जतन करून ठेवणे आवश्यक आहे.

२. सत्र सहा (VI) साठी विद्यापीठाने प्रत्येक अभ्यासपत्रिकेनुरूप अंतर्गत मूल्यमापनासाठी १० गुणांचा गटप्रकल्प (Group Project) सूचविला आहे. सदर गटप्रकल्पासाठी त्या त्या अभ्यासपत्रिकेच्या अभ्यासक्रमानंतर गटप्रकल्प विषय सुचविले आहेत. त्यापैकी एका विषयावर गटप्रकल्प सादर करणे आवश्यक. गटप्रकल्प तयार करताना शीर्षक, उद्दिष्टे, प्रास्ताविक, गहीतके, विषयाचे महत्त्व, विषयविवेचन, निष्कर्ष आणि संदर्भ या क्रमाने गटप्रकल्प तयार करावा. एका गटप्रकल्पासाठी कमाल ५ विद्यार्थी मर्यादा असावी. ज्या विषयावर गटप्रकल्प तयार केला आहे; त्यावर गटप्रकल्पकांची व संबंधित विषय शिकविणाऱ्या शिक्षकांची स्वाक्षरी घेऊन सदर प्रकल्प विभागात जतन करून ठेवावेत.

३. सेमिनार व गटप्रकल्पसंदर्भात विषयाची निवड करताना विद्यापीठाने सूचित केलेल्या विषयाबरोबर त्या त्या अभ्यासपत्रिकेनुरूप आणखी काही नावीन्यपूर्ण विषयांची निवड करण्यास स्वातंत्र्य दिले आहे.

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मराठी अभ्यास मंडळ

Board of Studies in Marathi
पसंतीवर आधारित श्रेयांक पद्धती
Choice Based Credit System

Structure of Programme

Revised syllabus B. A. Part III (MARATHI)

Introduced from June 2020 onwards

Sr.No.	सत्र क्र. Sem.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	Workload	Credits	Total Credits	Theory Marks	Term work/ Seminar
1	V	साहित्यविचार	VII	4 lectures/ week	4	20	40	10
2	V	मराठी भाषा व भाषाविज्ञान	VIII	4 lectures/ week	4		40	10
3	V	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स.१५००)	IX	4 lectures/ week	4		40	10
4	V	मराठी भाषा व अर्थार्जनाच्या संधी	X	4 lectures/ week	4		40	10
5	V	वाङ्मयप्रवाहाचे अध्ययन : मध्ययुगीन	XI	4 lectures/ week	4		40	10
Sr.No.	सत्र क्र. Sem.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	Workload	Credits	Total Credits	Theory Marks	Term work/ Group project
6	VI	साहित्यविचार	XII	4 lectures/ week	4	20	40	10
7	VI	मराठी भाषा व भाषाविज्ञान	XIII	4 lectures/ week	4		40	10
8	VI	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते १८००)	XIV	4 lectures/ week	4		40	10
9	VI	मराठी भाषा व अर्थार्जनाच्या संधी	XV	4 lectures/ week	4		40	10
10	VI	वाङ्मयप्रकाराचे अध्ययन : ललितगद्य (व्यक्तिचित्रे)	XVI	4 lectures/ week	4		40	10

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Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-५ : Semester No. V : अभ्यासपत्रिका क्र. VII

Discipline Specific Elective (DSE-E1)

विद्याशाखीय विशेष निवड (DSE-E1)

साहित्यविचार

उद्दिष्टे :

१. पौर्वात्य, पाश्चात्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजून घेणे.
२. ललित व ललितेतर साहित्याचे स्वरूप समजून घेणे.
३. साहित्य प्रयोजनांचे आकलन करून घेणे.
४. साहित्याची निर्मितिप्रक्रिया आणि त्याचे स्वरूप आकलन करून घेणे.
५. भाषेतील अलंकार समजून घेणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	<p>साहित्याचे स्वरूप</p> <p>■ साहित्याच्या व्याख्या</p> <ul style="list-style-type: none">● पौर्वात्य - भामह, मम्मट, आनंदवर्धन, विश्वनाथ● पाश्चात्य - वर्डस्वर्थ, कोर्टहोप, मॅथ्यू अर्नोल्ड, कार्लाइल● आधुनिक - विनोबा भावे, अ. वा. कुलकर्णी, गंगाधर गाडगीळ, वि. ना. ढवळे, <p>■ ललित व ललितेतर साहित्य</p> <p>■ ललित साहित्यातून व्यक्त होणाऱ्या अनुभवांचे विशेष-संवेदनात्मकता, भावनात्मकता, वैचारिकता, सेंद्रियता, सूचकता, विशिष्टता, विश्वात्मकता</p>	१५	१

विभाग २ Module 2	<p>साहित्याचे प्रयोजन</p> <ul style="list-style-type: none"> ● प्रयोजन म्हणजे काय ? ● प्रयोजन आणि परिणाम यातील फरक ■ साहित्याची प्रयोजने : <p>१) यश किंवा कीर्ती २) व्यवहारज्ञान ३) आनंद ४) उद्बोधन ५) आत्माविष्कार ६) जिज्ञासापूर्ती ७) जीवनानुभूती ८) इच्छापूर्ती अथवा स्वप्नरंजन ९) पलायनवाद (Escapism)</p>	१५	१
घटक ३ Module 3	<p>साहित्यनिर्मितीची कारणे</p> <ul style="list-style-type: none"> ● साहित्यनिर्मितीचे स्वरूप ● साहित्यनिर्मितीची कारणे <p>१) प्रतिभा - स्वरूप व वैशिष्ट्ये (प्रतिभाव्यापार, प्रतिभेचे अलौकिकत्व, अपूर्वनिर्मितिक्षम प्रतिभा, प्रतिभा ही वेडाची बहीण) २) बहुश्रुतता ३) अभ्यास ४) भावनात्मकता ५) संवेदनशीलता ६) उत्प्रेक्षा ७) चमत्कृती ८) स्वास्थ्य (शारीरिक, मानसिक) ९) साहित्यिकाचा जीवनविषयक दृष्टिकोण</p>	१५	१
घटक ४ Module 4	<p>अलंकार</p> <p>१) अतिशयोक्ती २) स्वभावोक्ती ३) दृष्टान्त ४) उपमा ५) अनुप्रास ६) रूपक (व्याख्या, स्वरूप आणि उदाहरणे अपेक्षित)</p>	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	अलंकार (चार पैकी दोन)	१० गुण

सूचना :

१. विभाग चार वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

सेमिनार विषय :

- विविध साहित्य प्रवाहातील कोणत्याही एका साहित्यकृतीचे किंवा अनुवादित साहित्यकृतीचे परीक्षण करून सादरीकरण करणे.
- कोणत्याही भाषेतील एका चित्रपट वा नाटकाचे परीक्षण करून सादरीकरण करणे.

मूलभूत वाचन :

१. जोग, रा. श्री. अभिनव काव्यप्रकाश, व्हीनस प्रकाशन, पुणे, आवृत्ती ७ वी, १९७५
२. गाडगीळ, स. रा. काव्यशास्त्रप्रदीप, व्हीनस प्रकाशन, पुणे, आवृत्ती ४ थी, जानेवारी, १९९३
३. गोविलकर, लीला भारतीय साहित्यविचार, स्नेहवर्धन, पुणे, २००३
४. वाळंबे, मो. रा. सुगम मराठी व्याकरण, नितीन प्रकाशन, पुणे
५. देशपांडे, अ. ना. (संपा.) विनोबांची साहित्यदृष्टी, परमधाम प्रकाशन, पवनार, वर्धा, १९७५
६. कुलकर्णी, अ. वा. साहित्यविचार, प्रतिमा प्रकाशन, पुणे, आ.दु. १९९७
७. गाडगीळ, गंगाधर खडक आणि पाणी, पॉप्युलर प्रकाशन, मुंबई, १९६०.
८. ढवळे, वि. ना. साहित्याचे तत्त्वज्ञान, कॉन्टिनेन्टल प्रकाशन, पुणे

पूरक वाचन :

१. उपासे, शिवशंकर काव्यशास्त्र परिचय, फडके प्रकाशन, कोल्हापूर, २०१३
२. कंगले, र. पं. प्राचीन काव्यशास्त्र, मौज प्रकाशन, मुंबई, १९७४
३. देशमुख, मा. गो. मराठीचे साहित्यशास्त्र, (ज्ञानेश्वर ते रामदास)
४. डॉ. नगेंद्र भारतीय काव्यशास्त्राचे मूल प्रश्न, सुविचार, नागपूर, पुणे, १९६७
(अनुवादक : शैलजा करंदीकर)

संदर्भ ग्रंथ :

१. जाधव, उदय काव्यशास्त्र : आकलन आणि आस्वाद, लोकपाल पब्लिकेशन, औरंगाबाद प्रथमावृत्ती, ५ सप्टेंबर, २०१३
२. पुंडे, दत्तात्रय व तावरे, स्नेहल (संपा.) साहित्य विचार, स्नेहवर्धन प्रकाशन, पुणे, प्रथमावृत्ती, फेब्रुवारी, १९९५
३. पाटील, म. सु. भारतीयांचा साहित्यविचार, चेतश्री प्रकाशन, अमळनेर
४. वासमकर, वि. दा. मराठीतील कलावादी समीक्षा, अक्षरदीप प्रकाशन, कोल्हापूर, आ. प. २०१८
५. करंदीकर, गो. वि. ऑरिस्टॉटलचे काव्यशास्त्र, पॉप्युलर प्रकाशन, मुंबई
६. जाधव, मा. मा. अक्षरगाथा (मराठी साहित्यविचार विशेषांक) मासिक, नांदेड, एप्रिल, २०१४

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Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-५ : Semester No. 5 : अभ्यासपत्रिका क्र. VIII

Discipline Specific Elective (DSE-E2)

विद्याशाखीय विशेष निवड (DSE-E2)

मराठी भाषा व भाषाविज्ञान

उद्दिष्टे :

१. भाषोत्पत्तीचा अभ्यास करणे.
२. भाषाविज्ञानाचा परिचय करून घेणे.
३. भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेणे.
४. स्वनविचार, रूपविचार व वाक्यविचारांचा परिचय करून घेणे.
५. मराठी भाषेविषयी विद्यार्थ्यांची आवड विकसित करणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	भाषोत्पत्ती विचार ● भाषेची उत्पत्ती – ईश्वरनिर्मित, राजनिर्मित, समाजनिर्मित ● भाषेच्या उत्पत्तीच्या उपपत्ती/सिद्धांत १. इंगित (Gesture) २. मुखाभिनय (Oral Gesture) ३. अनुकरण (Bow-Bow) ४. रणन (Ding Dong) ५. भावनाभिव्यक्ती (Pooh-Pooh) ६. श्रमपरिहार (Yo-he-Yo) ७. प्रेमगानमूलक (Sing-Song) ८. संपर्क (Contact) ९. क्रीडासक्ती (Play-Way) १०. समन्वय उपपत्ती/सिद्धांत	१५	१
विभाग २ Module II	भाषेचे स्वरूप, व्याख्या आणि वैशिष्ट्ये ● भाषा म्हणजे काय ? ● भाषेच्या व्याख्या : कृ. पां. कुलकर्णी, ना. गो. कालेलकर, श्री. न. गजेंद्रगडकर ● भाषेचे स्वरूप : समाजव्यवहाराचे साधन, ध्वनिमाध्यमता, प्रतीकात्मकता, संकेतबद्धता, भाषा – एक पद्धती, भाषा मानवी आहे. ● सी. एफ. हॉकेटने सांगितलेली भाषेची सात वैशिष्ट्ये दुहेरीपण, निर्मितक्षमता, कार्यकारण संबंधाचा अभाव, यादृच्छिकता, अदलाबदलीची शक्यता, विशिष्टीकरण, स्थलकालातीतता, सांस्कृतिक संक्रमण या शिवाय – सामाजिक संस्था, अर्जित भाषा, परिवर्तनशीलता, रैखिकता इ. वैशिष्ट्यांचा विचार	१५	१

विभाग ३ Module III	स्वनिम व रूपिम विचार (स्थूल परिचय) अ. स्वनिम विचार १. स्वन २. स्वनिम ३. स्वनांतर (संकल्पना, स्वरूप, प्रकार) ब. रूपिम विचार १. रूप २. रूपिम ३. रूपिकांतर (संकल्पना, स्वरूप, प्रकार)	१५	१
विभाग ४ Module IV	वाक्यविचार ● पदबंध व वाक्याचे स्वरूप ● वाक्याचे प्रकार केवलवाक्य व त्याचे प्रकार, मिश्रवाक्य व त्याचे प्रकार, संयुक्त वाक्य व त्याचे प्रकार, वाक्याचे पृथक्करण	१५	१

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना :

१. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

सेमिनार विषय :

- स्वन-स्वनिम, रूप-रूपिम पैकी कोणत्याही एका घटकाच्या अनुषंगाने प्रात्यक्षिकांसह सादरीकरण अपेक्षित.
- कोणत्याही एका साहित्यकृतीच्या निवडक भागातील वाक्यांचे प्रकार, पृथक्करण, विश्लेषणासह सादरीकरण अपेक्षित.

मूलभूत वाचन :

१. जोशी, प्र. न. सुबोध भाषाशास्त्र, स्नेहवर्धन प्रकाशन, पुणे
२. गवळी, अनिल भाषाविज्ञान आणि मराठी भाषा, हिरण्यकेशी प्रकाशन, कोल्हापूर
३. धोंगडे, रमेश भाषा आणि भाषाविज्ञान, दिलीपराज प्रकाशन, पुणे
४. कानडे, मु. श्री. (संपा.) मराठीचा भाषिक अभ्यास, स्नेहवर्धन प्रकाशन, पुणे
५. गर्जेन्द्रगडकर, श्री. न. भाषा आणि भाषाशास्त्र, व्हीनस प्रकाशन, पुणे
६. हिरेमठ, राजशेखर मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे
७. Hocket C.F. A course in Modern Linguistics, Oxford, New York, 1958

पूरक वाचन :

१. कुलकर्णी, कृ. पां. मराठी भाषा : उद्गम आणि विकास, मेहता पब्लिशिंग हाऊस, पुणे
२. मालशे, मिलिंद आधुनिक भाषाविज्ञान : सिद्धांत आणि उपयोजन, लोकवाङ्मयगृह, मुंबई
३. कुलकर्णी, सुलक्षणा व भाषाविज्ञान परिचय, फडके प्रकाशन, कोल्हापूर
कुबेर, वसंत
४. दामले, मो. के. शास्त्रीय मराठी व्याकरण, दामोदर सावळाराम आणि मंडळी, पुणे

संदर्भ ग्रंथ :

१. मालशे, पुंडे, सोमण (संपा.) भाषाविज्ञानपरिचय, पद्मगंधा प्रकाशन, पुणे
२. पुंडे, द. दि. सुलभ भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे
३. कदम, महेंद्र मराठीचे वर्णनात्मक भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे
४. काळे, कल्याण/सोमण, अंजली (संपा.) आधुनिक भाषाविज्ञान, प्रतिमा प्रकाशन, पुणे
५. पाटील, व्ही. एन. सुलभ भाषाविज्ञान व मराठी व्याकरण, प्रशांत पब्लिकेशन्स, जळगाव,
आ.दु. २, २०१६
६. भांड, बाबा व मगर, राजेंद्र भाषा आणि साहित्य, माझी भूमिका : सयाजीराव गायकवाड, महाराजा
सयाजीराव गायकवाड संशोधन व प्रशिक्षण संस्था, औरंगाबाद, २०२०
७. लामतुरे, प्रज्ञा ग्रामीण बोलीभाषेचे वैभव, संस्कृती प्रकाशन, पुणे, २०१२
८. जाधव, मा. मा. (संपा.) अक्षरगाथा (मराठी भाषा विशेषांक), मासिक, नांदेड, ऑक्टोबर, २०१३

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-५ : Semester No. 5 : अभ्यासपत्रिका क्र. IX

Discipline Specific Elective (DSE-E3)

विद्याशाखीय विशेष निवड (DSE-E3)

मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स.१५००)

उद्दिष्टे :

१. मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास करणे.
२. मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय करून घेणे.
३. मध्ययुगीन मराठी वाङ्मयाचे स्वरूप, वैशिष्ट्ये अभ्यासणे.
४. मध्ययुगीन मराठी वाङ्मयातील महत्त्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय करून घेणे.
५. मध्ययुगीन मराठी वाङ्मयाच्या गद्य, पद्य रचनेचे विशेष अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	■ मराठी वाङ्मयाचा प्रारंभकाळ ते इ.स. १२०० पर्यंत अ) विवेकसिंधूपूर्वकालीन रचना कुवलयमाला, मानसोल्लास, राजमतिप्रबोध, अमरनाथ संवाद, गोरक्षगीता इ. ब) मराठीतील आद्य ग्रंथकार मुकुंदराज यांची रचना विवेकसिंधू, पवनविजय, परमामृत क) मराठीतील आद्य कवयित्री महदंबा यांची रचना धवळे (पूर्वार्ध व उत्तरार्ध), मातृकी रुक्मिणीस्वयंवर	१५	१
विभाग २ Module II	■ इ. स. १२०० ते १३०० (स्थूल कालखंड) अ) महानुभावीय गद्य वाङ्मय म्हाडंभट - लीळाचरित्र, श्री. गोविंदप्रभूचरित्र व इतर रचना केसोबास - सूत्रपाठ, दृष्टांतपाठ, स्मृतिस्थळ	१५	१

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग २ Module II	ब) महानुभावीय पद्य वाङ्मय सातीग्रंथ (ग्रंथ व ग्रंथकार स्थूल परिचय) नरेंद्र - रुक्मिणी स्वयंवर भास्करभट्ट बोरीकर - शिशुपालवध, उद्धवगीता किंवा एकादशस्कंध दामोदर पंडित - वछाहरण पंडित विश्वनाथ - ज्ञानप्रबोध खळोव्यास - सह्याद्रिवर्णन नारायणपंडित - श्री ऋद्धिपूरवर्णन	१५	१
विभाग ३ Module III	इ. स. १३०० ते १४०० (स्थूल कालखंड) अ) ज्ञानेश्वरांचे वाङ्मयीन कार्य ज्ञानेश्वरी, अमृतानुभव, चांगदेवपासष्टी, हरिपाठाचे अभंग व इतर रचना ब) नामदेवांची अभंगरचना क) सावता माळी, गोरोबा कुंभार, मुक्ताबाई, सेना महाराज, नरहरी सोनार, चोखामेळा, जनाबाई, कान्होपात्रा यांच्या रचना	१५	१
विभाग ४ Module IV	इ. स. १४०० ते १५०० (स्थूल कालखंड) अ) अन्य संप्रदायातील प्रमुख ग्रंथकार आणि त्यांची ग्रंथरचना सत्यमालनाथ, चोंभा (नाथ संप्रदाय) शांतलिंग आणि मन्मथशिवलिंग (लिंगायत संप्रदाय) गुणकीर्ती व जिनदासनामा (जैन मराठी कवी) नृसिंह सरस्वती आणि दासोपंत (दत्त संप्रदाय) अज्ञानसिद्ध व बहिराजातवेद (नागेश संप्रदाय) शेख महंमद आणि हुसेन अंबरखान (मुस्लीम मराठी कवी) फादर स्टीफन्स, फादर क्रुवा (ख्रिस्ती मराठी कवी)	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना :

१. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

सेमिनार विषय :

- १) मध्ययुगीन मराठी वाङ्मयातील कोणत्याही एका ग्रंथकाराच्या रचना विशेषावर सादरीकरण.
- २) कोणत्याही एका संत कवीच्या काव्यातील सामाजिकतेवर सादरीकरण.
- ३) कोणत्याही एका संत कवयित्रीच्या कवितेतील आत्मनिष्ठा यावर आधारित सादरीकरण.

मूलभूत वाचन :

१. नसिराबादकर, ल. रा.
२. पठाण, यू. म.
३. देशपांडे, अ. ना.
४. पांगारकर, ल. रा.
५. पसारकर, शे. दे.

प्राचीन मराठी वाङ्मयाचा इतिहास, फडके प्रकाशन, कोल्हापूर
महानुभाव साहित्य संशोधन खंड १, मराठवाडा विद्यापीठ प्रकाशन, औरंगाबाद
प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ४
प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ३, महाराष्ट्र साहित्य परिषद
प्रकाशन, पुणे
वेलू गोला गगनावरी, सुविद्या प्रकाशन, सोलापूर

पूरक वाचन :

१. शेणोलीकर, ह. श्री.
२. पांगारकर, ल. रा.
३. तुळपुळे, शं. गो.
४. मांडवकर, भाऊ
५. इनामदार, हे. वि. (संपा.)
६. उपासे, शिवशंकर
७. उपासे, शिवशंकर (संपा.)
८. पसारकर, शे. दे. (संपा.)
९. केळुसकर, कृष्णराव
१०. फाटक, न. र.
११. परमार्ग सेवक श्री बाळकृष्णशास्त्री
महानुभाव

प्राचीन मराठी वाङ्मयाचे स्वरूप, व्हीनस प्रकाशन, पुणे
मराठी वाङ्मयाचा इतिहास खंड १ व २,
मराठी वाङ्मयाचा इतिहास, महाराष्ट्र साहित्य परिषद, पुणे
संत नामदेव दर्शन, सेवा प्रकाशन, अमरावती
संत नामदेव काव्यसंभार आणि संत परिवार
महाराष्ट्र भूषण सहा संत साहित्यिक, फडके प्रकाशन, कोल्हापूर, २०१२
शांतलिंगकृत कर्णहंस, प्रका. शरण संस्कृती अध्ययन केंद्र, सिद्ध संस्थान
मठ, निडसोसी, ता. हुक्करी, जि. बेळगाव
श्री मन्मथशिवलिंगकृत परमरहस्य, शैवभारती शोध प्रतिष्ठान, वाराणसी, २००१
संत तुकाराम, साकेत प्रकाशन, औरंगाबाद
श्री एकनाथ : वाङ्मय आणि कार्य, मौज प्रकाशन गृह, मुंबई
महानुभावपंथ, प. पू. मधुकरशास्त्री कवीश्वर, पंचकमिटी संस्थान,
श्री देवदेवेश्वर, माहूर, आ. आठवी, २०१४

संदर्भ ग्रंथ :

१. देऊळगावकर, चंद्रकांत (संपा.)
१. पाटील, तानाजी
२. सुंठणकर, बा. र.
३. सरदार, गं. बा.
४. जाधव, रा. ग.
५. जाधव, रा. ग.
६. कामत, अशोक व बडवे, सतीश (संपा.)
७. देशमुख, उषा
८. पाटील, सदाशिव
९. घोणसे, शामा
१०. प्रियोळकर, अ. का.
११. ढेरे, रा. चिं.
१२. पठाण, यू. म.
१३. मोरजे, गंगाधर
१४. उपाध्ये, बाबुराव
१५. इल्लेकर, सुहासिनी
१६. अक्कोळे, सुभाषचंद्र
१७. पाटंगणकर, विद्यासागर
१८. होनमाने, धनंजय

मन्मथस्वामी व्यक्ती आणि वाङ्मय, प्रका. शैवभारती शोध प्रतिष्ठान,
जंगमवाडी मठ, वाराणसी
संत साहित्यातील सामाजिकता, विश्वकर्मा पब्लिकेशन, पुणे
महाराष्ट्रीय संतमंडळीचे ऐतिहासिक कार्य, बेळगाव
संत वाङ्मयाची सामाजिक फलश्रुती, म. सा. प. पुणे
आनंदाचा डोह, प्राज्ञ पाठशाळा मंडळ, वाई
वागर्थ, प्रतिमा प्रकाशन, पुणे
संत नामदेवविषयक अभ्यास, आळंदी
मांदियाळी, माया प्रकाशन, नागपूर
तुकाराम आणि कबीर, दर्या प्रकाशन, पुणे
वीरशैवांचे मराठी-हिंदी वाङ्मय : एक अभ्यास, शैवभारती शोध प्रतिष्ठान,
जंगमवाडी मठ, वाराणसी
मुसलमानांची जुनी मराठी कविता
मुसलमान मराठी संतकवी, पद्मगंधा प्रकाशन, पुणे
मुसलमान (सुफी) संतांचे मराठी साहित्य
मराठी ख्रिस्ती वाङ्मय, फादर स्टिफन्स ते १९६०, अहमदनगर
संत गोरा कुंभार : वाङ्मय दर्शन, स्नेहवर्धन प्रकाशन, पुणे
संत कवी आणि कवयित्री : एक अनुबंध, स्नेहवर्धन प्रकाशन, पुणे
प्राचीन मराठी जैन साहित्य, सुविचार प्रकाशन, नागपूर
मराठी संत कवयित्रींचा इतिहास, साहित्य अकादमी, नवी दिल्ली
तंजावरची मराठी कीर्तनपरंपरा, स्नेहवर्धन, पुणे, २०१७

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-५ : Semester No. V : अभ्यासपत्रिका क्र. X

Discipline Specific Elective (DSE-E4)

विद्याशाखीय विशेष निवड (DSE-E4)

मराठी भाषा व अर्थार्जनाच्या संधी

पाठ्यपुस्तक : मराठी भाषा व अर्थार्जनाच्या संधी (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. सर्जनशील लेखनप्रक्रिया समजून घेणे.
२. वैचारिक लेखनाचे स्वरूप अभ्यासणे.
३. शोधनिबंध व प्रकल्पलेखन कौशल्य समजून घेणे.
४. आंतरजालावरील मराठी लेखनपद्धती अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	सर्जनशील लेखन ■ सर्जनशील लेखन – संकल्पना व स्वरूप ● कथा – संकल्पना, स्वरूप ● कथेचे घटक ● प्रात्यक्षिकासह कथालेखन	१५	१
विभाग २ Module II	वैचारिक लेखन ● वैचारिक लेखन : संकल्पना व स्वरूप ● वैचारिक लेखनाची पद्धत ● वैचारिक लेखनाचे प्रकार ● प्रात्यक्षिकासह वैचारिक लेखन	१५	१

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग ३ Module III	<p>शोधनिबंध व प्रकल्पलेखन (स्थूल परिचय)</p> <ul style="list-style-type: none"> ● संशोधन : संकल्पना, स्वरूप, महत्त्व ● संशोधनपर लेखनप्रकार परिचय १. शोधनिबंध – स्वरूप व पद्धती २. संशोधन प्रकल्प – स्वरूप व पद्धती ३. प्रबंधिका ४. प्रबंध ● संशोधनपर लेखनाची पथ्ये व भाषा 	१५	१
विभाग ४ Module IV	<p>आंतरजालावरील (Internet) मराठी</p> <ul style="list-style-type: none"> ● आंतरजालावरील मराठीविषयक लेखनाचे स्वरूप ● नोंदी लेखन, विश्वकोश, विकिपीडिया इ. ● आंतरजालावरील मराठी संकेतस्थळांचा परिचय १. राज्य मराठी विकास संस्था २. महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ ३. भाषा संचालनालय ४. मराठी भाषा विभाग, महाराष्ट्र शासन ५. मराठी साहित्य परिषद, पुणे ६. विश्वकोश मंडळ ७. इतर संकेतस्थळे – साहित्य अकादमी, नॅशनल बुक ट्रस्ट, भारतीय भाषा संस्थान, म्हैसूर इ. ● प्रात्यक्षिकासह आंतरजालावर मराठीविषयक लेखन 	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण – ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. प्रश्न क्र. ४ मध्ये ४ पैकी २ प्रश्न उपयोजनावर आधारित असतील.

२. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

सेमिनार विषय :

१. भाषा, साहित्य, संस्कृती व माध्यमविषयक कोणत्याही एका विषयावर शोधनिबंधाचे सादरीकरण करणे.

मूलभूत वाचन :

१. जोशी, सुधा कथा संकल्पना आणि समीक्षा, मौज प्रकाशन, मुंबई, २००२
२. सारंग, विलास सर्जनशोध आणि लिहिता लेखक, मौज प्रकाशन, मुंबई
३. मालशे, मिलिंद (संपा.) शोधनिबंधाची लेखनपद्धती (सुधारित आवृत्ती) लोकवाङ्मय गृह, मुंबई
४. पाटील, आनंद सृजनात्मक लेखन, पद्मगंधा प्रकाशन, पुणे, २००९
५. काळे, कल्याण, पुंडे, द. दि. व्यावहारिक मराठी, निराली प्रकाशन, पुणे, २००७
६. वेलणकर, जयंत प्रबंध कसा लिहावा, साहित्य प्रसारक केंद्र, नागपूर
७. कऱ्हाडे, सदा संशोधन : सिद्धांत आणि पद्धती, लोकवाङ्मय गृह, मुंबई
८. चुनेकर, सु. रा. व पठारे, रंगनाथ (संपा.) संशोधन स्वरूप आणि पद्धती, शि. प्र. संस्था, संगमनेर
९. वरखेडे, रमेश नारायण व वरखेडे, मंगला रमेश संशोधनाचे पद्धतिशास्त्र, उग्रामण्ये इन्स्टिट्यूट ऑफ एज्युकेशन, एक्सलन्स, पुणे
१०. रोकडे, सुहास संगणक व माहिती तंत्रज्ञान, नाथे प्रकाशन, पुणे

पूरक वाचन :

१. नसिराबादकर, ल. रा. व्यावहारिक मराठी, फडके प्रकाशन, कोल्हापूर
२. रेगे, मे. पुं. (संपा.) नवभारत (मासिक), व्यावहारिक मराठी विशेषांक, प्राज्ञ पाठशाळा मंडळ, वाई, ऑगस्ट-सप्टेंबर, १९८१
३. गवस, राजन; शिंदे, अरुण व पाटील, गोमटेश्वर भाषिक सर्जन आणि उपयोजन, दर्या प्रकाशन, पुणे, २०१२
४. गोविलकर, लीला पाटणकर, जयश्री व्यावहारिक मराठी, स्नेहवर्धन पब्लिशिंग हाऊस, पुणे, २००७
५. शेख, यास्मिन मराठी लेखन मार्गदर्शिका, राज्य मराठी विकास संस्था व शुभदा सारस्वत प्रकाशन, पुणे, १९९९/सुधारित तिसरी आवृत्ती, राज्य मराठी विकास संस्था, मुंबई, डिसें. २०१७
६. शिकारपूरकर, दीपक दिव्यांगमित्र संगणक, उत्कर्ष प्रकाशन, पुणे
७. शेख, यास्मिन मराठी हस्तलेखन कोश, दुसरी आवृत्ती, हर्मिस प्रकाशन, पुणे, २०१५

संदर्भ ग्रंथ :

१. तौर, पृथ्वीराज मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन्स, धुळे, २०१८
२. जोशी, प्रभाकर व वले, वासुदेव उपयोजित मराठी भाग १, प्रशांत पब्लिकेशन्स, जळगाव, २०१७
३. सारंग, विलास सर्जनशोध आणि लिहिता लेखक, मौज प्रकाशन, मुंबई
४. पाटील, आनंद सृजनात्मक लेखन, पद्मगंधा प्रकाशन, पुणे
५. लोखंडे, शशिकांत नवी जाणीव, लोकवाङ्मय गृह, मुंबई, २०१२
६. गवळी, अनिल मराठी भाषा : आज आणि उद्या, दर्या प्रकाशन, पुणे, २०१८
७. गवळी, अनिल व मोरे, नंदकुमार भाषासंवाद, सायन पब्लिकेशन, पुणे, २०१३
८. कांबळे, विनोद सर्जननंदी, वाचनकट्टा प्रकाशन, प्रा. लि., कोल्हापूर, २०१९
९. वरखेडे, मंगला प्रकल्प अभ्यास, नाशिक

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-५ : Semester No. V : अभ्यासपत्रिका क्र. XI

Discipline Specific Elective (DSE-E5)

विद्याशाखीय विशेष निवड (DSE-E5)

वाङ्मय प्रवाहाचे अध्ययन : मध्ययुगीन

पाठ्यपुस्तक : दृष्टांतपाठ-निवडक दृष्टांत (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. मध्ययुगीन महाराष्ट्र व महानुभाव पंथ यांचा परिचय करून घेणे.
२. महानुभाव वाङ्मयाच्या प्रेरणा व स्वरूप समजून घेणे.
३. महानुभावीय ग्रंथकार केसोबास यांचा परिचय करून घेणे.
४. दृष्टांतपाठातील आशयस्वरूप व अभिव्यक्ती विशेष अभ्यासणे.
५. दृष्टांतपाठातील भाषिक वैभवाचा परिचय करून घेणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	● मध्ययुगीन महाराष्ट्र आणि महानुभावीय गद्याच्या प्रेरणा व स्वरूप ● महानुभाव गद्य ग्रंथकार केसोबास यांचा परिचय ● दृष्टांतपाठाचे स्वरूप	१५	१
विभाग २ Module II	■ दृष्टांतपाठातील आशयसूत्रे ● सामाजिकता ● सांस्कृतिकता ● प्रादेशिकता ● पंथीय निष्ठा ● तत्त्वज्ञान व मूल्यविचार	१५	१
विभाग ३ Module III	■ दृष्टांतपाठातील अभिव्यक्ती विशेष ● निवेदन/कथनशैली ● व्यक्तिचित्रणे ● घटना, प्रसंगवर्णने ● प्रतिमा व प्रतीके ● रचनाविशेष	१५	१
विभाग ४ Module IV	■ दृष्टांतपाठातील भाषावैभव ● शब्दसौष्टव ● अल्पाक्षरत्व ● सुलभ रचनाविशेष ● म्हणी, वाक्प्रचार, उखाणे ● अलंकार वैभव ● व्याकरणिक विशेष	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. विभाग एकवर वस्तुनिष्ठ प्रश्न असणार नाहीत.

२. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

सेमिनार विषय :

मध्ययुगीन मराठी वाङ्मयातील कोणत्याही एका साहित्यकृतीआधारे सामाजिक, सांस्कृतिक, मूल्यविचार, भाषाविशेष इत्यादीपैकी कोणत्याही एका विषयानुषंगाने सादरीकरण करणे.

मूलभूत वाचन :

१. तुळपुळे, शं. गो. (संपा.) दृष्टांतपाठ, केशिराज संकलित, व्हीनस प्रकाशन, पुणे
२. कोलते, वि. भि. महानुभाव तत्त्वज्ञान, अरुण प्रकाशन, मलकापूर
३. कोलते, वि. भि. महानुभाव आचारधर्म, अरुण प्रकाशन, मलकापूर
४. राजनकर, सुहास दृष्टांतपाठ : अन्वय आणि चिकित्सा, ऋचा प्रकाशन, नागपूर
५. कुंदप, कोमल कन्हैया चक्रधर निरुपन दृष्टांतपाठ विवेचन, सातारा

पूरक वाचन :

१. पठाण, यू. म. महानुभाव साहित्य संशोधन खंड १, मराठवाडा विद्यापीठ प्रकाशन, औरंगाबाद
२. पंजाबी, माधव (संपा.) श्री. च. पाणी व्यासकृत दृष्टांत अन्वय व्याख्यान
३. आवलगावकर, रमेश महानुभावांची अन्वयस्थळे, चंद्रकांत प्रकाशन, पुणे
४. ढेरे, रा. चिं. प्राचीन मराठीच्या नवधारा, मोघे प्रकाशन, कोल्हापूर

संदर्भ ग्रंथ :

१. पानसे, मु. ग. यादवकालीन महाराष्ट्र, मुंबई मराठी ग्रंथ संग्रहालय, मुंबई
२. बोरगांवकर, वसंत प्राचीन मराठी चरित्रलेखन, कॉन्टिनेन्टल प्रकाशन, पुणे
३. तुळपुळे, शं. गो. यादवकालीन मराठी भाषा, व्हीनस प्रकाशन, पुणे
४. देशमुख, उषा मराठी साहित्याचे आदिबंध, लोकवाङ्मयगृह, मुंबई
५. ढेरे, रा. चिं. महाराष्ट्राचा देव्हारा, विश्वकर्मा साहित्यालय, पुणे
६. पाठक, अरुणचंद्र स्थानपोथी : एक पुरातत्वीय अभ्यास, म.रा.साहित्य संस्कृती मंडळ, मुंबई

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XII

Discipline Specific Elective (DSE-E126)

विद्याशाखीय विशेष निवड (DSE-E126)

साहित्यविचार

उद्दिष्टे :

१. शब्दशक्तींचे आकलन करून घेणे.
२. साहित्यातील रसाचे स्वरूप व रसप्रक्रिया समजून घेणे.
३. निर्मितीच्या आनंदाची मीमांसा करणे.
४. व्यवहार भाषा, शास्त्रभाषा आणि साहित्यभाषा यांतील भेद समजून घेणे.
५. साहित्यभाषेचे आकलन करून घेणे.
६. भाषेतील छंद व वृत्ते यांचा अभ्यास करणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	<p>शब्दशक्ती</p> <p>■ शब्दशक्ती म्हणजे काय ?</p> <p>१) अभिधा-व्याख्या, स्वरूप व प्रकार (योग, रूढी, योगरूढी)</p> <p>२) लक्षणा - व्याख्या, स्वरूप</p> <p>● लक्षणेस आवश्यक गोष्टी</p> <p>अ) मुख्यार्थबाध ब) मुख्यार्थ-लक्ष्यार्थ संबंध क) रूढी व प्रयोजन</p> <p>● लक्षणेचे महत्त्व</p> <p>३) व्यंजना - व्याख्या, स्वरूप</p> <p>● व्यंजनेचे मुख्य दोन प्रकार</p> <p>अ) शाब्दी व्यंजना ब) आर्थी व्यंजना</p> <p>● व्यंजनेचे साहित्यातील महत्त्व</p>	१५	१

विभाग २ Module 2	<p>अ) रसविचार</p> <ul style="list-style-type: none"> ● रस म्हणजे काय ? ● स्थायिभाव व रस ● भरताचे रससूत्र <p>ब) काव्यानंदमीमांसा</p> <ul style="list-style-type: none"> ● काव्यानंदमीमांसा म्हणजे काय ? ● कवीचा आनंद १) क्रीडानंद २) निर्मितीचा आनंद ३) आत्माविष्कारानंद ● रसिकाचा आनंद १) ज्ञानानंद २) जिज्ञासापूर्ती ३) पुनःप्रत्ययाचा आनंद ● करुणरसानंद १) केवलानंदवाद २) विरेचन (कॅथार्सिस) 	१५	१
घटक ३ Module 3	<p>साहित्याची भाषा</p> <p>१) व्यवहारभाषा, शास्त्रभाषा व साहित्यभाषा : साम्यभेद</p> <p>२) साहित्याचे माध्यम भाषा</p> <p>३) साहित्य भाषेचे सौंदर्य</p> <p>४) साहित्य भाषेची विविधता</p>	१५	१
घटक ४ Module IV	<p>छंद व वृत्ते</p> <p>अ) छंद - १) ओवी २) अभंग ३) मुक्तछंद</p> <p>ब) वृत्ते - १) भुजंगप्रयात २) वसंततिलका ३) दिंडी (व्याख्या, स्वरूप व उदाहरणे अपेक्षित)</p>	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	छंद व वृत्ते (चार पैकी दोन)	१० गुण

सूचना :

१. विभाग चार वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यांस दहा गुण आहेत.

गटप्रकल्प विषय : साहित्यनिर्मितिप्रक्रिया संदर्भात कोणत्याही एका साहित्यिकाची मुलाखत घेणे.

मूलभूत वाचन :

१. जोग, रा. श्री. अभिनव काव्यप्रकाश, व्हीनस प्रकाशन, पुणे, आवृत्ती ७ वी, जानेवारी, १९७५
२. गाडगीळ, स. रा. काव्यशास्त्रप्रदीप, व्हीनस प्रकाशन, पुणे, आवृत्ती ४ थी, जानेवारी, १९९३
३. वाटवे, के. ना. रसविमर्श, नवीन किताबखाना, पुणे, १९४२
४. वाळंबे, मो. रा. सुगम मराठी व्याकरण लेखन, नितीन प्रकाशन, पुणे
५. नेमाडे, भालचंद्र साहित्याची भाषा, साकेत प्रकाशन, औरंगाबाद, आ. दु. १९९८

पूरक वाचन :

१. जोशी, पं. महादेवशास्त्री सुलभ काव्याशास्त्र, एस. जगन्नाथ आणि कं., पुणे
२. उपासे, शिवशंकर काव्यशास्त्र परिचय, फडके प्रकाशन, कोल्हापूर, २०१३
३. जाधव, उदय काव्यशास्त्र : आकलन आणि आस्वाद, लोकपाल पब्लिकेशन, औरंगाबाद, प्रथमावृत्ती, ५ सप्टेंबर २०१३
४. शिरवाडकर, के. रं. साहित्यवेध, मेहता पब्लिशिंग हाऊस, पुणे, प्रथमावृत्ती, जानेवारी, १९९८

संदर्भ ग्रंथ :

१. कुरुंदकर, नरहर रससूत्र, इंद्रायणी साहित्य, पुणे.
२. सोनार, ब. लु. भारतीय साहित्य विचार, प्रज्ञा, अमळनेर, १९८८
३. मोरे, मोरेश्वर सखाराम मराठी व्याकरण, चित्रशाळा, पुणे, १९७०
४. वासमकर, वि. दा. मराठीतील कलावादी समीक्षा, अक्षरदीप प्रकाशन, कोल्हापूर, आ. प. २०१८
५. तुकदेव, रोहिणी ओवी छंद : रूप आणि आविष्कार, प्रतिमा प्रकाशन, पुणे
६. हिरेमठ, राजशेखर मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे, १९८८
७. जाधव, मा. मा. अक्षरगाथा (मराठी साहित्यविचार विशेषांक), मासिक, नांदडे, एप्रिल, २०१४

शिवाजी विद्यापीठ, कोल्हापूर
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मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XIII

Discipline Specific Elective (DSE-E127)

विद्याशाखीय विशेष निवड (DSE-E127)

मराठी भाषा व भाषाविज्ञान

उद्दिष्टे :

१. मराठी भाषेची वर्णव्यवस्था समजून घेणे.
२. ध्वनी व अर्थपरिवर्तनाची कारणे व प्रकार यांची माहिती करून घेणे.
३. प्रमाणभाषेचे स्वरूप व विशेष अभ्यासणे.
४. बोलींचे स्वरूप व विशेष समजून घेणे.
५. मराठी भाषेबद्दलची विद्यार्थ्यांची आवड विकसित करणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	मराठीची वर्णमाला ● ध्वनी व वर्ण, मराठीची वर्णमाला, पारंपरिक स्वर व त्यांचे वर्गीकरण ● स्वरांचे ध्वनिशास्त्रदृष्ट्या व उच्चारण स्थानानुसार विश्लेषण ● स्वरांचे प्रकार ह्रस्व, दीर्घ, सिद्ध, साधित, सजातीय, विजातीय ● मराठीची स्वर संख्या (पारंपरिक व नवीन) ● मराठीतील व्यंजन विचार ● व्यंजनांचे प्रकार १. स्पर्श व्यंजने २. कठोर व मृदू व्यंजने ३. अल्पप्राण व महाप्राण ४. अनुनासिके ५. तालव्य व्यंजने ६. अंतःस्थ व्यंजने ७. उष्म व्यंजने ८. संयुक्त व्यंजने ९. मृध्न्य ● मराठीची व्यंजन संख्या (पारंपरिक व नवीन) ● मराठीची वर्ण संख्या निश्चितीकरण	१५	१

<p>विभाग २ Module II</p>	<p>मराठीचे ध्वनिपरिवर्तन</p> <ul style="list-style-type: none"> ● भाषेची उच्चारप्रक्रिया ● ध्वनिपरिवर्तन म्हणजे काय ? ● व्याख्या आणि विशेष निरपवाद, नियमित, अज्ञेय, सार्वत्रिक ध्वनिपरिवर्तन ● कारणे जित - जेते संबंध, भिन्न भाषिक संबंध, आळस, अनुकरणाची अपूर्णता, वागेंद्रियातील दोष, श्रवणेंद्रियातील दोष, उच्चारशीघ्रता, अज्ञान, आघात, उच्चारसौकर्य, आहार, भौगोलिकता, वर्गसिद्धान्त, लोकभ्रम, सादृश्यता ● प्रकार अंत्यस्वनलोप, एकस्वनीकरण, आद्यस्वनागम, मध्यस्वनागम, अंत्यस्वनागम, सान्निध परिणाम, समानस्वनलोप, विसदृशीकरण, घोषीकरण, अघोषीकरण, मात्राभेद, सदृशता, अतिशुद्धी, दुष्प्रयोग, स्वनविपर्यय ● ध्वनिपरिवर्तनाचा मराठी भाषेवरील परिणाम 	<p>१५</p>	<p>१</p>
<p>विभाग ३ Module III</p>	<p>मराठीचे अर्थपरिवर्तन</p> <ul style="list-style-type: none"> ● अर्थपरिवर्तन म्हणजे काय ? ● व्याख्या आणि स्वरूप अर्थ म्हणजे निर्देश, प्रतिमा, संकल्पना व विचार ● अर्थपरिवर्तनाची कारणे साम्यतत्त्व, रूपक - लक्षणाजन्य शब्द, बदलते समाजजीवन, अशुभतापरिहार, ग्राम्यतापरिहार, अतिशयोक्ती, शब्दसिद्धी, अतिपरिचयातून सभ्यता, अत्यादरदर्शन, सांस्कृतिक आदान ● अर्थपरिवर्तनाचे प्रकार - अर्थविस्तार, अर्थसंकोच, अर्थप्रशस्ती, अर्थच्युती, अर्थापकर्ष, अर्थान्तर, अर्थभ्रंश, अर्थादेश, अर्थभेद, अर्थसार ● अर्थपरिवर्तनाचा मराठी भाषेवरील परिणाम 	<p>१५</p>	<p>१</p>
<p>विभाग ४ Module IV</p>	<p>प्रमाण मराठी भाषा आणि तिच्या बोली</p> <ul style="list-style-type: none"> ● प्रमाण मराठी : संकल्पना, स्वरूप, विशेष ● बोली : संकल्पना, स्वरूप, विशेष ● मराठीच्या बोली : अहिराणी, वऱ्हाडी, चंदगडी, मालवणी या निवडक बोलींचे स्वरूप व विशेष 	<p>१५</p>	<p>१</p>

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. विभाग एकवर वस्तुनिष्ठ प्रश्न असणार नाही.

२. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

गटप्रकल्प विषय :

१. आपल्या परिसरातील कौटुंबिक, सांस्कृतिक, कृषिविषयक, औद्योगिक क्षेत्रात जी बोलीभाषा बोलली जाते त्या बोलीभाषेतील शब्द, वाक्य, वाक्प्रचार, म्हणी, उखाणे यांचे संकलन आणि विश्लेषणासह गटप्रकल्प अपेक्षित.
२. आपल्या परिसरातील लोककथा, लोकगीते यांचे संकलन करून त्यातील भाषिक विशेषांच्या विश्लेषणावर आधारित गटप्रकल्प अपेक्षित.

मूलभूत वाचन :

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| १. कुलकर्णी, कृ. पां. | मराठी भाषा : उद्गम आणि विकास, मेहता पब्लिशिंग हाऊस, पुणे |
| २. कानडे, मु. श्री. (संपा.) | मराठीचा भाषिक अभ्यास, स्नेहवर्धन प्रकाशन, पुणे |
| ३. गजेंद्रगडकर श्री. न. | भाषा आणि भाषाशास्त्र, व्हीनस प्रकाशन, पुणे |
| ४. कुलकर्णी कृ. पां. | शब्द : उद्गम आणि विकास |
| ५. जोगळेकर गं. ना. | अभिनव भाषाविज्ञान, सुविचार प्रकाशन, पुणे |
| ६. जोशी, प्र. न. | सुबोध भाषाशास्त्र, स्नेहवर्धन प्रकाशन, पुणे |
| ७. दामले, मो. के. | शास्त्रीय मराठी व्याकरण, दामोदर सावळाराम आणि मंडळी, पुणे |
| ८. कालेलकर, ना. गो. | ध्वनिविचार, मौज प्रकाशन, मुंबई |
| ९. पोतदार, अनुराधा | मराठीचा अर्थविचार, पुणे विद्यापीठ प्रकाशन, पुणे |
| १०. कालेलकर, ना. गो. | भाषा आणि संस्कृती, मौज प्रकाशनगृह, मुंबई |
| ११. देवी, गणेश व जाखडे, अरुण (संपा.) | भारतीय भाषेचे लोकसर्वेक्षण, पद्मगंधा प्रकाशन, पुणे |

पूरक वाचन :

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| १. हिरेमठ, राजशेखर | मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे |
| २. गवळी, अनिल | भाषाविज्ञान आणि मराठी भाषा, हिरण्यकेशी प्रकाशन, कोल्हापूर |
| ३. कुलकर्णी, सुलक्षणा व कुबेर, वसंत | भाषाविज्ञान परिचय, फडके प्रकाशन, कोल्हापूर |

संदर्भ ग्रंथ :

- | | |
|-------------------------------|---|
| १. पुंडे, द. दि. | सुलभ भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे |
| २. कदम, महेंद्र | मराठीचे वर्णनात्मक भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे |
| ३. कालेलकर, ना. गो. | भाषा, इतिहास आणि भूगोल, मौज मुंबई |
| ४. शेख, यास्मिन | मराठी लेखन मार्गदर्शिका, राज्य मराठी विकास संस्था, मुंबई |
| ५. हिरेमठ, राजशेखर | मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे |
| ६. लामतुरे, प्रज्ञा | ग्रामीण बोलीभाषेचे वैभव, संस्कृती प्रकाशन, पुणे |
| ७. जंबाले, विठ्ठल | ग्रामीण कादंबरी : मराठवाडी बोलीचे स्वरूप, चिन्मय प्रकाशन, औरंगाबाद |
| ८. पाटील, व्ही. एन. | सुलभ भाषाविज्ञान, प्रशांत पब्लिकेशन्स, जळगाव, २०१६ |
| ९. भांड, बाबा व मगर, राजेंद्र | भाषा आणि साहित्य : माझी भूमिका : सयाजीराव गायकवाड, महाराजा सयाजीराव गायकवाड संशोधन व प्रशिक्षण संस्था, औरंगाबाद |
| १०. केळकर, तन्मय (अनु.) | पंजाबच्या भाषा आणि लिपीची समस्या : शहीद भगतसिंग, प्रका. भाषाविकास संशोधन संस्था, कोल्हापूर |

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

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Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XIV

Discipline Specific Elective (DSE-E128)

विद्याशाखीय विशेष निवड (DSE-E128)

मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते इ.स.१८००)

उद्दिष्टे :

१. मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास करणे.
२. मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय करून घेणे.
३. पंडित कवी व त्यांची रचना यांचा परिचय करून घेणे.
४. बखर वाङ्मय आणि शाहिरी वाङ्मय यांचे स्वरूप, विशेष अभ्यासणे.
५. मध्ययुगीन मराठी गद्य, पद्य रचनेचे विशेष अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	इ. स. १५०० ते इ.स. १६०० एकनाथांची साहित्य संपदा चतुःश्लोकी भागवत, एकनाथी भागवत, भावार्थ रामायण, गवळणी, भारुडे इत्यादी रचना	१५	१
विभाग २ Module II	इ. स. १६०० ते इ. स. १७०० (स्थूल कालखंड) अ) तुकारामांची अभंगरचना ब) रामदासांची ग्रंथरचना करुणाष्टके, रामायणे, मनाचे श्लोक, दासबोध, स्फुट प्रकरणे	१५	१
विभाग ३ Module III	इ. स. १६०० ते इ. स. १८०० (स्थूल कालखंड) निवडक पंडित कवींच्या काव्याचा अभ्यास १) मुक्तेश्वर २) वामन पंडित ३) रघुनाथ पंडित ४) श्रीधर ५) मोरोपंत	१५	१
विभाग ४ Module IV	इ. स. १५०० ते इ.स. १८०० (स्थूल कालखंड) अ) बखर वाङ्मय शिवपूर्वकालीन बखरी, शिवकालीन बखरी, पेशवेकालीन बखरी-स्वरूप, विशेष ब) शाहिरी वाङ्मय (लावणी व पोवाडा) १) अनंत फंदी २) परशुराम ३) राम जोशी ४) प्रभाकर ५) होनाजी बाळा	१५	१

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यांस दहा गुण आहेत.

गटप्रकल्प विषय :

* आपल्या परिसरातील कोणत्याही ग्रंथालयातील किंवा ग्रंथालयाबाहेरील मध्ययुगीन मराठी ग्रंथकार आणि ग्रंथ यांची सूची तयार करावी.

* मध्ययुगीन मराठी वाङ्मयातील निवडक शब्दांचा शब्दसंग्रह करणे आणि त्यांचे वर्गीकरण व विश्लेषण करणे.

मूलभूत वाचन :

१. नसिराबादकर, ल. रा.
२. देशपांडे, अ. ना.
३. पांगारकर, ल. रा.
४. मंचरकर, र. बा.
५. गवळी, अनिल
६. सपकाळे, प्रकाश
७. वाटवे, के. ना. (संपा.)
८. फाटक, न. र.
९. सरदेशमुख, चं. वि.
१०. हेरवाडकर, र. वि.
११. अदवंत, म. ना.
१२. सहस्त्रबुद्धे, म. ना.
१३. खरात, महेश (संपा.)

प्राचीन मराठी वाङ्मयाचा इतिहास, फडके प्रकाशन, कोल्हापूर
 प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ४, व्हीनस प्रकाशन, पुणे
 प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ३, महाराष्ट्र साहित्य परिषद, पुणे
 धर्म संप्रदाय आणि मध्ययुगीन मराठी वाङ्मय, प्रतिमा प्रकाशन, पुणे
 सर्वात्मभावी तुकाराम, सायन पब्लिकेशन प्रा. लि. पुणे
 संत तुकाराम, प्रशांत पब्लिकेशन्स, जळगाव
 प्राचीन मराठी पंडिती काव्य.
 श्री एकनाथ वाङ्मय दर्शन आणि कार्य, मौज प्रकाशन गृह, मुंबई
 रामदास : प्रतिमा आणि बोध, अस्मिता प्रकाशन, पुणे
 मराठी बखर, व्हीनस प्रकाशन, पुणे
 पैजण, साहित्य प्रसार केंद्र, नागपूर
 मराठी शाहिरी वाङ्मय, ठोकळ प्रकाशन, पुणे
 लोकसाहित्य : जीवन आणि संस्कृती, (प्रा.विश्वनाथ शिंदे गौरवग्रंथ), सायन
 पब्लिकेशन, पुणे

पूरक वाचन :

१. तुळपुळे, शं. गो. (संपा.)
२. तुळपुळे, शं. गो. (संपा.)
३. उपासे, शिवशंकर
४. पाटील, तानाजी
५. हेरवाडकर, र. वि.

मध्ययुगीन मराठी वाङ्मयाचा इतिहास, म. सा. प., पुणे
 मराठी वाङ्मयाचा इतिहास, महाराष्ट्र साहित्य परिषद, पुणे
 मराठी काव्यातील शिवदैवत दर्शन, आख्यानकाव्य व स्फुटकाव्य : १३ ते
 १८ वे शतक, शैवभारती शोध प्रतिष्ठान, जंगमवाडी मठ, वाराणसी
 संत साहित्यातील सामाजिकता, विश्वकर्मा प्रकाशन, पुणे
 मराठी बखर

संदर्भ ग्रंथ :

१. बडवे, सतीश
२. फाटक, न. र.
३. माटे, श्री. म.
४. होनमाने, धनंजय
५. होनमाने, धनंजय
६. ग्रामोपाध्ये, गं. ब.
७. शिंदे, विश्वनाथ
७. केळकर, य. न.
९. मोरजे, गंगाधर
१०. वर्दे, श्री. म.

मध्ययुगीन साहित्याविषयी, मीरा, औरंगाबाद
 श्री. रामदास, वाङ्मय आणि कार्य
 संत, पंत आणि तंत, ठोकळ प्रकाशन, पुणे
 तंजावरची मराठी कीर्तनपरंपरा, स्नेहवर्धन, पुणे
 पंत प्रतिनिधींची कीर्तनाख्याने, दर्या प्रकाशन, पुणे
 मराठी बखर गद्य, व्हीनस बुक स्टॉल, पुणे
 शाहिरी वाङ्मयाच्या धारा, प्रतिमा प्रकाशन, पुणे
 मराठी शाहीर आणि शाहिरी वाङ्मय, पुणे विद्यापीठ, पुणे
 मन्हाटी लावणी वाङ्मय, मोघे प्रकाशन, कोल्हापूर
 मराठी कवितेचा उषःकाल किंवा मराठी शाहीर, मुंबई मराठी साहित्य संघ, मुंबई

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

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Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XV

Discipline Specific Elective (DSE-E129)

विद्याशाखीय विशेष निवड (DSE-E129)

मराठी भाषा व अर्थार्जनाच्या संधी

पाठ्यपुस्तक : मराठी भाषा व अर्थार्जनाच्या संधी (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. प्रसारमाध्यमांतील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे.
२. स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून घेणे.
३. उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन करणे.
४. मुद्रित शोधनाची पद्धत अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	प्रसारमाध्यमांतील अर्थार्जनाच्या संधी व भाषिक कौशल्ये ■ मुद्रित माध्यमे (Print Media) १. संपादन २. स्तंभलेखन ३. जाहिरात लेखन ४. शब्दांकन (नावीण्यपूर्ण उपक्रम, व्यक्तींचे अनुभव व मानपत्र) ■ आकाशवाणी १. निवेदन २. संहिता लेखन (कृषी, महिला व शैक्षणिक विषयक) ३. बातमी लेखन ■ चित्रवाणी १. निवेदन २. संहिता लेखन (साहित्य, युवा व मनोरंजन विषयक) ३. बातमी लेखन	१५	१

विभाग २ Module II	उद्योग व सेवाक्षेत्रातील अर्थार्जनाच्या संधी व भाषिक कौशल्ये ■ उद्योग व सेवाक्षेत्र आणि मराठी भाषा ■ उद्योग व सेवाक्षेत्रातील अर्थार्जन संधी – १. विपणन (Marketing) साठी संवाद कौशल्ये २. ग्राहक सेवा केंद्र (Call Centers) ३. अनुवाद ४. मराठी टंकलेखन, युनिकोड व पीपीटी (Power Point Presentation) परिचय	१५	१
विभाग ३ Module III	मुद्रितशोधन १. मुद्रितशोधन : संकल्पना, स्वरूप, प्रकार व महत्त्व २. महाराष्ट्र शासनाचे प्रमाणलेखनविषयक १८ नियम, अपवाद, उदाहरणे, विरामचिन्हे ३. मुद्रित शोधनाची पद्धत : सांकेतिक खुणा, त्याचे स्पष्टीकरण, पहिले वाचन व पुढील मुद्रितशोधन, संगणकीय मुद्रितशोधन ४. मुद्रितशोधनाचे प्रात्यक्षिक कार्य :वर्तमानपत्र, नियतकालिक, ग्रंथ, छापील मजकूर, लेख इ.	१५	१
विभाग ४ Module IV	स्पर्धा परीक्षांसाठी मराठी १. स्पर्धा परीक्षांचे स्वरूप : सरळसेवा, कम्बाईन, राज्यसेवा, संघ लोकसेवा आयोग २. स्पर्धा परीक्षांमधील मराठीचे स्वरूप : अभ्यासक्रम परिचय ३. स्पर्धा परीक्षेसाठी कौशल्ये : वाचन, नोट्स (टिपणे), लेखन, हस्ताक्षर, वेळेचे व्यवस्थापन, गटचर्चा,संदर्भ साहित्य ४. मुलाखतीची पूर्वतयारी व तंत्रे (मुलाखत कशी द्यावी)	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण – ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

गटप्रकल्प विषय :

१. राष्ट्रीय, शैक्षणिक, सांस्कृतिक, सामाजिक, कृषी, आरोग्य, भाषा व साहित्य क्षेत्रातील ताज्या घडामोडी यापैकी एका विषयावर आकाशवाणी किंवा चित्रवाणीसाठी संहितालेखन.
२. उद्योग व सेवाक्षेत्रे आणि प्रसारमाध्यमे यांना भेटी देऊन तेथील भाषिक उपयोजनावर आधारित प्रकल्प तयार करणे.

मूलभूत वाचन :

१. काणे, पुष्पा नभोवाणी कार्यक्रम : तंत्र आणि मंत्र, इंडिया बुक कंपनी, पुणे
२. भागवत, यशोदा बोलका कॅमेरा, मौज प्रकाशन, पुणे
३. राजाध्यक्ष, विजया (संपा.) मराठी वाङ्मय कोश, साहित्य आणि संस्कृती मंडळ, मुंबई
४. मोरे, सदानंद व लिंबाळे, शरणकुमार प्रबोधनपर वैचारिक वाङ्मय, य. च. म. मु. विद्यापीठ, नाशिक
५. रेगे, मे. पुं. व इतर मराठी विचारवंत आणि आपण, मौज प्रकाशन गृह, मुंबई
६. शेख, यास्मिन मराठी लेखन मार्गदर्शिका, राज्य मराठी विकास संस्था, मुंबई
७. फडके, अरुण मराठी लेखन-कोश, अंकुर प्रकाशन, ठाणे
८. धायगुडे, य. ए. मुद्रितशोधन, दि पूना प्रेस ओनर्स असो. लि. पुणे
९. खोपकर, अरुण चित्रव्यूह, लोकवाङ्मय गृह, प्रकाशन, मुंबई
१०. वरखेडे, रमेश सायबर संस्कृती, इन्स्टिट्यूट ऑफ नॉलेज इंजिनिअरिंग, नाशिक
११. कांबळे, अमर स्पर्धा परीक्षेला सामोरे जाताना, निर्मिती संवाद प्रकाशन, कोल्हापूर
१२. कांबळे, अमर मुलाखत कौशल्य, निर्मिती संवाद प्रकाशन, कोल्हापूर

पूरक वाचन :

१. कुंभार, प्रकाश उपयोजित भाषाविज्ञान आणि प्रसारमाध्यमे, अक्षरदालन, कोल्हापूर
२. जोशी, प्रभाकर उपयोजित मराठी, प्रशांत पब्लिकेशन्स, जळगाव
३. तौर, पृथ्वीराज मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन्स, धुळे
४. फडके, अरुण शुद्धलेखन मार्गप्रदीप, अंकुर प्रकाशन, ठाणे
५. दीक्षित, विजय चित्रपट : एक कला, रेणुका प्रकाशन, नाशिक
६. इनामदार, एस. डी. माध्यम, एस. डी. प्रकाशन, पुणे

संदर्भ ग्रंथ :

१. देशपांडे, वि. भा. व जोगळेकर, सुषमा (संपा.) मराठी कलाभिरुची, कॉन्टिनेन्टल प्रकाशन, पुणे
२. पचिंद्रे, श्रीराम मुलाखत आणि शब्दांकन, अनुबंध प्रकाशन, पुणे
३. ढोले, विश्राम प्रसारमाध्यमे आणि प्रयोगकला, लोकवाङ्मय गृह, मुंबई
४. शिंदे, अरुण सत्यशोधकीय नियतकालिके, कृष्णा संशोधन व विकास अकादमी, मंगळवेढा
५. जोशी, प्रभाकर व वले, वासुदेव उपयोजित मराठी, प्रशांत पब्लिकेशन्स, जळगाव
६. रेगे, मे. पुं. (संपा.) नवभारत (मासिक), व्यावहारिक मराठी विशेषांक, प्राज्ञ पाठशाळा मंडळ, वाई (ऑगस्ट-सप्टेंबर १९८१)
७. भालके, रामचंद्र व इतर प्रबोधनपर साहित्य : स्वरूप आणि संकल्पना, य.च.म.मु. विद्यापीठ, नाशिक
८. चपळगावकर, नरेंद्र मराठीतील वैचारिक साहित्य : लेखक आणि समाज, नवभारत, जून २०१६ वर्ष २९, अंक ९
९. चौसाळकर, अशोक विचारवंत आणि समाज, युनिक अॅकॅडमी, पुणे
१०. गावडे, गोपाळ मामा वरेरकर : प्रयोगाची नांदी, मनोकामना प्रकाशन, इस्लामपूर, २०१७
११. कांबळे, विनोद सर्जननोंदी, वाचनकट्टा प्रकाशन, प्रा. लि., कोल्हापूर, २०१९

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XVI

Discipline Specific Elective (DSE-E-130)

विद्याशाखीय विशेष निवड (DSE-E-130)

वाङ्मय प्रकाराचे अध्ययन : ललित गद्य (व्यक्तिचित्रे)

पाठ्यपुस्तक : मुलखावेगळी माणसं (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. ललित गद्य वाङ्मयप्रकाराचे स्वरूप अभ्यासणे.
२. व्यक्तिचित्र संकल्पना व स्वरूप समजून घेणे.
३. प्रवाहानुरूप मराठीतील व्यक्तिचित्रांचे स्वरूप अभ्यासणे.
४. 'मुलखावेगळी माणसं'मधील व्यक्तिविशेषांचे आकलन करून घेणे.
५. 'मुलखावेगळी माणसं'मधील शैक्षणिक, सामाजिक, सांस्कृतिक, राजकीय पर्यावरण आणि कौटुंबिक भावविश्व अभ्यासणे.
६. 'मुलखावेगळी माणसं'मधील ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन करून घेणे.
७. 'मुलखावेगळी माणसं'मधील अभिव्यक्ती, निवेदनशैली व भाषाविशेष अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	ललित गद्य : संकल्पना व स्वरूप व्यक्तिचित्रे : संकल्पना, स्वरूप/वैशिष्ट्ये आणि वाटचाल व्यक्तिचित्र लेखनासाठी आवश्यक गुण	१५	१
विभाग २ Module II	१. रामा मैलकुली - व्यंकटेश माडगूळकर २. मृत्यूचे चुंबन घेणारा महाकवी - प्र. के. अत्रे ३. निळू मांग - अण्णाभाऊ साठे ४. मोरणी - विभावरी शिरूरकर	१५	१
विभाग ३ Module III	५. जमीला जावद - हमीद दलवाई ६. यंकटाण्णा - व. वा. बोधे ७. दगडूमामा - उत्तम कांबळे ८. मुंबईचा चित्रकार - अरुण खोपकर	१५	१
विभाग ४ Module IV	९. हीरा - इंद्रजित भालेराव १०. बाबा मास्तर - दि. बा. पाटील ११. दादासाहेब वस्ताद - सयाजीराजे मोकाशी १२. डोकेवाला संशोधक : दादाजी रामजी खोब्रागडे - व्ही.एन.शिंदे	१५	१

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना :

१. विभाग एक वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

गटप्रकल्प विषय :

आपल्या परिसरातील शैक्षणिक, सामाजिक, सांस्कृतिक, कला, क्रीडा, आरोग्य, राजकीय इत्यादी समाजजीवनाच्या कोणत्याही क्षेत्रातील व्यक्तींची व्यक्तिचित्रे लिखित स्वरूपात प्रती प्रकल्पनुरूप ५ (किमान एका प्रकल्पकास एक नुसार) तयार करून ती एकत्रित जमा करावीत.

मूलभूत वाचन :

१. वास्कर, आनंद (संपा.) वाङ्मयप्रकार संकल्पना (डॉ. विजय निंबाळकर गौरवग्रंथ), अन्वय प्रकाशन, पुणे
२. चौधुले, वि. शं. मुक्तगद्य : संकल्पना आणि उपयोजन, मॅजेस्टिक प्रकाशन, मुंबई, २००८
३. शिंदे, रणधीर ललित गद्य ते मुक्तगद्य (लेख), दै. महाराष्ट्र टाईम्स, २९-१२-२०१३
४. मालशे, मिलिंद साहित्य प्रकाराची संकल्पना (लेख), साहित्य : अध्यापन आणि प्रकार, (संपा.) श्री. पु. भागवत, सुधीर रसाळ, मौज प्रकाशन, मुंबई, १९८७
५. हातकणंगलेकर, जहागीरदार, पवार, गो. मा. मराठी साहित्य : प्रेरणा आणि स्वरूप, पॉप्युलर प्रकाशन, मुंबई, १९८६
६. पुरोहित, के. ज. लघुनिबंध, साहित्य अकादमी, नवी दिल्ली

पूरक वाचन :

१. माडगूळकर, व्यंकटेश माणदेशी माणसं, मेहता पब्लिशिंग हाऊस, पुणे, पुनर्मुद्रण, २०१८
२. अत्रे, प्र. के. मृत्यूचे चुंबन घेणारा महाकवी : साने गुरूजी, पार्श्व पब्लिकेशन, कोल्हापूर, १९६२
३. साठे, अण्णाभाऊ बरबाद्या कंजारी, श्रमिक प्रतिष्ठान, कोल्हापूर, लोकावृत्ती, २०१०
४. शिरूरकर, विभावरी दोघांचे विश्व आणि इतर काही कथा, कॉन्टिनेन्टल प्रकाशन, पुणे, १९५७
५. दलवाई, हमीद जमीला जावद आणि इतर कथा, साधना प्रकाशन, पुणे, २०१६
६. बोधे, व. वा. गावाकडची माणसं, अक्षरबंध प्रकाशन, पुणे, २००७
७. कांबळे, उत्तम कावळे आणि माणसं, मनोविकास प्रकाशन, पुणे, आ.दु., २०१०
८. खोपकर, अरुण चित्रव्यूह, लोकवाङ्मय गृह, मुंबई
९. भालेराव, इंद्रजित गाई घरा आल्या, प्रतिभास प्रकाशन, परभणी
१०. पाटील, दि. बा. भली माणसं, मनोकामना प्रकाशन, इस्लामपूर, २०१३
११. मोकाशी, सयाजीराजे पंधरा ऑगस्ट, मुक्तरंग प्रकाशन, लातूर, २०१६
१२. शिंदे, व्ही. एन. हिरव्या बोट्यांचे किमयागार, तेजस प्रकाशन, कोल्हापूर, २०१९

संदर्भ ग्रंथ :

१. जोशी, प्र. न. मराठी वाङ्मयाचा विवेचक इतिहास, अर्वाचीन काळ (१८०० ते १९८०), स्नेहवर्धन प्रकाशन, पुणे
२. भागवत, श्री. पु. साहित्य अध्यापन आणि प्रकार (प्रा. वा. ल. कुलकर्णी गौरवग्रंथ), मौज प्रकाशन गृह, मुंबई

SHIVAJI UNIVERSITY, KOLHAPUR



Accredited by NAAC 'A++' Grade

**CHOICE BASED CREDIT SYSTEM WITH
MULTIPLE ENTRY AND MULTIPLE EXIT OPTIONS IN THE
UNDERGRADUATE DEGREE PROGRAMMES OF
PSYCHOLOGY**

(Regulations in accordance with National Education Policy

2020 to be implemented from Academic Year

2022-23 onwards)

Shivaji University, Kolhapur
B.A. Part-I (Semester - I)
Paper –I Understanding Psychology
(Revised Syllabus to be implemented from June, 2022 onwards)

- i. Paper** : I
ii. Title of paper : Understanding Psychology
iii) Specific Objectives :
1. To acquaint students with basic concepts of Psychology.
 2. To make students aware with neuroscience and behavior.
 3. To make students aware with motivation, various approaches of motivation and human needs.
 4. To understand emotions, range and the roots of emotions.

iv. Module	No. of credits
Module- 1 Introduction to Psychology	01
Module-2 Neuroscience and Behavior	01
Module-3 Motivation	01
Module-4 Emotions	01

v. Equivalence

Old Paper	New Paper
Introduction to Psychology	Understanding Psychology

vi. Recommended Reading

a) Basic Reading

Feldman, R.S. (2019). Understanding Psychology, 12th Edition, Fourth reprint 2019, Chennai: McGraw Hill Education (India) Private Limited, ISBN-13:978-93-794-5, ISBN-10:93-5260-794-5

b) Books for reference

1. Ciccarelli, S. K & Meyer, G.E (2008). Psychology, (South Asian Edition). New Delhi: Pearson Longman
2. Feldman, R.S.(2016). Understanding Psychology, 10th Edition, Indian Edition, Ninth reprint, 2016, Chennai: McGraw Hill Education (India) Private Limited, ISBN-13:978-1-25-9003005-9, ISBN-10:1-25-900305-1

vii) Nature of Question Paper (Semester End Examination)

Total Marks =40

Q.1 Complete the following sentences by choosing correct alternative. (5 Marks)

Q.2 Write short notes (any three out of five): (15 Marks)

Q.3 Answer the following questions.

a) Broad question. (10 Marks)

OR

b) Broad question. (10 Marks)

Q.4 Answer the following questions.

a) Broad question. (10 Marks)

OR

b) Broad question. (10 Marks)

VIII) CIE for 10 marks

Shivaji University, Kolhapur
B.A. Part-I (Semester - I)
Paper I Understanding Psychology
(Revised Syllabus to be implemented from June, 2022 onwards)

Module1: Introduction to Psychology

- 1.1 Definition of Psychology
- 1.2 Today's Perspectives
 - a) Psychodynamic Perspective
 - b) Behavioral Perspective
 - c) Cognitive Perspective
 - d) Humanistic Perspective
- 1.3 Conducting Psychological Research
 - a) Naturalistic Observation
 - b) Survey Research
 - c) Experimental Research-Experimental group and Controlled group, Independent and Dependent Variables, Random assignments of Participants
- 1.4 Psychology's Future

Module 2: -Neuroscience and Behavior

- 2.1 Neurons
 - a) The Structure of the Neuron
 - b) How Neurons fire?
 - c) Neurotransmitters
- 2.2 The Nervous System
 - a) Central and Peripheral Nervous Systems
 - b) Activating the Divisions of the Atomic Nervous System
- 2.3 The Endocrine System
- 2.4 The Brain
 - a) Studying the Brains Structure and Functions
 - b) The Limbic System
 - c) The Cerebral Cortex

Module 3: Motivation

- 3.1 Explaining Motivation
 - a) Drive Reduction Approaches
 - b) Arousal Approaches
 - c) Incentive Approaches
 - d) Cognitive Approaches
- 3.2 Maslow's Hierarchy
- 3.3 Human Needs and Motivation
 - a) The motivation behind hunger and eating
 - b) The need for Achievement
 - c) The need for Affiliation
 - d) The need for Power

Module4: Emotions

- 4.1 Understanding Emotional Experiences
 - a) The Functions of Emotion
- 4.2 Determining the Range of Emotion
- 4.3 The Roots of Emotions
 - a) The James-Lange Theory
 - b) The Cannon-Bard Theory
 - c) The Schachter-Singer Theory
 - d) Making sense of multiple perspectives on Emotion

Shivaji University, Kolhapur
B.A. Part-I (Semester - II)
Paper -II Basic Principles of Psychology
(Revised Syllabus to be implemented from June, 2022 onwards)

- i. Paper** : **II**
ii. Title of paper : Basic Principles of Psychology
iii) Specific Objectives :
1. To make the students aware with learning, classical conditioning and operant conditioning.
 2. To makes the students familiar with foundations of memory.
 3. To understand personality, various approaches, and assessment techniques of personality.
 4. To make students aware with intelligence, theories of intelligence, Emotional intelligence, mental retardation and intellectually gifted.

iv. Module	No. of credits
Module- 1 Learning	01
Module-2 Memory	01
Module-3 Personality	01
Module-4 Intelligence	01

v. Equivalence

Old Paper	New Paper
General Psychology	Basic Principles of Psychology

vi. Recommended Reading

c) Basic Reading

1. Feldman, R.S. (2019). Understanding Psychology, 12th Edition, Fourth reprint 2019, Chennai: McGraw Hill Education (India) Private Limited, ISBN-13:978-93-794-5, ISBN-10:93-5260-794-5
2. Kothurkar, and Vanarase (1986). Experimental Psychology: A Systematic Introduction, New Delhi: Wiley Eastern Ltd. (for module 1.1. &1.2)

d) Books for reference

1. Ciccarelli, S. K & Meyer, G.E (2008). Psychology, (South Asian Edition). New Delhi: Pearson Longman
2. Feldman, R.S. (2016). Understanding Psychology, 10th Edition, Indian Edition, Ninth reprint, 2016, Chennai: McGraw Hill Education (India) Private Limited, ISBN-13:978-1-25-9003005-9, ISBN-10:1-25-900305-1

vii) Nature of Question Paper (Semester End Examination)

Total Marks = 40

Q.1 Complete the following sentences by choosing correct alternative. (5 Marks)

Q.2 Write short notes (any three out of five): (15 Marks)

Q.3 Answer the following questions.

a) Broad question. (10 Marks)

OR

b) Broad question. (10 Marks)

Q.4 Answer the following questions.

a) Broad question. (10 Marks)

OR

e) Broad question. (10 Marks)

VIII) CIE for 10 marks

Shivaji University, Kolhapur
B.A.: Part-I (Semester - II)
Paper -II Basic Principles of Psychology
(Revised Syllabus to be implemented from June, 2022 onwards)

Module 1 Learning

1.1 Definition of learning

1.2 Types of Learning

1.3 Classical Conditioning

a) The Basics of Classical Conditioning

b) Applying Conditioning Principles to Human Behavior

c) Extinction

d) Generalization and Discrimination

1.4 Operant Conditioning

a) Thorndike's Law of Effect

b) The Basics of Operant Conditioning

c) Reinforcement

d) Positive Reinforcers, Negative Reinforcers and Punishment

e) The Pro and Cons of Punishment

f) Shaping

Module 2 Memory

2.1 The Foundations of memory

a) Sensory Memory

b) Short-Term Memory

c) Working Memory

2.2 Long-Term Memory

a) Long-Term Memory Modules

b) Semantic Networks

c) The Neuroscience of Memory

2.3 Autobiographical Memory

Module 3 Personality

3.1 Definition of Personality

3.2 Psychodynamic Approaches to Personality

a) Freud's Psychoanalytic Theory

i) Structuring Personality

ii) Developing Personality

iii) Defense Mechanisms

3.3 Trait Approaches

a) Allport's Trait Theory

b) Cattell and Eysenck

c) Big Five Personality Traits

3.4 Assessing Personality

a) Self-report Measures of personality

b) Projective Methods

c) Behavioral Assessment

Module 4 Intelligence

4.1 What is intelligence?

4.2 Theories of Intelligence

a) Fluid and Crystallized Intelligence

b) Gardner's Multiple Intelligences

4.3 Practical and Emotional Intelligence

4.4. Assessing Intelligence - Binet and development of IQ tests

4.5 Mental Retardation

4.6 The Intellectually Gifted

Shivaji University, Kolhapur



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B. A. Part –I

Scientific Method (Compulsory)

(Syllabus to be implemented from June 2022 onwards)

Choice Based Credit System
B. A. Part – I
Scientific Method (Compulsory)
June 2022 onwards

Preamble: The board of studies should briefly mention foundation, core and applied components of the course / paper. The student should get into the prime objectives and expected level of study with required outcome in terms of basic and advanced knowledge at examination level

General objectives of the course

As applicable to the degree/ Subject- Paper concerned

1. To make acquainted with science
2. To impart value education
3. To explain the major teaching principles of causation
4. To discuss the major problem of scientific method
5. Explain the importance of Techniques of Social Research
6. Explain the importance of scientific method
7. To create awareness about Science and Technology among students with Scientific method

Duration:

- The course shall be a full time course
- The duration of course shall be of Three 2022-23 years I & II semesters

Pattern:

Pattern of examination will be semester

Medium of instruction English / Marathi

The medium of instruction shall be in English or Marathi (as applicable in the course / program concerned.)

B. A. PART - I
SEM-I (June 2022)
Scientific Method (Compulsory)

	Module	Teaching Hours	Credits
Module: 1	Nature of Science	15	01
	1.1 Definition and Characteristics of Science		
	1.2 Commonsense and Science		
	Classification of Sciences		
	1.3 Natural and social Sciences		
	1.4 Positive and Normative Sciences		
Module: 2	Postulates of Science	15	01
	2.1 Nature of Postulates		
	2.2 Uniformity of Nature		
	2.3 Principle of Causality		
	2.4 Objectivity		
Module: 3	Scientific Investigation	15	01
	3.1 Stages of Scientific investigation		
	3.2 Nature and Characteristics of Scientific observation		
	3.3 Fallacies of observation		
	3.4 Merits and demerits of observation and Experiment		
Module: 4	Techniques of Social Research	15	01
	4.1 Nature of Social Research		
	4.2 Survey		
	4.3 Questionnaire		
	4.4 Interview		

बी. ए. भाग-1
वैज्ञानिक पध्दती (आवश्यक)
सत्र पहिले

	Module	Teaching Hours	Credits
Module: 1	विज्ञानाचे स्वरूप -	15	01
	1.1 विज्ञानाची व्याख्या व वैशिष्ट्ये		
	1.2 व्यावहारिक ज्ञान व विज्ञान		
	विज्ञानाचे वर्गीकरण:		
	1.3 निसर्गशास्त्रे व सामातिकशास्त्रे		
	1.4 वस्तुनिष्ठशास्त्रे व आदर्शशास्त्रे		
Module: 2	विज्ञानाची गृहितके	15	01
	2.1 गृहितकांचे स्वरूप		
	2.2 निसर्गाच्या एकविधतेचे तत्त्व		
	2.3 कारणकार्य संबंधाचे तत्त्व		
	2.4 वस्तुनिष्ठतेचे तत्त्व		
Module: 3	वैज्ञानिक संशोधन	15	01
	3.1 वैज्ञानिक संशोधनाच्या अवस्था -		
	3.2 वैज्ञानिक निरीक्षणाचे स्वरूप व वैशिष्ट्ये		
	3.3 निरीक्षणाचे दोष		
	3.4 निरीक्षण आणि प्रयोगाचे गुण आणि दोष		
Module: 4	सामाजिक संशोधनाची तंत्रे	15	01
	4.1 सामाजिक संशोधनाचे स्वरूप		
	4.2 सर्वेक्षण		
	4.3 प्रश्नावली		
	4.4 मुलाखत		

B. A. PART - I
SEM-II (June 2022)
Scientific Method (Compulsory)

	Module	Teaching Hours	Credits
Module: 1	Hypothesis	15	01
	1.1 Definition and nature of hypothesis		
	1.2 Conditions of valid hypothesis		
	1.3 Verification		
	1.4 Proof of hypothesis		
Module: 2	Laws and Scientific Explanation	15	01
	2.1 Meaning of Law and Kinds of Laws		
	2.2 Kinds of Laws of Nature		
	2.3 Nature of Scientific Explanation		
	2.4 Definition and Kinds of Explanation		
Module: 3	Scientific Attitude	15	01
	3.1 Nature and importance of Scientific Attitude.		
	3.2 Ecological Balance		
	3.3 AIDS Awareness		
	3.4 Scientific attitude towards water consumption		
Module: 4	Computer Education	15	01
	4.1 Definition and Nature of Computer		
	4.2 Hardware and Software		
	4.3 Parts of Computer		
	4.4 Uses of Computer in various fields		

बी. ए. भाग-1
वैज्ञानिक पध्दती (आवश्यक)
सत्र दुसरे

	Module	Teaching Hours	Credits
Module: 1	अभ्युपगम (सिध्दांतकल्पना)	15	01
	1.1 अभ्युपगमाची व्याख्या व स्वरूप		
	1.2 युक्त अभ्युपगमाच्या अटी		
	1.3 अभ्युपगमाची प्रचीती		
	1.4 अभ्युपगमाची सिध्दता		
Module: 2	नियम व वैज्ञानिक स्पष्टीकरण	15	01
	2.1 नियमाचा अर्थ व प्रकार		
	2.2 निसर्ग नियमांचे प्रकार		
	2.3 वैज्ञानिक उपपादनाचे स्वरूप		
	2.4 स्पष्टीकरण : व्याख्या व प्रकार		
Module: 3	वैज्ञानिक दृष्टिकोण	15	01
	3.1 वैज्ञानिक दृष्टिकोणाचे स्वरूप व महत्व		
	3.2 पर्यावरणीय समतोल		
	3.3 एडम् जाणिव जागृती		
	3.4 पाण्याच्या वापराबाबतचा वैज्ञानिक दृष्टिकोण		
Module: 4	संगणक शिक्षण	15	01
	4.1 संगणकाची व्याख्या व स्वरूप		
	4.2 हार्डवेअर व सॉफ्टवेअर		
	4.3 संगणकाचे भाग		
	4.4 विविध क्षेत्रातील संगणकाचे उपयोग		

Books for Reading		
1.	An Introduction to Logic and Scientific Method	Cohen and Nagel
2.	Essentials of Scientific Method	Wolf
3.	Science and Scientific Method	Korade, Sawant
4.	Introduction to Logic	K.T.Basantani
5.	A.B.C. of Computer	M.G. Patkar 6. AIDS
6.	Education for student youth	Arain Mounal
7.	Scientific Method	Shivaji University Publication Hirve, Pitake, Nargare, Mrs. Patankar
8.	तर्कशास्त्र आणि वैज्ञानिक पध्दती	वाडेकर, हरोलीकर

9.	तर्कशास्त्र	श्री. ह. दीक्षित
10.	वैज्ञानिक पध्दती	ज. रा. दाभोळे
11.	वैज्ञानिक पध्दती	शिवाजी विद्यापीठ कोल्हापूर प्रा. हिरवे प्रा. नांगरे, प्रा.पिटके, प्रा. फरतारे, प्रा. वाघमोडे, प्रा. चौगुले
12.	तर्कशास्त्र व वैज्ञानिक पध्दती	काळे, कावळे, हुल्याळकर
13.	कॉम्प्युटरचा वाटाडया	शशिकांत वाकरे
14.	जैव तंत्रज्ञान	डॉ. प्रमोद जोगळेकर
15.	E-Content विज्ञान आणि त्याचे स्वरूप https://youtu.be/vffUu3lLjhA व्यावहारिक ज्ञान व विज्ञान https://youtu.be/YyCcEFmpekC कारणाचे स्वरूप https://youtu.be/hL4XwzgPeRQ पर्यावरणाचे स्वरूप https://youtu.be/xR-UmBovr_8 शुद्ध शास्त्रे व उपयोजित शास्त्रे https://youtu.be/Ly-6Vlw6ftA पर्यावरण अर्थ आणि त्याचे प्रकार https://youtu.be/sZkYQzRvPiA पर्यावरणाचे महत्व https://youtu.be/xR-UmBovr_8 पर्यावरणाची व्याप्ती https://youtu.be/xR-UmBovr_8 पर्यावरण प्रश्नावली https://youtu.be/YGbggoSkmbIw	Dr. Sunil B. Bhoite

NATURE OF QUESTION PAPER AND SCHEME OF MARKING

B.A. Part-I (Semester-I) Examination -----

Scientific Method (Compulsory) paper -----

Title -----

Sub. Code -----

Day & Date:

Time:

Total Marks: 40

Instructions: 1. All questions are compulsory.

2. Figures to the right indicate full marks.

Q 1 Complete the following sentences by choosing correct alternatives. (05)

- 1.
- 2.
- 3.
- 4.
- 5.

Q 2 Write short notes (any three)

(15)

A.

B.

C.

D.

E.

Q 3 Write detail answers on any two of the following.

(20)

A.

B.

C.

Internal Evaluation 10 Marks

B.A. – I Semester-I Home Assignment

B.A. – I Semester-II Unit Test

Shivaji University, Kolhapur
B.A. (Part II) Semester III (CBCS Pattern)

Introduced from June, 2019 Onwards

- i. Paper : I**
ii. Title of paper : FOUNDATIONS OF HUMAN DEVELOPMENT (I.D.S.)

iii. Specific objectives :

1. To acquaint the students with processes of change and stability through about the human lifespan.
2. To introduce the birth process.
3. To recognize characteristics of the infant & babyhood.
4. To acquaint the students physical development in babyhood.
5. To recognize the common physical hazards of babyhood.
6. To introduce characteristics of the childhood.
7. To acquaint the students emotions of early childhood.
8. To recognize the physical & psychological hazards of late childhood.

iv. Module	No. of credits
Module- 1: About Human Development	01
Module- 2: Conceiving New Life	01
Module- 3: Infancy and Babyhood	01
Module- 4: Childhood	01

v. Equivalence

Old Paper	New Paper
Human Development (I.D.S.)	Foundations of Human Development(I.D.S.)

vi. Recommended reading

a) Basic Reading :

1. Hurlock, Elizabeth B. (1980). Developmental Psychology- A Life - span Approach, Fifth edition 8th 1989, Reprint.
New Delhi: Tata McGraw – Hill Publishing Company Ltd.

2. Papalia, Diane E., Olds, Sally Wendkos, (1992). Human Development, 5th edition, second reprint 1996, New Delhi :Tata McGraw – Hill Publishing Company Limited .

b) References :

1. Berk, Laura E. (2007). Development Through the Lifespan – Third Edition, Law Price Edition, Pearson Education Inc.
2. Hurlock E. B. (2001) : Developmental Psychology, A Life Span Approach, New Delhi : TMH Publishing Company Ltd.
3. Papalia, Diane E and Olds Sally Wendkas (2002). Human Development, 7th edition, Second print, New Delhi: Tata McGraw Hill Publishing Company Ltd.
4. Door Shikshan Kendra, Shivaji Vidyapeeth, (2008). Manavi vikas, Kolhapur: Kulsachiv, Shivaji University, Kolhapur.
5. Borude, Kumthekar, Desai, Golvilkar (2013). Vaikasik Manasshatra, dusari aavrutti, Pune: Vidyarthi Gruha Prakashan.
6. Kandalkar Leena (2000). Manav Vikas, Nagpur : Vidya Prakashan.
7. Vharadpande, Nalini (2001). Balvikas, Nagpur : Maharashtra Grantha Nirmiti Mandal.
8. Jadhav, K.M. (2007). Manavi Vikasache Manasshstra, Pune: Dimond Publication.
9. Hirve, Tadsare (1997). Vaikasik Manasshstra, Kolhapur: Phadake Prakashan.

Shivaji University, Kolhapur
B.A. (Part II) Semester III (CBCS Pattern)
Foundations of Human Development (I.D.S.)
Revised Course Syllabus to Be Implemented From June, 2019 Onwards

Paper- I

Module - I About Human Development

- 1.1- Introduction to Human Development**
- 1.2- Domains of Human Development**
 - a. Major Domains
 - b. Periods of Life-span
- 1.3- Influences on Development**
 - a. Individual Differences
 - b. Heredity
 - c. Environment
 - d. Maturation
- 1.4- Theoretical Perspectives**
 - a. Psychoanalytic Perspectives
 - b. Learning Perspectives
 - c. Cognitive Perspectives
- 1.5- Research Methods**
 - a. Sampling
 - b. Forms of Data Collection

Module – II Conceiving New Life

- 2.1- How Fertilization Takes Place?**
 - a. Fertilization
 - b. What Causes Multiple Births?
 - c. What Determines Sex?
- 2.2- Prenatal Development**
 - a. Stages of Prenatal Development
 - b. Environmental Influences
 - c. Prenatal Care
- 2.3- The Birth Process**
 - a. Stages of Child Birth
 - b. Methods of Delivery.

Module – III Infancy and Babyhood

- 3.1- Characteristics of Infancy**
- 3.2- Major Adjustments of Infancy**

- 3.3- Characteristics of Babyhood
- 3.4- Physical Development
- 3.5- Physical Hazards of Babyhood

Module - IV Childhood

- 4.1- Characteristics of Childhood
 - a. Characteristics of Early Childhood
 - b. Characteristics of Late Childhood
- 4.2- Emotions of Early Childhood
- 4.3- Factors Affecting the Self-Concept in Late Childhood
- 4.4- Hazards of Late Childhood
 - a. Physical Hazards
 - b. Psychological Hazards

Shivaji University, Kolhapur
B.A. (Part II) Semester IV (CBCS Pattern)
 Introduced from June, 2019 Onwards
Modern Human Development (I.D.S.)

- i) **Paper** : II
- ii) **Title of paper** : **Modern Human Development (I.D.S.)**
- iii) **Specific objectives** :
 1. To makes the students familiar with adolescence developmental process & health.
 - 2) To recognize the family relationship with adolescents.
 - 3) To introduced the problems of adolescents.
 - 4) To introduced the physical development of adulthood.
 - 5) To acquaint the students attraction, love & close relationship.
 - 6) To introduced the physical development of middle age.
 - 7) To recognize the work & personal relationships of middle age.
 - 8) To acquaint the students with process of physical changes & physical development of old age.
 - 9) To introduced the health, process of work & retirement of old age.
- iv)

Module	No. of credits
Module- 1: Adolescence	01
Module- 2: Adulthood	01
Module- 3: Middle adulthood (Middle age)	01
Module- 4: Late adulthood (Old Age)	01

v) **Equivalence**

Old Paper	New Paper
Human Development (I.D.S.)	Modern Human Development(I.D.S.)

vi) **Recommended reading**

a). Basic Reading :

1. Diane, E. Papalia, Sally Wendkos Olds, (1994). Human Development, Fifth Editions, New Delhi: TMH Publishing Co. Ltd.
2. Santrock, J. W. (2011). Life span Development, Thirteenth edition, New Delhi: McGraw – Hill Education (India) Pvt. Ltd.

b). References :

1. Berk, Laura E. (2007). Development Through the Lifespan – Third Edition, Law Price Edition, Pearson Education Inc.
2. Hurlock E. B. (2001). Developmental Psychology, A Life Span Approach, New Delhi : TMH Publishing Company Ltd.
3. Papalia, Diane E and Olds Sally Wendkas (2002). Human Development, 7th edition, Second print, New Delhi: Tata McGraw Hill Publishing Company Ltd.
4. Door Shikshan Kendra, Shivaji Vidyapeeth, (2008). Manavi vikas, Kolhapur: Kulsachiv, Shivaji University, Kolhapur.
5. Borude, Kumthekar, Desai, Golvilkar (2013). Vaikasik Manasshatra, dusari aavrutti, Pune: Vidyarthi Gruha Prakashan.
6. Kandalkar Leena (2000). Manav Vikas, Nagpur : Vidya Prakashan.
7. Vharadpande, Nalini (2001). Balvikas, Nagpur : Maharashtra Grantha Nirmiti Mandal.
8. Jadhav, K.M. (2007). Manavi Vikasache Manasshstra, Pune: Dimond Publication.
9. Hirve, Tadsare (1997). Vaikasik Manasshstra, Kolhapur: Phadake Prakashan.

Shivaji University, Kolhapur
B.A. (Part II) Semester IV (CBCS Pattern)
Revised Course Syllabus to Be Implemented From June, 2019 Onward

Modern Human Development (IDS)

Paper- II

Module –I Adolescence

1.1- Physical Changes

- a. Puberty
- b. The Brain
- c. Adolescent Sexuality

1.2- Adolescent Health

- a. Nutrition and Exercise
- b. Substance Use and Abuse
- c. Eating Disorders

1.3- Families Relationship

- a. Parental Monitoring
- b. Autonomy and Attachment
- c. Parent- Adolescent Conflict

1.4- Adolescent Problems

- a. Juvenile Delinquency
- b. Depression and Suicide
- c. The Interrelation of Problems and Intervention Programs

Module-II Adulthood

2.1- Physical Development

- a. Physical Performance and Development
- b. Health
- c. Eating and Weight
- d. Regular Exercise

2.2- Attraction, Love and Close Relationship

- a. Attraction
- b. Faces of Love
- c. Falling Out of Love

2.3- Marriage and Family

- a. Making Marriage Work
- b. Becoming a Parent
- c. Dealing with Divorce

Module- III Middle Adulthood

3.1- Physical Development

- a. Sensory and Psychomotor Functioning

- b. Sexuality
- 3.2- Health in Middle Adulthood**
 - a. Health Status
 - b. Health Problems
- 3.3- Works in Middle Adulthood**
 - a. Occupational Patterns
 - b. Occupational Stress
 - c. Unemployment
- 3.4- Personal Relationships**
 - a. Marriage and Divorce
 - b. Relationships with Siblings
 - c. Relationships with Maturing Children
 - d. Relationships with Aging Parents

Module- IV Late Adulthood (Old Age)

- 4.1- Physical Development**
 - a. Longevity and the Aging Process
 - b. Life Expectancy
 - c. Why People Age?
- 4.2- Physical Changes**
 - a. Sensory and Psychomotor Functioning
 - b. Other Physical Changes
 - c. Reserve Capacity
- 4.3- Health**
 - a. Influences on Health and Fitness
 - b. Health Care and Health Problems
- 4.4- Work and Retirement**
 - a. Why People Retire?
 - b. How People Feel about Retirement?
 - c. Making the Most of Retirement

Nature of Question Paper for semester III & IV (Paper I & II)

	Total Marks- 50
Q.1) Select the correct alternative from the following	10
Q.2) Write Short Notes (any four out of six)	20
Q.3) A) Broad question	10
Or	
B) Broad question	
Q.4) A) Broad question	10
Or	
B) Broad question	

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B.A. (Part II)
Psychology
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Semester - III

- i. Paper : III**
ii. Title of paper : PSYCHOLOGY FOR LIVING

iii. Specific objectives :

1. To acquaint the students with processes of Psychology for living.
2. To introduce students the concept of Stress.
3. To acquaint the students with Understanding mental disorders.
4. To introduce students various Psychotherapies and their uses.

iv. Module	No. of credits
Module- 1:Towards Better Health	01
Module- 2:Stress	01
Module- 3:Understanding Mental Disorders	01
Module- 4:If You go for help	01

v. Equivalence

Old Paper	New Paper
CHILD PSYCHOLOGY	PSYCHOLOGY FOR LIVING

vi. Recommended reading

a) Book for Study:

Kirsh, S.J., Duffy, K.G., & Atwater, E. (2015). *Psychology for Living- Adjustment, Growth, and Behavior Today*. (11th ed.). Noida (UP) :Pearson India Education Services Pvt. Ltd.

b) Books for Reference:

- c) Atwater, E. (1994). *Psychology for Living* (5th ed.). New Delhi: Prentice-Hall of India Private Ltd.
- d) Barve, B. N. (1998). *Jivanmanache Manasshastra*. Jalana: Sankalp Pub.
- e) Weiten, W. & Margaret, A.L. (1994). *Psychology Applied to Modern Life*, (7th ed.).Singapore: Thomson Asia Pvt. Ltd.

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Semester – III

PSYCHOLOGY FOR LIVING (Paper III)

Module I: Towards Better Health

1.1 Body Image

- A. How We Feel About Our Bodies?
- B. Media and Body Image
- C. Our Ideal Body

1.2 Health and the Mind-Body Relationship

- A. The Immune System
- B. Personality
- C. Life Style Choices
- D. Environmental Issues

1.3 Promoting Wellness

- A. Taking Charge of Your Own Health
- B. Eating Sensibly
- C. Keeping physically fit
- D. Finding Social Support

Module II: Stress

2.1 Understanding Stress

- A. Conceptualizing Stress
- B. Major Causes of Stress
- C. Stress in College

2.2 Reactions to Stress

- A. Physiological Stress Reactions
- B. Psychological Stress Reactions
- C. How Do You React to Stress?

2.3 Managing Stress

- A. Modifying Your Environment
- B. Altering Your Lifestyle
- C. Using Stress for Personal Growth

Module III: Understanding Mental Disorders

3.1 Psychological Disorders

- A. What are Psychological Disorders?

B. How Common Are Psychological Disorders?

C. Putting Mental Health in Perspective

3.2 Anxiety disorders

A. Generalized Anxiety Disorders

B. Panic Disorders

C. Phobias

D. Obsessive-Compulsive Disorder

3.3 Mood Disorders

A. Depressive Disorders

B. Bipolar Disorder

C. Suicide

Module 4: If You go for help

4.1 Psychotherapy

A. Gender differences in adulthood

B. Cultural Issues

C. Applying it to Yourself

4.2 Insight Therapies

A. Psychoanalysis

B. Person-centered Approach

4.3 Cognitive and Behavioural Therapies

A. Behavioural Therapies

B. Cognitive Therapies

C. Cognitive-Behavioural Therapy

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Psychology
(Introduced from June 2019 onwards)
Semester – III

i. Paper : IV

ii. Title of paper : SOCIAL PSYCHOLOGY

iii. Specific objectives :

1. To acquaint the students with processes of Social Psychology
2. To introduce students the concept of Social Perception.
3. To acquaint the students with the Self and self esteem.
4. To introduce students concept of attitude formation, persuasion and cognitive dissonance.

iv. Module	No. of credits
Module- 1: Introduction to Social Psychology	01
Module- 2: Social Perception	01
Module- 3: The Self	01
Module- 4: Attitude	01

v. Equivalence

Old Paper	New Paper
SOCIAL PSYCHOLOGY	SOCIAL PSYCHOLOGY

vi. Recommended reading

a) Book for Study:

Branscombe, N. R., Baron, R. A. & Kapur, P. (2017). Social Psychology.(14th ed.), Noida (UP) :Pearson India Education Services Pvt. Ltd., Second Impression 2018 .

b) Books for Reference:

1. Aronson, E., Wilson, T. D., Akert, R. M. & Sommers, S. R. (2015). Social Psychology, (9th ed.), New Jersey: Pearson Education Prentice Hall.
2. Baron, R. A., & Branscombe, N. R. (2012). Social Psychology. (13th ed.). New Delhi: Pearson Education; Indian reprint 2014.
3. Mercer, J. & Clayton, D.(2014). Social Psychology, New Delhi: Dorling Kindersley India Pvt. Ltd.

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(Introduced from June 2019 onwards)

Semester – III

SOCIAL PSYCHOLOGY (Paper – IV)

Module 1. Introduction to Social Psychology

1.1: Definition of Social Psychology:

- A. Social Psychology Is Scientific in Nature
- B. Social Psychology Focuses on the Behavior of Individuals
- C. Social Psychology Seeks to Understand the Causes of Social Behavior

1.2: Social Psychology: Advances at the Boundaries

- A. Cognition and Behavior
- B. The Role of Emotion in the Social Side of Life
- C. Social Relationships

1.3: Research as the Route to Increased Knowledge

- A. Systematic Observation
- B. The Experimental Method
- C. Correlational Method

Module 2. Social Perception

2.1: Nonverbal Communication

- A. Basic Channels of Nonverbal Communication
- B. Nonverbal Cues in Social Life
- C. Recognizing Deception

2.2: Attribution

- A. Theories of Attribution
- B. Basic Sources of Error in Attribution
- C. Applications of Attribution Theory

2.3: Impression Formation and Management

- A. Impression Formation
- B. Impression Management

Module 3. The Self

3.1: Self-Presentation

- A. Self–Other Accuracy in Predicting Our Behavior
- B. Self-Presentation Tactics

3.2: Personal Identity versus Social Identity

- A. Who I Think I Am Depends on the Social Context?
- B. Who I Am Depends on Others' Treatment ?

3.3: Self-Esteem

- A. The Measurement of Self-Esteem
- B. How Migration Affects Self-Esteem?
- C. Do Women and Men Differ in Their Level of Self-Esteem?

Module 4. Attitude

4.1: Attitude Formation

- A. Classical Conditioning
- B. Instrumental Conditioning
- C. Observational Learning

4.2: The Science of Persuasion

- A. Persuasion: Communicators, Messages, and Audiences
- B. The Cognitive Processes Underlying Persuasion

4.3: Cognitive Dissonance

- A. Dissonance and Attitude Change
- B. Alternative Strategies for Resolving Dissonance
- C. When Dissonance Is a Tool for Beneficial Changes in Behavior?

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Semester IV

- i. Paper : V**
ii. Title of paper : MODERN SOCIAL PSYCHOLOGY

iii. Specific objectives :

1. To acquaint the students with processes of liking (attraction) and sources of liking.
2. To introduce students the concept of Social influence, Conformity and Compliance.
3. To acquaint the students with Understanding Prosocial Behavior.
4. To introduce students the concept of Aggression, its causes and control.

iv. Module	No. of credits
Module- 1: Liking (Attraction)	01
Module- 2: Social Influence	01
Module- 3: Prosocial Behavior	01
Module- 4: Aggression	01

v. Equivalence

Old Paper	New Paper
DEVELOPMENTAL PSYCHOLOGY	MODERN SOCIAL PSYCHOLOGY

vii. Recommended reading

a) Book for Study:

Branscombe, N. R., Baron, R. A. & Kapur, P. (2017). Social Psychology.(14th ed.), Noida (UP) :Pearson India Education Services Pvt. Ltd., Second Impression 2018 .

b) Books for Reference:

- 1) Aronson, E., Wilson, T. D., Akert, R. M. & Sommers, S. R. (2015). Social Psychology, (9th ed.), New Jersey: Pearson Education Prentice Hall.
- 2) Baron, R. A., & Branscombe, N. R. (2012). Social Psychology. (13th ed.). New Delhi: Pearson Education; Indian reprint 2014.
- 3) Mercer, J. & Clayton, D.(2014). Social Psychology, New Delhi: Dorling Kindersley India Pvt. Ltd.

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Semester IV

MODERN SOCIAL PSYCHOLOGY (Paper V)

Module 1. Liking (Attraction)

1.1: Internal Sources of Liking Others

- A. The Importance of Affiliation in Human Existence
- B. The Role of Affect

1.2: External Sources of Attraction

- A. The Power of Proximity
- B. Physical Beauty

1.3: Sources of Liking Based on Social Interaction

- A. Similarity
- B. Reciprocal Liking or Disliking
- C. Social Skills
- D. Personality and Liking

Module 2. Social Influence

2.1: Conformity

- A. Social Pressure
- B. How Social Norms Emerge
- C. Factors Affecting Conformity
- D. Social Foundations of Conformity
- E. Reasons for Nonconformity

2.2: Compliance

- A. The Underlying Principles of Compliance
- B. Tactics Based on Friendship or Liking
- C. Tactics Based on Commitment or Consistency
- D. Tactics Based on Reciprocity

Module 3. Prosocial Behavior

3.1: Why People Help?

- A. Empathy-Altruism
- B. Negative-State Relief
- C. Empathic Joy

3.2: Factors That Increase or Decrease the Tendency to Help

- A. Factors That Increase Prosocial Behavior
- B. Factors That Reduce Helping

3.3: Crowd funding: A New Type of Prosocial Behavior

- A. Emotion and Prosocial Behavior
- B. Gender and Prosocial Behavior

3.4: Final Thoughts: Are Prosocial Behavior and Aggression Opposites?

Module 4. Aggression

4.1: Perspectives on Aggression

- A. The Role of Biological Factors
- B. Drive Theories
- C. Modern Theories of Aggression

4.2: Causes of Human Aggression

- A. Basic Sources of Aggression
- B. Social Causes of Aggression
- C. Gender and Aggression
- D. Situational Determinants of Aggression

4.3: The Prevention and Control of Aggression

- A. Punishment
- B. Self-Regulation
- C. Catharsis
- D. Reducing Aggression by Thinking Nonaggressive Thoughts

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Psychology
(Introduced from June 2019 onwards)
Semester IV

- i. Paper : VI**
ii. Title of paper : APPLIED PSYCHOLOGY

iii. Specific objectives :

1. To acquaint the students with processes of Personal control, Decision Making and Personal growth.
2. To introduce students the work, career, play and using leisure positively.
3. To acquaint the students with Making and keeping friends
4. To introduce students the concept of Love and Commitment.

iv. Module	No. of credits
Module- 1: Taking Charge	01
Module- 2: At Work and Play	01
Module- 3: Making and keeping friends	01
Module- 4: Love and Commitment	01

v. Equivalence

Old Paper	New Paper
APPLIED PSYCHOLOGY	APPLIED PSYCHOLOGY

viii. Recommended reading

Recommended Reading:

a) Book for Study:

Kirsh, S.J., Duffy, K.G., & Atwater, E. (2015). *Psychology for Living- Adjustment, Growth, and Behavior Today*. (11th ed.). Noida (UP) :Pearson India Education Services Pvt. Ltd.

b) Books for Reference:

1. Atwater, E. (1994). *Psychology for Living* (5th ed.). New Delhi: Prentice-Hall of India Private Ltd.
2. Barve, B. N. (1998). *Jivanmanache Manasshastra*. Jalana: Sankalp Pub.
3. Weiten, W. & Margaret, A.L. (1994). *Psychology Applied to Modern Life* (7th ed.).Singapore: Thomson Asia Pvt. Ltd.

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(Introduced from June 2019 onwards)
Semester IV

APPLIED PSYCHOLOGY (Paper VI)

Module I: Taking Charge

1.1 Personal Control

- A. Explaining Perceived Control
- B. The Benefits of Perceived Control
- C. Misperception and Maladjustment
- D. Learned Optimism
- E. Defensive Pessimism

1.2 Decision Making

- A. The Process of Decision Making
- B. Critical Elements in Decision Making
- C. Post-Decision Regret
- D. Making Better Decisions

1.3 Decisions and Personal Growth

- A. Making New Decisions
- B. Some practical Applications

Module II: At Work and Play

2.1 At Work

- A. Taking Stalk of Yourself
- B. Identifying Compatible Careers
- C. Arriving at Your Career Decision
- D. Landing a Job
- E. Changing Jobs or Careers
- F. Work Issues Related to Culture and Gender

2.2 At Play

- A. What is Leisure?
- B. Using Leisure Positively
- C. Leisure across Adulthood

Module III: Making and keeping friends

3.1 Meeting People

- A. Are First Impressions Most Important?
- B. Factors that Influence First Impressions
- C. Mistaken Impressions

3.2 Keeping Friends

- A. When Friends Get Together?
- B. Self-disclosure – Those Little Secrets
- C. Gender Differences in Friendship
- D. Staying Friends

3.3 When It's Hard to Make Friends?

- A. Shyness
- B. Loneliness

Module IV: Love and Commitment

4.1 Love is a Many Splendored (and Defined) Thing

- A. The Many Definitions of Love
- B. Love and Friendship
- C. Love and Attachment

4.2 Finding Love

- A. Online Dating
- B. The importance of Self-disclosure

4.3 Marriage and Other Committed Relationships

- A. Cohabitation
- B. Marriage

4.4 Adjusting to Intimate Relationships

- A. Attitude adjustment
 - B. Sharing Responsibilities
 - C. Communication and Conflict
 - D. Making the Relationship Better
 - E. Sexuality
-

Nature of Question Paper for B. A. II Psychology (Paper III to VI)

(Semester III and IV) (Per Paper Total Marks = 50)

- Q.1. Multiple Choice Questions-(10 questions with 4 alternatives) 10 marks
- Q.2.Short notes (any four out of six) 20 marks
- Q.3. A) Broad Question 10 marks
- OR
- B) Broad Question 10 marks
- Q.4. A) Broad Question 10 marks
- OR
- B) Broad Question 10 marks

Shivaji University, Kolhapur

Syllabus for Bachelor of Arts

Part – II

Semester III and IV

Implemented from June 2019 onwards

1. Title :- Subject Philosophy

Optional / IDS under the faculty of social science

2. Year of Implementation:-

Revised Syllabus to be implemented from June 2019-20 onwards.

3. Preamble:-

The Board of studies emphasizes the foundation core and applied components of the course / paper. With the aim to enable students to attain objectives with the expected level of study of basic and advanced knowledge of the subject.

4. General Objectives of The Course/Paper:-

- 1) To make acquainted with Indian and Western Philosophy.
- 2) To discuss the major problems of philosophy.
- 3) To impart value education.
- 4) Explain the importance of Indian Systems of Philosophy.

5. Duration:-

The Course shall be a full time course.

The duration of course shall be of three Years.

6. Pattern:-

Pattern of examination will be semester & CBCS

7. Eligibility For Admission:-

B. A. part I Passed.

As per eligibility criteria of each course and the merit list in the qualification examination.

8. Medium of Instruction:- English / Marathi

The medium of instruction shall be in English or Marathi as applicable to the course / programme concerned.

9. Structure of Course:–

Revised Syllabus of B. A. part II Philosophy.

Sr. No.	Semester	Title of Paper	Paper Nos.
1	Semester III	Ethics (Indian)	Paper III
2	Semester III	Social and Political Philosophy (Part – I)	Paper IV
3	Semester IV	Ethics (Western)	Paper V
4	Semester IV	Social and Political Philosophy (Part – II)	Paper VI
5	Semester III	Alternative Course (A) Modern Logic (Propositional Logic)	I. D. S.
6	Semester III	Alternative Course (B) Traditional Logic (Deductive Logic)	I. D. S.
7	Semester IV	Alternative Course (A) Modern Logic – Predicate / Quantificational Logic and Set theory	I. D. S.
8	Semester IV	Alternative course (B) Traditional Logic Inductive Logic	I. D. S.

10. Equivalence in Accordance with Titles and Contents of Paper (For Revised Syllabus)

Sr.No.	Title of Old Paper	Title of New Paper
1	Ethics Paper II (Indian – western) (Section – I) Ethics Paper II (Indian – western) (Section – II)	1) Semester III Ethics (Indian) Paper III 2) Semester IV Ethics (Western) Paper V
2	Social and Political Philosophy Paper III (Section – I) Social and Political Philosophy Paper III (Section – II)	1) Semester III Social and Political Philosophy 2) Semester IV Social and Political Philosophy (Part – II) Paper – IV
3	Alternative Course (A) Modern Logic (I. D. S.) (Section – I)	1) Semester III Alternate Course (A) Modern Logic (Propositional

	Alternative Course (A) Modern Logic (I. D. S.) (Section – II)	Logic) 2) Semester IV Alternative Course (A) Modern Logic Predicate Quantificational Logic and Set theory (I. D. S.)
4	Alternative Course (B) Traditional Logic (I. D. S.) (Section – I) Alternative Course (B) Traditional Logic (I. D. S.) (Section – II)	1) Semester III Alternate Course (B) Traditional Logic Deductive Logic (I. D. S.) 2) Semester IV Alternate Course (B) Traditional Logic Inductive Logic (I. D. S.)

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Revised Syllabus for B. A. – II Philosophy

Semester III

Ethics – (Indian) Paper – III

Specific objective – To explain the moral standards & ethical values

I) The Nature & Scope of Ethics

- A) The notion of Right and Good
- B) Descriptive & Normative ethics
- C) Meta Ethics

II) Pre Indian Ethics

- A) Dharma – meaning, definition and classification
- B) Theory of Karma
- C) Purusartha.

III) Some Indian Ethical Theories

- A) Gandhian Ethics – Ahimsa, Satya, Asteya, Brahmacharya & Aparigraha
- B) Buddhist Ethics – The four Noble truths and Eight fold path
- C) Jaina Ethics – Anuvratas & Mahavratas, Triratna, Sallekhana.

IV) Environmental Ethics in saint Literature. (In Maharashtra)

- A) Saint Dnyaneshwar
- B) Saint Tukaram
- C) Saint Sawtamali

**मराठी रूपांतर
नीतिशास्त्र (भारतीय)**

१. नीतिशास्त्राचे स्वरूप आणि व्याप्ती
 - अ) 'योग्य आणि ईष्ट' नैतिक संकल्पना
 - ब) वर्णनात्मक आणि आदर्शात्मक नीतिशास्त्र
 - क) रूढीप्रधान आणि विमर्शक (विचारप्रधान) नीति
२. भारतीय नीतिशास्त्राची गृहितके (पार्श्वभूमी)
 - अ) धर्म - अर्थ, व्याख्या आणि वर्गीकरण
 - ब) कर्म सिद्धांत
 - क) पुरुषार्थ
३. काही भारतीय नीतिशास्त्रीय उपपत्ती
 - अ) गांधीवादी नीतिशास्त्र - अहिंसा, सत्य, अस्तेय, ब्रह्मचर्य आणि अपरिग्रह
 - ब) बौद्धांचे नीतिशास्त्र - चार आर्यसत्ये आणि अष्टांग मार्ग
 - क) जैनांचे नीतिशास्त्र - अनुव्रते आणि महाव्रते, त्रीरत्ने, संलेखना
४. संत साहित्यातील पर्यावरणीय नीतिशास्त्र (महाराष्ट्रातील)
 - अ) संत ज्ञानेश्वर
 - ब) संत तुकाराम
 - क) संत सावतामाळी

Book For Reading

- संतांचे तत्वज्ञान परामर्श भाग १ व २ सावित्रीबाई फुले पुणे विद्यापीठ प्रकाशन
- K. Maitra, – The Ethics of Hindus, University of Calcutta, 1956.
- Kedarnath Tiwari, Classical Indian Ethical Thought, Motilal Banarsidas, Delhi, 1998.
- श्रीनिवास दीक्षित, नीतिमीमांसा
- प्रा. नांगरे, हिरवे फरतारे नीतिशास्त्र - शिवाजी विद्यापीठ प्रकाशन.
- माधवी कवि, भारतीय नीतिशास्त्र
- संत सावतामाळी चरित्र ए.व्ही. इनामदार पुणे
- ज्ञानेश्वर

● **Book For Reference**

- Bhelke S. E. & Gokhale P. P. (rd.) Indian Moral philosophy, Problems, Concept & perspectives, IPQ publication, Pune, 2002.

Environmental Concerns in saint literature,

- A) Applied Ethics
- B) With reference to sramana Tradition (Jainism & Buddhism)
- C) Environmental Concerns in Gandhian Philosophy.

- Saddhatissa H. Buddhist Ethics, Altem & Unwin, 1970.
- चौगुले पी.बी. संलेखना : एक तत्वज्ञानात्मक अभ्यास सन्मति ,प्रकाशन , बाहुबली 2009.

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
To be implemented from June – 2019
Semester III
Social and Political Philosophy (Part – I)
Paper – IV

Specific objective – To discuss social and political concepts and theories.

1) The Nature and Scope

- A) Nature and scope of Social and Political philosophy
- B) It's relation to sociology, political science and Ethics.

2) The Nature and Relation between

- A) Individual and Society
- B) State and Nation.
- C) Family – Human being

3) Political Ideologies

- A) Socialism –
- B) Democracy
- C) Sarvodaya

4) Methods of Political actions

- A) Constitutionalism
- B) Terrorism
- C) Satyagraha

मराठी रूपांतर
सामाजिक व राजकिय , तत्वज्ञान (भाग -१)
सत्र -३ पेपर -४

१. स्वरूप आणि व्याप्ती
 - अ) सामाजिक व राजकिय तत्वज्ञानाचे स्वरूप व व्याप्ती
 - ब) सामाजिक व राजकिय तत्वज्ञानाचा सामाजशास्त्र ,राज्यशास्त्र आणि नीतीशास्त्र यांच्याशी संबंध
२. स्वरूप व संबंध
 - अ) व्यक्ती व समाज
 - ब) राज्य व राष्ट्र
 - क) कुटुंब व व्यक्ती
३. राजकिय तत्वप्रणाली
 - अ) समाजवाद
 - ब) लोकशाही
 - क) सर्वोदय
४. राजकिय कृतीप्रणाली
 - अ) घटनावाद
 - ब) दहशतवाद
 - क) सत्याग्रह

Book For Reading

- Barker E. Principles of Social and Political philosophy
- Sinha A. K. Outline of Social philosophy
- Joshi N. V. Social and Political philosophy
- Raphael D. D. problems of Political philosophy
- Roy K. and Gupta (eds) : Essays in Social and Political philosophy
- M. K. Gandhi : Hind Swaraj
- Dr. B. R. Joshi : Indian Constitution
- Dr. T. K. Tope : Indian Constitution
- धर्माधिकारी हेमचंद्र :सामाजिक तत्वज्ञान
- सामाजिक व राजकिय तत्वज्ञान : प्रा.हिरवे नांगरे, फरतारे इ.
- सामाजिक शास्त्रामधील शास्त्रीय संज्ञा - सिध्दांत कोश डॉ .बी. आर. जोशी

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
Semester IV
Ethics – (Indian) Paper – V

Specific objective – To explain the moral standards & ethical values

I) End based Ethics

- A) Hedonism – Egoistic & Universalistic
- B) Utilitarianism – Bentham and Mill

II) Rule – based Ethics

- A) Intuitive Ethics
- B) Kantian Ethics

III) Virtue Ethics

- A) Socrates
- B) Plato
- C) Aristotle

IV) Morality and Theories of Punishment

- A) Retributive Theory
- B) Preventive Theory
- C) Reformatory Theory

मराठी रूपांतर
नीतिशास्त्र (भारतीय)

१. मुल्याधिष्ठित नीतिशास्त्र
 - अ) सुखवाद- स्वसुखवाद आणि सर्वसुखवाद
 - ब) उपयुक्ततावाद - बेन्थॅम आणि मिल्लं
२. नियमाधिष्ठित नीतिशास्त्र
 - अ) अंतःस्फूर्तिवादी नीतिशास्त्र
 - ब) कान्टचे नीतिशास्त्र
३. सद्गुणांचे नीतिशास्त्र
 - अ) सॉक्रेटीस
 - ब) प्लेटो
 - क) ऑरिस्टॉटल
४. शिक्षाविषयक सिध्दांत
 - अ) प्रतिशोधात्मक सिध्दांत
 - ब) प्रतिबंधात्मक सिध्दांत
 - क) सुधारणात्मक सिध्दांत

Book For Reading

- Frankenna William, An Introdition to Ethics, prentice Hall, Allied, Bombay.
- प्रा. श्रीनिवास दीक्षित - नीतिमीमांसा
- प्रा. पी.डी. चौधरी - नीतिशास्त्र
- प्रा.दि.य. देशपांडे - नीतिशास्त्राचे प्रश्न
- प्रा.नांगरे, हिरवे, फरतारे नीतिशास्त्र

Book For Reference

- Mackenzie J. S. – A manual of Ethics
- Titus Harold H. – Ethics for Today
- Broad C. D. – Five Types of Ethical Theory
- प्रा.मे.पु.रेगे - पाश्चात्य नीतिशास्त्राचा इतिहास

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
To be implemented from June – 2019
Semester IV
Social and Political Philosophy (Part – II)
Paper – VI

Specific Objective – To discuss social and political problems and theories.

1) Political ideals with special reference to Indian constitution.

- A) Liberty, equality and Justice
- B) Fundamental rights and Duties
- C) Directive principles of state policy

2) Social Institutions :

- A) Family : Joint and Nuclear
- B) Religion : It's role is social life

3) Social Change and Progress

- A) Concepts of social change and progress
- B) Criteria of social change and progress

4) Social Problems.

- A) Gender Equality.
- B) Corrupt Issues of Media / Uses of Media./ Social Networking
- C) Corruption.

मराठी रूपांतर

सामाजिक व राजकीय तत्वज्ञान (भाग -२)

सत्र - ४ पेपर - ६

१. भारतीय संविधानाच्या संदर्भात राजकीय आदर्श
 - अ) स्वातंत्र्य , समता व न्याय
 - ब) मुलभूत अधिकार (हक्क) आणि कर्तव्य
 - क) राज्याच्या धोरणाची मार्गदर्शक तत्वे
२. सामाजिक संस्था
 - अ) कुटुंब : संयुक्त व विभक्त
 - ब) धर्म: सामाजिक जीवनातील धर्माचे कार्य
३. सामाजिक परिवर्तन व प्रगती
 - अ) सामाजिक परिवर्तन व प्रगती या संकल्पना
 - ब) सामाजिक परिवर्तन व प्रगतीचे निष्कर्ष
४. सामाजिक दुरिते
 - अ) लिंग समानता
 - ब) सद्य स्थितीतील माध्यमापुढील समस्या ,प्रश्न ,आव्हाने / माध्यमाचे उपयोग /सामाजिक अभिसरण
 - क) भ्रष्टाचार

Book For Reading

- Barker E : Principles of Social and Political philosophy.
- Sinha A. K. : Outlines of Social philosophy
- Joshi N. V. : Social and political philosophy
- Raphael D. D. : Problems of political philosophy
- Roy K and Gupta (eds) : Essays in social and political philosophy
- M. K. Gandhi : Hind Swaraj
- Dr. B. R. Joshi : Indian Constitution
- Dr. T. K. Tope : Indian Constitution
- धर्माधिकारी हेमचंद्र : सामाजिक तत्वज्ञान
- सामाजिक व राजकीय तत्वज्ञान :हिरवे , नांगरे, फरतारे इ.
- सामाजिक शास्त्रामधील शास्त्रीय संज्ञा - सिध्दांत कोश डॉ.बी .आर.जोशी

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
To be implemented from June – 2019
Semester III
Alternative Course (A). Modern Logic (I.D.S.)
Propositional Logic

Objective: Introduction to western - modern concept of logic

1) Nature of Logic :

- A) Definition, Logic as a Formal Science of Inference
- B) Deductive and Inductive Inference
- C) Traditional classification of Propositions

2) Kinds of Propositions and Symbolization

- A) Simple and Compound Proposition
- B) Symbolizing Proposition
 - 1. Propositional Constants
 - 2. Propositional Variables
 - 3. Propositional Connectives
- C) Basic Truth tables of compound Propositions

3) Decision Procedures

- A) Truth – table method
- B) Short truth table method

4) Deductive Proof

- A) Rules of Inference
- B) Rules of Replacement
- C) 1. Proofs of Replacement by Direct, Indirect and conditional.
2. Profs of Tautologies by C. P. and I. P.

**मराठी रूपांतर
विधानीय तर्कशास्त्र**

१. तर्कशास्त्राचे स्वरूप
 - अ) व्याख्या ,तर्कशास्त्र -अनुमानाचे आकारिक शास्त्र
 - ब) निगामी व विगामी अनुमान
 - क) विधानांचे पारंपारिक वर्गीकरण
२. विधानांचे प्रकार आणि चिन्हांकन/चिन्हीकरण.
 - अ) साधी आणि संयुक्त विधाने
 - ब) विधानांचे चिन्हांकन
 - विधानीय अचरे
 - विधानीय चरे
 - विधानीय संयोजके
 - क) संयुक्त विधानांची मूलभूत सत्यता कोष्टके
३. निर्णय प्रक्रिया/पध्दती
 - अ) सत्यता सारिणी/ कोष्टक पध्दती
 - ब) लघु सत्यता कोष्टक पध्दती
४. निगामी सिध्दता
 - अ) अनुमानाचे नियम
 - ब) पर्यायणाचे नियम /प्रतिनिवेशनाचे नियम
 - क) १. युक्तिवादांची प्रत्यक्ष ,अप्रत्यक्ष वसोपाधिक पध्दतीने सिध्दता.
२. सर्वदासत्य विधानांची सोपाधिक वअप्रत्यक्ष पध्दतीने सिध्दता.

Book Recommended

- Symbolic Logic (4th ed.) I. M. Copi
- Formal Logic : Scope and Limits
- आकारिक तर्कशास्त्र -मे.पु. रेगे
- तर्कविद्या भाग १-२ डॉ .बी.आर.जोशी , प्रा.कुलकर्णी प्रा.मठवाले
- आधुनिक तर्कशास्त्र - प्रा.नांगरे, डॉ.चोगुले, प्रा. फरतारे (शिवाजी विद्यापीठ , कोल्हापूर)

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
To be implemented from June – 2019

Semester IV

Alternative Course (A). Modern Logic (I.D.S.)

Predicate / Quantificational Logic and Set Theory

Objective - (Advance introduction to western logical theories & Rules.)

1) Quantificational Logic :

- A) Individual Constants and Variables
- B) Types and Uses of Quantifiers
- C) Singular and General Propositions
- D) Symbolization of Propositions
- E) Free and Bound Variables

2) Rules of Quantification (Preliminary Version)

- 1. U. I. (Rules of universal Instantiation)
- 2. E. I. (Rules of Existential Instantiation)
- 3. U. G. (Rules of universal Generalization)
- 4. E. G. (Rules of Existential Generalization)

3) Proofs of Arguments

- A) Rule of Quantifier Negation
- B) Proofs of Arguments Involving Quantifiers

4) Venn Diagrams

- A) Testing of Syllogisms by Venn Diagrams
- B) Set Theory
 - 1. Definition, Set member relation
 - 2. Types of Sets : sub set, Universal set, Intersection set and Union set.

**मराठी रूपांतर
विधेय/ संख्यापनीय तर्कशास्त्र आणि संच उपपत्ती**

१. संख्यापनीय तर्कशास्त्र
 - अ) व्यक्तीअचरे व चरे
 - ब) संख्यापकांचे प्रकारआणि उपयोग
 - क) एकवाची आणि सामान्यवाची विधाने
 - ड) विधानांचे चिन्हीकरण
 - ई) मुक्त आणि बद्ध चरे.
२. संख्यापनाचे नियम (प्राथमिक भाग)
 - १) वैश्विक उदाहरणीकरण
 - २) अस्तीत्ववाची उदाहरणीकरण
 - ३) वैश्वीक सामान्यीकरण
 - ४) अस्तित्ववाची सामान्यीकरण
३. युक्तीवादांची सिध्दता
 - अ) संख्यापक विरोधांचा नियम
 - ब) संख्यापकांनी/ संखीकारकीय युक्तिवादांची सिध्दता
४. व्हेन आकृती
 - अ) व्हेन आकृतीच्या साहयाने संविधानांची युक्तता तपासणे
 - ब) संच उपपत्ती
 १. व्याख्या, संच सदस्य संबंध
 २. संचाचं प्रकार - उपसंच, विश्व संच, छेद संच आणि युती संच

Book Recommended

- Symbolic Logic (4th ed.) I. M. Copi
- Formal Logic : Scope and Limits Jeffery
- आकारिक तर्कशास्त्र - मे.पु.रेगे
- तर्कविद्या भाग १-२ डॉ .बी.आर.जोशी , प्रा.कुलकर्णी प्रा.मठवाले
- आधुनिक तर्कशास्त्र - प्रा.नांगरे, डॉ.चौगुले, प्रा. फरतारे (शिवाजी विद्यापीठ , कोल्हापूर)
- Introduction to Logic (Chapter from 9-11) patric supper.

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
To be implemented from June – 2019
Semester III
Alternative Course (B). Traditional Logic (I.D.S.)
Deductive Logic

1) Nature and scope of Logic:

- A) Kinds of Knowledge , Defination and Nature of Logic
- B) Deductive and Inductive Inference
- C) Proposition ,Term, Laws of thought

2) Classification of Propositions

- A) Categorical Proposition
- B) Conditional Proposition
- C) Distribution of Terms of A. E. I. O. Propositions

3) Immediate Inference:

- A) Opposition of propositions
- B) Eduction – Conversion and obversion

4) Mediate Inference

- A) Categorical syllogism – Nature, General Rules, Figures and moods
- B) Mixed Hypothetical Syllogism – Rules, Kinds and fallacies

**मराठी रूपांतर
पारंपारीक तर्कशास्त्र
सेमिस्टर - ३
निगामी तर्कशास्त्र**

१. तर्कशास्त्र स्वरुप व व्याप्ती
 - अ) तर्कशास्त्र व्याख्या व स्वरुप
 - क) निगामी व विगामी अनुमान
 - क) विधान,पदे- विरोधी व प्याघाती पदे
२. विधानांचे वर्गीकरण
 - अ) निरुपाधिक विधान
 - ब) सोपाधिक विधान
 - क) पदांची व्याप्ती (A,E,I,O संदर्भात)
३. अप्यवहित अनुमान
 - अ) विधान - प्रतियोग
 - ब) उत्कर्षण - परिवर्तन आणि प्रतित्वर्तन
४. व्यवहित अनुमान
 - अ) केवल (निरुपाधिक) संविधान - स्वरुप ,नियम, आकृती, व प्रकृती
 - ब) मिश्र सापेक्ष संविधान - नियम,प्रकार, दोष

Book For Reading

- तर्कशास्त्र : श्रीनिवास दिक्षीत
- तर्कविद्या भाग १ व २ डॉ . बी.आर. जोशी
- Tex of Logic by wolf, George

Book For Reference

- तर्कशास्त्राची मुलतत्त्वे : वाडेकर दे.द.
- सुलभ तर्कशास्त्र: प्रा.मुकुंद कदम
- An Introduction to Logic and Scientific method – Cohen and Naggel
- पारंपारिक तर्कशास्त्र - नांगरे, फडतारे,चौगुले,हिरवे, वाघमोडे

Shivaji University, Kolhapur
Revised Syllabus for B. A. – II Philosophy
To be implemented from June – 2019

Semester IV

Alternative Course (B). Traditional Logic (I.D.S.)

Inductive Logic

Objective – Introduction to Traditional logic and some theories

1) Nature and kinds of Inductive Inference :

- A) Simple Enumeration
- B) Analogy
- C) Scientific Induction

2) Grounds of Induction

- A) Principles of causality and Uniformity of Nature
- B) Observation – Characteristics, fallacies
- C) Experiment – Nature, Merits and Demerits

3) Hypothesis

- A) Definition , Nature and importance of Hypothesis
- B) Conditions of valid Hypothesis
- C) Verification and Proof of Hypothesis

4) Laws of Nature and Explanation

- A) Meaning and Types of Laws and Principles
- B) Laws of Nature
- C) Scientific Explanation – Kinds of scientific explanation

**मराठी रूपांतर
पारंपारीक तर्कशास्त्र
विगामी तर्कशास्त्र**

१. विगामी अनुमानाचे स्वरूप व प्रकार
 - अ) केवळ गणन
 - ब) साम्यानुमान
 - क) शास्त्रीय विगमन
२. विगमनाची आधार तत्वे
 - अ) कार्यकारणभाव व निसर्ग समरुपतेचे तत्व
 - ब) निरीक्षण - वैशिष्टे व दोष
 - क) प्रयोग - स्वरूप, फायदे व तोटे
३. अभ्युपगम (सिध्दांत कल्पना)
 - अ) अभ्युपगमाची व्याख्या , स्वरूप आणि महत्व
 - ब) युक्त अभ्युपगमाच्या अटी
 - क) अभ्युपगमाची प्रचिती व सिध्दता
४. निसर्ग नियम व उपपादन
 - अ) नियमाचा अर्थ , प्रकार आणि तत्वे
 - ब) निसर्ग नियमांचे प्रकार
 - क) वैज्ञानिक उपपादन - वैज्ञानिक उपपादनाचे प्रकार

Books for Reading

- तर्कशास्त्र आणि वैज्ञानिक पध्दती : काळे, कावळे, हुल्याळकर
- वैज्ञानिक पध्दती : ज.रा. दाभोळे
- An Introduction to Logic and scientific Method – Cohen & Naggel

Books for Reference

- पारंपारिक तर्कशास्त्र आणि वैज्ञानिक पध्दती - नांगरे, हिरवे, फडतारे, चौगुले, वाघमोडे
- तर्कशास्त्र : आर.ए. शिंदे, ए.ए. शिंदे, ए.ए. शिंदे

SHIVAJI UNIVERSITY, KOLHAPUR.



**Accredited By NAAC with 'A' Grade
Revised Syllabus For
B.A. Part-III**

Psychology

**Syllabus to be implemented from
June, 2020 onwards.**

Shivaji University, Kolhapur
New/Revised Syllabus (CBCS)
For
Bachelor of Arts
(B.A. Part- III)
Semester –V
Paper- VII to XI

1. **TITLE: Subject Psychology**
Optional under the Faculty of Humanities
2. **YEAR OF IMPLEMENTATION:** - New/Revised Syllabus (CBCS) will be implemented from June, 2020 onwards.
3. **PREAMBLE:-**
The Board of Studies should briefly mention foundation, core and applied components of the course/paper. The student should get into the prime objectives and expected level of study with required outcome in terms of basic and advance knowledge at examination level.
4. **GENERAL OBJECTIVES OF THE COURSE/ PAPER/: (As applicable to the Degree /Subject- Paper concerned)**
 - 1) To make students familiar with the field of cognitive psychology.
 - 2) To make aware students with the field of Cross cultural psychology.
 - 3) To make students familiar with the various psychological disorders.
 - 4) To acquaint the students with Current Trends in Psychology.
 - 5) To make students familiar with experiments and statistical methods.
5. **DURATION**
 - The course shall be a full time course.
 - The duration of course shall be of Three years.
6. **PATTERN:-**
Pattern of Examination will be Semester.
7. **FEE STRUCTURE: - (as applicable to regular/self supporting course) As per Government / University rules/norms.**
8. **ELIGIBILITY FOR ADMISSION:-**
As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

9. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (As applicable to the course/programme concerned.)

10. INTERNAL ASSESSMENT

Per paper there will be internal assessment for ten marks. Each student has to submit seminar/ research paper/ case study / field visit report/ survey report/ pannel discussion / Review of books, movies, websites etc.

11. STRUCTURE OF COURSE:

(Note –The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

THIRD YEAR SEMESTER V (NO.OF PAPERS 05)

Sr. No.	Course	Course Code	Theory Marks	Practical Marks	Internal Marks	Total Marks
1	Cognitive Psychology	DSE – E –86	40	--	10	50
2	Cross Cultural Psychology	DSE – E –87	40	--	10	50
3	Psychopathology	DSE – E –88	40	--	10	50
4	Current Trends in Psychology	DSE – E –89	40	--	10	50
5	Practical: Experiments	DSE – E –90	--	40	10	50
Total			160	40	50	250

12. SCHEME OF TEACHING AND EXAMINATION:-

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

THIRD YEAR / SEMESTER – V Scheme of Teaching and Examination

Sr. No.	Course	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)			
		L	T	P	Total	Theory	Practical	Term Work	Total
1	Cognitive Psychology	4			4	40	---	10	50
2	Cross cultural Psychology	4			4	40	---	10	50
3	Psychopathology	4			4	40	---	10	50
4	Current Trends in Psychology	4			4	40	---	10	50
5	Practical: Experiments	-		8*	8*	--	40	10	50
Total		16	-	8*	24	160	40	50	250

*Two practical of four periods each per week per batch consisting of 10 students.

SCHEME OF EXAMINATION:-

- The examination shall be conducted at the end of each term.
- The Theory/Practical paper shall carry 40 marks.
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 40 marks.
- Question Paper of Theory will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

STANDARD OF PASSING:-

As Prescribed under rules & regulation for each degree/ programme.

NATURE OF QUESTION PAPER AND SCHEME OF MARKING

(Theory):- Total Marks: 40

Que.1. Multiple Choice Questions	5 marks
Que.2. Short Notes (Any three out of five)	15 marks
Que.3. A) Essay Type Questions	10 marks
Or	
B) Essay Type Questions	
Que.4. A) Essay Type Questions	10 marks
Or	
B) Essay Type Questions	

EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Old Course	New Course
Cognitive Psychology	Introduction to Cognitive Psychology
Social Psychology	Cross cultural Psychology
Psychopathology	Introduction to Psychopathology
Educational Psychology	Current Trends in Psychology
Practical: Experiments	Practical: Experiments

**REVISED SYLLABUS FOR
B.A. (Part - III)
Choice Based Credit System
(Introduced from June, 2020 onwards)
SEMESTER-V Course Code: DSE – E –86**

(i) Paper VII

(ii) Title of Paper : **Introduction to Cognitive Psychology**

(iii) Learning Objectives: This paper has four main learning objectives. Upon successful completion of the course students should:

1. Gain an understanding of key concepts and research techniques in cognitive psychology.
2. Gain an understanding of the basic processes of sensation attention and perception.
3. Gain an understanding of the memory processes.
4. Be able to broadening the horizons of cognitive psychology.

(iv) Module	No. of Credits
Module 1: Approaches to Human Cognition	01
Module 2: Visual Perception and Attention	01
Module 3: Memory	01
Module 4: Broadening Horizons	01

(v) Recommended Reading:

a) Basic Reading:

Eysenck, M., & Keane, M. (2015). *Cognitive Psychology A Student's Handbook* (7th Ed.). New York: Psychology Press, (Taylor and Francis)

b) References:

Galotti, Kathleen M. (1999). "Cognitive Psychology In and Out of the Laboratory", Second Edition, New York: Books / Cole, Wadsworth. (3rd Reprint, 2004).

SHIVAJI UNIVERSITY, KOLHAPUR

B.A. (Part - III)

Choice Based Credit System

(Introduced from June, 2020 onwards)

SEMESTER-V Course Code: DSE – E –86

PAPER -VII: INTRODUCTION TO COGNITIVE PSYCHOLOGY

Module 1: Approaches to Human Cognition

Introduction

Cognitive Psychology and Cognitive Neuropsychology

The Cognitive Neuroscience: The Brain in Action

Computational Cognitive Science

Comparison of Major Approaches

Module 2: Visual Perception and Attention

Basic Process in Visual Perception

a) Vision and the Brain

b) Two Visual Systems: Perception and Actions

c) Depth Perception

Object and Face Recognition

a) Pattern Recognition

b) Perceptual Organization

c) Approaches to Object Recognition

Perception Motion and Action

a) Direct Perception

b) Perception of Human Motion

c) Change Blindness

Attention and Performance

a) Focused Auditory Attention

b) Focused Visual Attention

c) Divided Attention: Dual Task Performance

Module 3: Memory

Learning Memory

a) Architecture of Memory

b) Working Memory and Working Memory Capacity

c) Levels of Processing and Learning through Retrieval

Long Term Memory System

a) Declarative Memory and Non-declarative Memory

b) Episodic Memory and Semantic Memory

Everyday Memory

- a) Autobiographical Memory: Introduction
- b) Memories across the Lifetime
- c) Theoretical Approaches to Autobiographical Memory
- d) Eyewitness Testimony and Enhancing Eyewitness Memory

Module 4: Broadening Horizons

Cognition and Emotions

- a) Appraisal Theories
- b) Emotion Regulation
- c) Affect and Cognition: Attention and Memory
- d) Cognitive Bias Modification

Consciousness

- a) Functions of Consciousness

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October, 2020 and April, 2021 for the benefit of repeater students.)

SHIVAJI UNIVERSITY, KOLHAPUR

B.A. (PART- III)

Choice Based Credit System

(Implemented from June, 2020 Onwards)

Semester – V Course Code: DSE – E –87

i. Paper VIII

ii. Title of paper : CROSS-CULTURAL PSYCHOLOGY

iii. Specific Objectives :

1. To acquaint students with emerging field of Cross-Cultural Psychology
2. To make students aware of global v/s relativistic approaches to study human behavior
3. To sensitize students recognize cultural aspects of individual development and socialization
4. To understand socio-cultural influences in development of abnormality and its treatment
5. To introduce the importance of multiculturalism in globalized world
6. To enhance understanding of indigenous psychologies

iv. Module No. of credits

Module- 1: Introduction to Cross-cultural Psychology and key concepts	01
Module- 2: Ethics, Emics, Ethnocentrism and Indigenous Psychology	01
Module- 3: Culture and Intelligence, Prejudice and Parental Practices	01
Module- 4: Culture and Abnormality	01

v. Recommended reading

a) Basic Reading:

Stevenson, Andrew (2010): Cultural Issues in Psychology: A Student's Handbook; Routledge Publication, Taylor and Francis Group (Psychology Press), USA; First edition; 2010 (ISBN: 978-0-415-42922-1; ISBN: 978-0-415-42923-8)

b) References:

Bruegelmans S. M., Fons A. C., Van De Vijver J. R. (2011). Fundamental Questions in Cross-Cultural Psychology; Cambridge University Press; 2011 (ISBN: 9780521757515, 0521757517)

Shirayev E. and Levy D. (2013). Cross-Cultural Psychology: Critical thinking and contemporary applications; Routledge Pub., USA; Fifth edition; 2013 (ISBN: 9780205253234)

SHIVAJI UNIVERSITY, KOLHAPUR

B.A. (PART- III)

Choice Based Credit System

(Implemented from June, 2020 Onwards)

Semester - V Course Code: DSE – E –87

PAPER -VIII: CROSS-CULTURAL PSYCHOLOGY

MODULE 1: Introduction to Cross-cultural Psychology and key concepts

Charles Darwin and the age-old search for cultural universals

Introducing cross-cultural psychology

Later trends: Cross-cultural psychology or cultural psychology?

What do we talk about when we talk about culture? - Dual influence,

Limitations of eco-cultural model

The dynamic process of cultural transmission

Culture and individual levels of analysis and the reliability of culture-level analyses

MODULE 2: Ethics, Emics, Ethnocentrism and Indigenous Psychology

Where is psychology?

a. Whereabouts of the written word in psychology

b. Where about of psychology's practitioners

a. Ethics, Emics and ethnocentrism in psychological research

b. Limitations of Ethic-Emic Model

a. Beyond ethnocentrism: Indigenous psychologies

b. Indigenous psychology in the developing world

Indigenous methods

a. Complimentary with mainstream

b. Limitations of indigenous psychology movement

MODULE 3: Culture and Intelligence, Prejudice and Parental Practices

Culture and intelligence

a. What is intelligence?

b. The 'nature' of intelligence: the heritability hypothesis

c. The 'nurture' of intelligence: the environmental-cultural hypothesis

- d. Can intelligence tests be culture-fair?
- e. Indigenous intelligence
- f. Everyday intelligence and cognition

Culture and prejudice

- a. Social psychological theories on the origins of prejudice
- b. Global support for theories of prejudice: Minimal groups, Contact, Social dominance, realistic conflict

Culture and parenting practices

- a. Cultural variations in parenting: bedtime, playtime, doing as you're told
- b. Cultural commonalities in parenting
- c. Culturally diverse parental styles and ethno theories
- d. Parenting is a two-way street: the role of temperament

MODULE 4: Culture and Abnormality

- a. Culture, abnormality and psychopathology
 - b. The debate between Universalists and relativists
- a. Universalism, relativism and Schizophrenia
 - b. Universalism, relativism and culture-bound syndromes
 - C. Limitations of culture-bound syndrome research

Culture, psychotherapy and healing

- a. Factors influencing the effectiveness of psychotherapy across cultures
 - 1. Conceptual factors: ideas about health and illness
 - 2. Interpersonal factors: at the client–therapist interface
 - 3. Material factors: access to treatment
- b. Possession trance: a religious psychotherapy; therapy or pathology?
- c. Indigenous therapies from around world

Recent developments in culture and psychotherapy: Multiculturalism, globalization and healing

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October 2020 and April 2021 for the benefit of repeater students.)

Shivaji University, Kolhapur
B. A. (Part - III)
Choice Based Credit System
(Introduced From June, 2020 onwards)

Semester – V Course Code: DSE – E –88

- i) Paper No. IX**
ii) Title of Paper : INTRODUCTION TO PSYCHOPATHOLOGY
iii) Specific Objectives :

- 1) To make the students familiar with the field of Psychopathology.
- 2) To acquaint students with various perspectives of Psychopathology.
- 3) To make the students understand Anxiety and Obsessive Compulsive Disorder.
- 4) To acquaint students with Mood Disorders and Suicide.

iv) Module	No. of Credits
Module - 1: Psychopathology: An Overview	01
Module - 2: Perspectives of Psychopathology	01
Module - 3: Anxiety and Obsessive-Compulsive Disorder	01
Module - 4: Mood Disorders and Suicide	01

v) Recommended Reading:

a) Book for Study:

Butcher, J. N., Hooley, J. M. and Mineka, S. (2018). Abnormal Psychology. 17th edition, Pearson Education Inc.

b) Books for Reference:

Butcher, J. N., Hooley, J. M. and Mineka, S. (2018). Abnormal Psychology. 16th edition, Pearson Education Inc.

Carson, R. C., Butcher, J. N. and Mineka, S. (1996). Abnormal Psychology and Modern Life. 10th edition, New York: Harper Collins

Comer, R. J. (2013). Abnormal Psychology. 8th edition, New York: worth Publishers.

Sarason, I. G. And Sarason, B. R. (2009). Abnormal Psychology: The Problem of Maladaptive Behaviour. 11th edition, Delhi : Pearson Education (Singapore) Pvt. Ltd., (First Impression – 2007)

Shivaji University, Kolhapur
B. A. (Part - III)
Choice Based Credit System
(Introduced From June, 2020 onwards)

PAPER- IX: INTRODUCTION TO PSYCHOPATHOLOGY
DSE – E 88

Module 1: Psychopathology: An Overview

- Indicators of Abnormality
 - A) Subjective Distress
 - B) Maladaptiveness
 - C) Statistical deviancy
 - D) Violation of the Standards of Society
 - E) Social Discomfort
 - F) Irrationality and Unpredictability
 - G) Dangerousness
- The DSM – 5 and the Definition of Mental Disorder
- Classification and Diagnosis
 - A) Advantages and Disadvantages of Classification
 - B) How can we reduce prejudicial attitudes toward people who are mentally ill
- How common are Mental Disorders
 - A) Prevalence and Incidence
 - B) Prevalence estimates for Mental Disorders
 - C) The Global burden of disease
 - D) Treatment
 - E) Mental Health Professionals

Module 2: Perspectives of Psychopathology

- The Biological Perspective
 - A) Genetic Vulnerabilities
 - B) Brain Dysfunction and Neural Plasticity
 - C) Imbalances of Neurotransmitters and Hormones
 - D) Temperament
- The Freud's Psychoanalytic Perspective
 - A) The Structure of Personality
 - B) Defense Mechanisms
 - C) Psychosexual Stages of Development
 - D) The Oedipus complex and the Electra complex
- The Behavioural Perspective
 - A) Classical Conditioning
 - B) Operant Conditioning

- C) Generalization and Discrimination
- D) Observational Learning
- The Social Perspective
 - A) Early Deprivation or Trauma
 - B) Problems in Parenting Style
 - C) Marital Discord and Divorce
 - D) Low Socio-economic Status and Unemployment

Module 3: Anxiety and Obsessive-Compulsive Disorder

Anxiety Disorders

- A) Specific Phobia
 - i) Prevalence, Age of Onset and Gender Differences
 - ii) Causal Factors
 - iii) Treatments
- B) Social Phobia
 - i) Prevalence, Age of Onset and Gender Differences
 - ii) Causal Factors
 - iii) Treatments
- C) Agoraphobia (Panic Disorder)
 - i) Prevalence, Age of Onset and Gender Differences
 - ii) Causal Factors
 - iii) Treatments
- D) Generalized Anxiety Disorder
 - i) Prevalence, Age of Onset and Gender Differences
 - ii) Causal Factors
 - iii) Treatments

Obsessive-Compulsive Related Disorder

- A) Obsessive-Compulsive Disorder
 - i) Prevalence, Age of Onset and Gender Differences
 - ii) Causal Factors
 - iii) Treatments
- B) Body Dysmorphic Disorder
 - i) Prevalence, Age of Onset and Gender Differences
 - ii) Causal Factors
 - iii) Treatments

Module 4: Mood Disorders and Suicide

- Unipolar Depressive Disorders
 - A) Major Depressive Disorder
 - B) Persistent Depressive Disorder
 - C) Causal Factors
 - i) Biological Causal Factors
 - ii) Psychological Causal Factors

- Bipolar and Related Disorders
 - A) Cyclothymic Disorder
 - B) Bipolar Disorders (I and II)
 - C) Causal Factors
 - i) Biological Causal Factors
 - ii) Psychological Causal Factors
- Treatments of Mood Disorders
 - A) Pharmacotherapy
 - B) Alternative Biological Treatments
 - C) Psychotherapy
- Suicide
 - A) Psychological Disorder
 - B) Factors Associated with Suicide
 - C) Theoretical Models of Suicidal Behaviour
 - D) Suicide Prevention and Intervention

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October 2020 and April 2021 for the benefit of repeater students.)

SHIVAJI UNIVERSITY, KOLHAPUR

B.A. (PART III)

(Implemented From June, 2020 Onwards)

SEMESTER- V Course Code: DSE – E –89

i. Paper X

ii. Title of paper : CURRENT TRENDS IN PSYCHOLOGY

iii. Specific Objectives :

1. To acquaint students with emerging new trends in Psychology
2. To make students aware of health risk behaviour and their causes
3. To sensitize students recognize developmental factors related to criminal behaviour
4. To understand psychological, family and social influences in development of criminality
5. To introduce work carried out in the field of cyber psychology
6. To learn about psychological processes behind digital Usage, cyber bullying, gaming and gambling
7. To make students aware of online crimes such as scams, fraud, illegal downloads etc.

iv. Module	No. of credits
Module- 1: Health Psychology	01
Module- 2: Criminal Psychology	01
Module- 3: Cyber Psychology - I	01
Module- 4: Cyber Psychology - II:	01

v. Recommended reading

a) Basic Reading:

Bartol, Curt R. and Bartol Anne M. (2017): Criminal Behavior: A Psychological Approach; Pearson Education, Inc., US; Eleventh Edition, 2017 (ISBN-13: 978-1-292-15771-9, ISBN-10: 1-292-15771-2) **(For Module II)**

Morrison Val and Bennett Paul (2016): An Introduction to Health Psychology; Pearson Education Limited; Fourth edition, 2016 (ISBN: 978-1-292-00313-9; ISBN: 978-1-292-00314-6; ISBN: 978-1-292-12944-0) **(For Module I)**

Whitty, Monica Therese and Young, Garry (2017). Cyber Psychology: The Study of Individuals, Society and Digital Technologies; British Psychological Society and John Wiley & Sons, Ltd.; First Edition; 2017 (ISBN 9780470975626; ISBN 9781118321126) **(For Module- III and IV)**

b) References:

Connolly Irene, Palmer Marion, Barton Hannah, Kirwanitle Grainne (Ed.) (2016). An Introduction to Cyber Psychology; Routledge Pub; First Edition; 2016 (ISBN: 131758452X, 9781317584520)

Durrant, Russil (2018). An Introduction to Criminal Psychology; Routledge Taylor & Francis Pub., London; Second Edition, 2018 (ISBN: 978-1-138-65095-4; ISBN: 978-1-138-65096-1; ISBN: 978-1-315-62504-1)

Ogden J. (2012): Health Psychology - A Textbook; McGraw Hill Open University Press; Fifth edition; 2012 (ISBN 13:978 0 335 243839; ISBN 10: 0 335 243835)

SHIVAJI UNIVERSITY, KOLHAPUR
B.A. (PART III)
Choice Based Credit System
(Implemented from June, 2020 Onwards)
SEMESTER V Course Code: DSE – E –89
PAPER X: CURRENT TRENDS IN PSYCHOLOGY

MODULE 1: Health Psychology: Health-Risk Behavior

What is Health Behavior?

Smoking, Drinking and Illicit Drug Use

Unprotected Sexual Behavior

Obesity

MODULE 2: Criminal Psychology: Origins of Criminal Behavior and Developmental Risk Factors

Social Risk Factors:

- a. Peer Rejection and Association with Antisocial Peers

Parental and Family Risk Factors

- a. Parental Styles and Practices
- c. Parental Monitoring
- d. Parental Psychopathology

Psychological Risk Factors

- a. Lack of Attachment
- b. Lack of Empathy
- c. Attention Deficit Hyperactivity Disorder and ADHD - Criminal Behavior link
- d. Conduct Disorder
- e. Oppositional Defiant Disorder

MODULE 3: Cyber Psychology - I: Digital Usage, Cyber bullying, Gaming and Gambling

Children's and teens' use of digital technologies

- a. Internet usage
- b. Digital technologies: Harmful or empowering for young people?
- c. Illegal content and illegal activities

- a. Cyber bullying and cyber-harassment
 - b. Scams, Children and Teens
- a. Activism
 - b. Radicalization

Online Gaming and Gambling

- a. Internet addiction
- b. Internet Gaming addiction
- c. Aggressive video games
- d. Games for learning

MODULE 4: Cyber Psychology - II: Online Crimes (Scams, Fraud and Illegal Downloads)

- a. Phishing and Vishing
 - b. Why are people tricked by phishing?

Mass-Marketing Fraud

- a. Cognitive and Motivational Errors
- b. What type of person tends to be susceptible to Mass-Marketing Fraud (MMF)?

Stages involved in the online dating romance scam

Illegal downloads

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October, 2020 and April, 2021 for the benefit of repeater students.)

SCHEME OF PRACTICAL EXAMINATION:-

The practical examination shall be conducted at the end of each semester/term.

- The practical shall carry 40 marks.
- There shall be Two Practical's of 4 Periods each per week, per batch consisting of 10 students (Total workload for practical will be 8 periods per week, per batch).
- Practical examination incorporates experiments, and statistical problems.
- The evaluation of the performance of the students in practical shall be on the basis of Semester Examination of 40 marks.
- Experiments and statistical problems should be set for semester – V
- In the semester practical examination, the candidate has to conduct one experiment allotted to him / her and solve one statistical problem.
- The candidate has to bring his / her own subject for practical examination.

STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree / programme.

NATURE OF QUESTION PAPER

The candidate will be asked to conduct one experiment allotted to him / her and to write its full report.

The candidate in a practical batch will have to solve one statistical problem.

As a different statistical problem has to be set, separate question paper will be set for each batch of each practical.

SCHEME OF MARKING

1. Journal	: 10 Marks
2. Statistical Problem	: 10 Marks
3. Conduct	: 07 Marks
4. Report Writing	: 08 Marks
5. Oral (Experiment)	: 05 Marks

TOTAL : 40 Marks

NOTE:

1. There shall be Two Practical's of 4 Periods each per week, per batch consisting of 10 students (Total workload for practical will be 8 periods per week, per batch).
2. Six experiments should be conducted from the list given for Semester V.
3. The student has to submit a journal duly signed by the course teacher and the head of the department before practical examination.
4. During the academic year students are expected to visit any social or industrial organization such as Remand Home, Old Age Home, Special Schools, Mental Hospital, Industry, Rehabilitation & Counseling centers etc.

SHIVAJI UNIVERSITY, KOLHAPUR
REVISED SYLLABUS FOR B.A. (Part III)
(Introduced from June, 2015 onwards)
SEMESTER-V Course Code: DSE – E –90

(i) Paper **XI**

(ii) Title of Paper **: PRACTICAL-EXPERIMENTS**

(iii) Specific Objectives:

- 1) To make the students familiar with Psychological experiments.
- 2) To impart the knowledge and skills for conducting experiments and writing their reports.
- 3) To make the students familiar with some statistical methods.
- 4) To provide Practical experience through IT Soft ware's (e.g. Coglab etc.)

(iv) Recommended Reading:

a) Basic Reading:

- Anastasi, Anne and Urbina, Susana, (1997). Psychological Testing, Seventh Edition(2003), New Delhi: Prentice-Hall of India Pvt. Ltd.,
Kothurkar, and Vanarase (1986). Experimental Psychology: A Systematic Introduction, New Delhi: Wiley Eastern Ltd.
Mangal, S.K. (2010). Statistics in Psychology and Education, 2nd edition, New Delhi: Prentice-Hall of India Pvt. Ltd.,
Postman, L. and Egan J. P. (1949). Experimental Psychology: An Introduction, New Delhi: Kalyani Publishers.

b) References:

- Barve, B.N. (2007). Shaikshanik Manasashastriy Sankhyashastra, Nagpur: Vidya Prakashan
Desai, Bharat ani Abhyankar, Shobhana (2001): Manasashastriya Mapana, Pune: Narendra Prakashan.
Narake, H.J. ani Barve, B. (1999). Manomapana va Sankhyashastra, Aurangabad: Prerana Agencies.
Vanarase, S.; Gogate, S. ani Vanarase, Shyamala (1976). Manasashastriya Prayog Pune: Vinus Prakashan.

SHIVAJI UNIVERSITY, KOLHAPUR
B. A. PART – III
(Implemented from June, 2020 onwards)
SEMESTER –V Course Code: DSE – E –90
PAPER –XI: PRACTICAL (EXPERIMENTS)

1. Span of Attention
2. Division of Attention
3. Reaction Time
4. Serial Position Effect in Learning
5. Recall and recognition
6. Effect of Meaningfulness on Learning
7. Transfer of Training
8. Habit Interference
9. Massed Vs. Distributed Method of Learning
10. Short Term Memory
- 11 Problem Solving
12. Maze Learning
13. Change Blindness
14. Depth Perception

• Statistical Problems

Measures of Central Tendency

- A) Mean (Short method)
- B) Standard Deviation

Shivaji University, Kolhapur
New/Revised Syllabus CBCS)
For
Bachelor of Arts
(B.A. Part - III)
Paper- XII to XVI
Sem.VI

1. TITLE: Subject Psychology

Optional under the Faculty of Humanities

2. YEAR OF IMPLEMENTATION: - New/Revised Syllabus will be implemented from June, 2020 onwards.

3. PREAMBLE:-

The Board of Studies should briefly mention foundation, core and applied components of the course/paper. The student should get into the prime objectives and expected level of study with required outcome in terms of basic and advance knowledge at examination level.

4. GENERAL OBJECTIVES OF THE COURSE/ PAPER/: (As applicable to the Degree /Subject- Paper concerned)

- 1) To make students familiar with the field of Psychological Testing.
- 2) To make aware students with the field of Counseling Psychology.
- 3) To make students familiar with the various Developmental Psychology.
- 4) To acquaint the students with Psychology of Organizational Behavior.
- 5) To make students familiar with Psychological tests and statistical methods.

5. DURATION

- **The course shall be a full time course.**
- **The duration of course shall be of Three years.**

6. PATTERN:-

Pattern of Examination will be Semester.

7. FEE STRUCTURE: - (as applicable to regular/self supporting course) As per Government / University rules/norms.

8. ELIGIBILITY FOR ADMISSION:-

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

9. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (As applicable to the course/programme concerned.)

10. INTERNAL ASSESSMENT

Per paper there will be internal assessment for ten marks. Each student has to submit seminar/ research paper/ case study / field visit report/ survey report/ pannel discussion / Review of books, movies, websites etc.

11. STRUCTURE OF COURSE-

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.

THIRD YEAR SEMESTER VI (NO.OF PAPERS 05)

Sr. No.	Course	Course Code	Theory Marks	Practical Marks	Internal Marks	Total Marks
1	Psychological Testing	DSE – E –211	40	--	10	50
2	Counselling Psychology	DSE – E –212	40	--	10	50
3	Developmental Psychology	DSE – E –213	40	--	10	50
4	Psychology of Orgazational Behaviour	DSE – E –214	40	--	10	50
5	Practical: Psychological Tests	DSE – E –215	--	40	10	50
Total			160	40	50	250

12. SCHEME OF TEACHING AND EXAMINATION:-

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

THIRD YEAR / SEMESTER – VI Scheme of Teaching and Examination

Sr. No.	Course	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)			
		L	T	P	Total	Theory	Practical	Term Work	Total
1	Psychological Testing	4			4	40	--	10	50
2	Counselling Psychology	4			4	40	--	10	50
3	Developmental Psychology	4			4	40	--	10	50
4	Psychology of Organizational Behaviour	4			4	40	--	10	50
5	Practical: Psychological Tests	-		8*	8*	---	40	10	50
Total		16	-	8*	24	160	40	50	250

*Two practical of four periods each per week per batch consisting of 10 students.

SCHEME OF EXAMINATION:-

- The examination shall be conducted at the end of each term.
- The Theory/Practical paper shall carry 40 marks.
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 40 marks.
- Question Paper of Theory will be set in the view of the /in accordance with the entire Syllabus and preferably covering each module of syllabi.

STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree / programme.

NATURE OF QUESTION PAPER AND SCHEME OF MARKING (Theory):

Que.1. Multiple Choice Questions	5 marks
Que.2. Short Notes (Any three out of five)	15 marks
Que.3. A) Essay Type Questions	10 marks
Or	
B) Essay Type Questions	
Que.4. A) Essay Type Questions	10 marks
Or	
B) Essay Type Questions	

EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Old Course	New Course
Psychological Testing	Psychological Testing
Counselling Psychology	Counselling Psychology
Personal Psychology	Developmental Psychology
Psychology of Organizational Behaviour	Psychology of Organizational Behaviour
Practical: Psychological Tests	Practical: Psychological Tests

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October, 2020 and April, 2021 for the benefit of repeater students.)

Shivaji University, Kolhapur
B.A. (III)
Choice Based Credit System
(Introduced from June, 2020 onwards)

Semester-VI Course Code: DSE – E –211

i) Paper

XII

ii) Title of the paper

: PSYCHOLOGICAL TESTING

iii) Specific Objectives :

- 1) To make the students familiar with the field of psychological testing in general.
- 2) To acquaint the students with the nature, types, applications, reliability and
- 3) To make the students to understand the nature and other description of personality tests.

iv) Module

No. of Credits

Module 1: The nature and uses of psychological testing

01

Module 2: Reliability and Validity: Basic concepts

01

Module 3: Individual tests of Intelligence and Achievement

01

Module 4: Psychological Assessment and Personality Tests

01

V. Recommended reading

a) Book for Study:

Aiken, Lewis, R. (2009). Psychological Tests and Assessment. 12th Ed. Pearson Education.

Anastasi, Anne & Urbina, Susana (1997). Psychological Testing, Seventh Edition, New Delhi: Prentice- Hall of India Pvt. Ltd., (2003)

b) Books for Reference:

Gregory, Robert, J. (2014). Psychological Testing: History, Principles and Applications. Sixth Ed., Pearson Education.

Kaplan, Robert, M. & Saccuzzo, Dennis, P. (2005). Psychological Testing: Principles, Applications and Issues. 6th Ed., Canada: Wordsworth Cengage Learning.

Ronald, J. & Swerdik, Mark, E. (2010). Psychological Assessment: An Introduction to Tests and Measurement. 7th Ed., Special Indian Edition, New Delhi: McGraw Hill Education Pvt. Ltd.

Barve, B.N. & Narake, H.J. (2008). Manomapan, Nagpur: Vidya Prakashana.

Desai, B. & Abhyankar, Shobhana (2007). Manasashatriya Mapan, Pune: Narendra Prakashana.

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PAPER- XII: Psychological Testing
DSE – E - 211

Module 1: The nature and uses of psychological testing

Definition of a test

Types of tests

Uses of testing

Influence of the Examiner

Module 2: Reliability and Validity: Basic concepts

Reliability

a) Meaning of Reliability

b) Types of Reliability

i. Test -Retest Reliability

ii. Alternate- Form Reliability

iii. Split-Half Reliability

iv. Scorer Reliability

Reliability of speeded test

Validity

a) Meaning of validity

b) Content-description Procedures

c) Criterion- Prediction Procedures

d) Construct- Identification Procedures

Module 3: Individual tests of Intelligence and Achievement

The Wechsler scales of Intelligence

The Wechsler subtests: Description and analysis

Stanford-Binet intelligence scales (SBIT): Fifth edition

Individual tests of Achievement

Module 4: Psychological Assessment and Personality tests

A) Personality tests-Expression Techniques

- i) The draw- A - person test
- ii) The house- tree - person test (H-T-P)

B) Projective Techniques

- i) Rorchach Ink Blot Test
- ii) Thematic Apperception Test

Assessment of normality

A) Sixteen Personality Factor Questionnaire (16 PF)

B) NEO personality inventory - revised (NEO-PI-R)

Measures of emotional Intelligence

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Choice Based Credit System
(Introduced from June, 2020 onwards)

Semester-VI Course Code: DSE – E –212

(i) Paper: XIII

(ii) Title of the paper: Counselling Psychology

(iii) Specific Objectives:

1. To make the students familiar with the field of Counselling Psychology.
2. To acquaint students with the applications of Counselling Psychology in the fields of Career, School, College Counselling and student-life services.

(iv) Module	No. of Credits
Module 1: Introduction and Professional Aspects of Counselling Psychology	01
Module 2: Career Counselling	01
Module 3: Professional School Counselling	01
Module 4: College Counselling and Student- life Services	01

V. Recommended reading

a) Book for Study:

Gladding, S.T.,and Batra Promila (2018). Counselling : A Comprehensive Profession. Eighth Edition. Third Impression, Pearson Education Inc.

(vi) Books for Reference:

David A. (2009). Guidance and Counselling. New Delhi: Commonwealth Publishers,
Gladding, S.T.(2014). Counseling : A Comprehensive Profession. Seventh Edition.
First Impression, Pearson Education Inc.

Kinra Asha, (2008). Guidance and Counselling. Pearson India Education Services
Pvt.Ltd.

Rao, N. (2007). Counselling and Guidance. New Delhi: Tata McGraw- Hill Publishing
Company Limited,.

Reeves Andrew, (2013) An Introduction to Counselling and Psychotherapy. New
Delhi: SAGE Publications India Pvt. Ltd.

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B.A. (III)
Choice Based Credit System
(Introduced from June, 2020 onwards)

PAPER- XIII: COUNSELLING PSYCHOLOGY

DSE – E - 212

MODULE 1. Introduction and Professional Aspects of Counselling

Introduction

- A. Definition of Counselling
- B. Guidance
- C. Psychotherapy

Current Trends in 21st Century

- A. Dealing with Violence, Trauma and Crises
- B. The Challenge of Managed Care
- C. Promoting Wellness
- D. Concern for Social Justice and Advocacy
- E. Greater Emphasis on Technology

Professional Aspects of Counselling

- A. Inspection
- B. Registration
- C. Certification
- D. Licensing

MODULE 2. Career Counseling

The Importance and Scope of Career Counselling

- A. Important Aspects of Career Counselling
 - B. The Scope of Career Counseling and Careers
- Career Development Theories and Counselling

- A. Trait-and –Factor Theory
- B. Developmental Theories
- C. Social-Cognitive Career Theory

Career Counseling with Diverse Populations

- A. Career Counselling with Children
- B. Career Counselling with Adolescents
- C. Career Counselling with College Students

MODULE 3. Professional School Counselling

The ASCA Model

- A. The ASCA Model Areas
- B. School Counselors at Various Levels

Elementary School Counselling

- A. Emphases and Roles
- B. Activities
- C. Prevention

Middle School Counselling

- A. Emphases and Roles
- B. Activities
- C. Prevention

Secondary School Counselling

- A. Emphases and Roles
- B. Activities
- C. Prevention

MODULE: 4 College Counselling and Student-Life Services

The Beginning of Student-Life-Services and College Counselling

The Theoretical Bases and Professional Preparation for Working With
College Students

- A. Theoretical Bases
- B. Professional Preparation

College Counseling

- A. Emphases and Roles
- B. Activities

Counselling and Student-Life Services with First-Year, Graduate Students
And Nontraditional Students

- A. First-Year Students
- B. Graduate Students
- C. Older Students
- D. First-Generation Students
- E. Student Athletes

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October, 2020 and April, 2021 for the benefit of repeater students.)

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Semester-VI Course Code: DSE – E –213

- i. Paper XIV**
- ii. Title of paper : DEVELOPMENTAL PSYCHOLOGY**

iii. Specific objectives:

1. To acquaint the students with processes of change and stability through about the life span development.
2. To introduce students the process of birth.
3. To acquaint the students with emotions, self - development of Infancy and intellectual development of childhood.
4. To recognize students with Identity, relationship and problems of Adolescents.
5. To introduce students with career, health and personality development of Adulthood.

iv. Module	No. of Credits
Module I: An Introduction to Lifespan Development	01
Module II: Infancy and Childhood	01
Module III: Adolescence	01
Module IV: Adulthood	01

V. Recommended reading

a) Book for Study:

Feldman Robert S. & Babu Nandita (2018). *Development Across the Lifespan* (8th edition) Noida (UP): Pearson India Education Services Pvt. ISBN 978-93-528-6576-5

b) Books for Reference:

Hurlock E. B. (2001). *Developmental Psychology: A Life Span Approach*, New Delhi: TMH Publishing Company Ltd.

Papalia, Diane E., and Olds Sally Wendkas (2002). *Human Development*, 7th edition, Second print, New Delhi: Tata McGraw Hill Publishing Co. Ltd.

Santrock, J. W. (2011). *Life Span Development*, Thirteenth edition, New Delhi: McGraw – Hill Education (India) Pvt. Ltd.

Borude, Kumthekar, Desai, Golvilkar (2013). *Vaikasik Manasshatra, dusariaavrutti*, Pune: Vidyarthi GruhaPrakashan.

Shivaji University, Kolhapur
B.A. (III)
Choice Based Credit System
(Introduced from June, 2020 onwards)

PAPER- XIV: DEVELOPMENTAL PSYCHOLOGY

DSE – E- 213

Module 1: An Introduction to Lifespan Development

An orientation of life span development

- A. Defining Lifespan Development
- B. The scope of the field of lifespan development

Research Methods

- A. Experiments: Determining Cause and Effect
- B. Measuring Developmental Change

Earliest Development

- A. Genes and Chromosomes: The Code of Life
- B. Multiple Births: Two- or More- for the Genetic Price of life
- C. Boy or Girl? Establishing the sex of the Child

Prenatal Growth and Change

- A. Fertilization: The moment of Conception
- B. The Stages of the Prenatal Period: The Onset of Development
- C. Pregnancy Problems

Module 2: Infancy and Childhood

Developing the Roots of Sociability

- A. Emotions in Infancy: Do Infants Experience Emotional Highs and Lows?
- B. Stranger Anxiety and Separation Anxiety: It's Only Natural
- C. Social Referencing: Feeling What Others Feel

Intellectual Development

- A. Piagetian Approaches to Cognitive Development
- B. Information Processing in Middle Childhood
- C. Vygotsky's Approach to Cognitive Development

The Developing Self

- A. Psychosocial Development in Middle Development
- B. Self-esteem: Developing a Positive – or Negative – View of the Self

Module 3: Adolescence

Identity: Asking “Who Am I?”

- A. Self –Concept and Self- Esteem
- B. Identity Formation: Changes or Crisis?
- C. Depression and Suicide : Psychological Difficulties in Adolescence

Relationships : Family and Friends

- A. Family Ties : Changing Relations with Relations
- B. Relationship with Peers : The Importance of Belonging

Dating and Sexual Behavior

- A. Dating and sexual relationships in the twenty- first century.
- B. Sexual Orientation : Heterosexuality, Homosexuality, Bisexuality, and Transsexualism

Module 4: Adulthood

Choosing a Career

- A. Career Choices, Skill Development and Government Policies in India
- B. Gender and Career Choices
- C. Why Do People Work? More Than Earning a Living

Health

- A. Wellness and Illness: The Ups and Downs of Middle Adulthood
- B. Individual Variations in Health: Socioeconomic Status and Gender Difference

Personality Development

- A. Two Perspectives on Adult Personality Development: Normative Crisis versus Life events
- B. Erikson’s Stage of Generatively versus Stagnation

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October, 2020 and April, 2021 for the benefit of repeater students.)

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Semester-VI Course Code: DSE – E –214

- (i) **Paper** **XV**
- (ii) **Title of Paper** **: Organizational Behaviour**
- (iii) **Learning Objectives:** This paper has four main learning objectives. Upon successful completion of the course students should:
1. Gain an understanding of key concepts in organizational behaviour.
 2. Gain an understanding of the idea of personality, job satisfaction and leadership.
 3. Gain an understanding of the group processes.
 4. Be able to understand the fundamental change processes of organization.
- (iv)
- | Module | No. of Credits |
|--|-----------------------|
| Module 1: Organizational Behaviour (OB) | 01 |
| Module 2: The Individual | 01 |
| Module 3: Foundations of Group Behaviour | 01 |
| Module 4: Organizational Change | 01 |
- (v) **Recommended Reading:**
Robbins, S., Timothy A., Vohra, N. (2013). *Organizational Behavior* (15th Edition). Delhi: Pearson Education, Inc.

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B.A. (III)
Choice Based Credit System
(Introduced from June, 2020 onwards)

PAPER-XV: ORGANIZATIONAL BEHAVIOR
DSE – E- 214

Module 1: Organizational Behavior (OB)

Importance of Interpersonal Skills

What managers do?

- A) Management functions and roles
- B) Management skills
- C) Effective versus successful managerial activities

Challenges and opportunities for OB

- A) Responding to Globalization
- B) Improving people skills
- C) Stimulating innovation and change
- D) Helping employees balance work-life conflicts
- E) Creating a positive work environment

Module 2: The Individual

Personality

- A) What is personality?
- B) The Myer-Briggs Type indicator
- C) The Big Five Personality Model

Attitudes and Job Satisfaction

- A) What are the major Components of Attitudes?
- B) What are the major job attitudes?
- C) Measuring Job Satisfaction, How Satisfied are people in their Jobs?
What Causes Job Satisfaction?
- D) The Impact of Satisfied and Dissatisfied Employees on the Workplace?

Leadership

- A) What is Leadership: Trait Theories?
- B) Behavioral Theories
- C) Contingency Theories.
- D) Charismatic Leadership and Transformational Leadership

Module 3: Foundations of Group Behaviour

Defining and classifying groups

Stages of Group Development: Five-Stage model

Group properties

- A) Roles and Norms

- B) Cohesiveness and Diversity
- Group Decision Making
 - A) Group versus Individual
 - B) Group Decision Making Techniques

Module 4: Organizational Change

- Forces for Change and planned change
- Resistance to change
- Approaches to manage organizational change
 - A) Lewin's three-step model
 - B) Kotter's Eight-step plan for implementing change
- Creating a culture for change
 - A) Stimulating a culture of innovation
 - B) Creating a learning organization

(Note: Question papers as per pre-revised syllabi will be set at the examination to be held in October, 2020 and April, 2021 for the benefit of repeater students.)

SCHEME OF PRACTICAL EXAMINATION:-

The practical examination shall be conducted at the end of each semester/term.

- The practical shall carry 40 marks.
- There shall be Two Practical of 4 Periods each per week, per batch consisting of 10 students (Total workload for practical will be 8 periods per week, per batch).
- Practical examination incorporates psychological tests, and statistical problems.
- The evaluation of the performance of the students in practical shall be on the basis of Semester Examination of 40 marks.
- Psychological tests and statistical problems should be set for semester -VI
- In the semester practical examination, the candidate has to administer one psychological test allotted to him / her and solve one statistical problem for Semester-VI
- The candidate has to bring his / her own testee/subject for practical examination.

STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree / programme.

NATURE OF QUESTION PAPER

The candidate will be asked to administer one psychological test allotted to him / her and to write its full report.

The candidate in a practical batch will have to solve one statistical problem. As a different statistical problem has to be set, separate question paper will be set for each batch of each practical.

SCHEME OF MARKING

1. Journal	:	10 Marks
2. Statistical Problem	:	10 Marks
3. Conduct	:	07 Marks
4. Report Writing	:	08 Marks
5. Oral (Tests)	:	05 Marks

TOTAL	:	40 Marks

NOTE:

1. There shall be Two Practical of 4 Periods each per week, per batch consisting of 10 students (Total workload for practical will be 8 periods per week, per batch).
2. Six psychological tests should be conducted from the list given for Semester –VI.
3. The student has to submit a journal duly signed by the course teacher and the head of the department before practical examination.
4. During the academic year students are expected to visit any social or industrial organization such as Remand Home, Old Age Home, Special Schools, Mental Hospital, Industry, Rehabilitation & Counseling centers etc.

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B.A. (Part III)
Choice Based Credit System
(Introduced from June, 2020 onwards)

SEMESTER-VI Course Code: DSE – E –215

PRACTICAL: PSYCHOLOGICAL TESTS

- (i) **Paper** **XVI**
- (ii) **Title of Paper** : **PRACTICAL- PSYCHOLOGICAL TESTS**
- (iii) **Specific Objectives** :
1. To make the students familiar with Psychological tests.
 2. To impart the knowledge and skills for administering psychological tests and writing their reports.
 3. To make the students familiar with some statistical methods.
 4. To provide Psychological experience Testing through IT Software (e.g. Coglab etc.)

(vi) **Recommended Reading:**

a) Basic Reading:

Anastasi, Anne and Urbina, Susana, (1997). Psychological Testing, Seventh Edition, New Delhi: Prentice-Hall of India Pvt. Ltd.

Garrette, H. E and Woodworth, R. S., (1981). Statistics in Psychology and Education, Tenth Edition Reprint, Bombay: Vakils and Siman Ltd.,

b) References:

Barlinge ani Latkar (2000). Upayojit Manasashatra, Nagpur: Shri Sainath Prakashan,

Barve, B.N. (2007). Shaikshani Manasashastriy Sankhyashastra, Nagpur: Vidya Prakashan

Desai, B. and Abhyankar, S.C. (2001). Prarayogik Manasashastra ani Samshodhan Paddhati. Pune: Narendra Prakashan.

Desai, Bharat ani Abhyankar, Shobhana (2001). Manasashastriya Mapana, Pune: Narendra Prakashan.

Narake, Himmat ani Barve, Bapurao (1999). Manomapan va Sankhyashastra, Aurangabad: Prerana Agencies.

SHIVAJI UNIVERSITY, KOLHAPUR
B.A. (Part III)
Choice Based Credit System
(Introduced from June, 2020 onwards)

PAPER – XVI: PRACTICAL (PSYCHOLOGICAL TESTS)
DSE – E - 215

1. Interest Inventory
2. Attitude Scale
3. Anxiety Scale
4. Personality Inventory
5. Adjustment Inventory
6. Self-concept Test
7. Test of Intelligence
8. Achievement Test
9. Leadership Scale
10. Secularism Scale
11. Locus of Control Scale
12. Stress Scale
13. Aggression Scale
14. Superstition Scale
15. Women Freedom Scale
16. Attitude toward Sex
17. Social Change Scale
18. Stress Management Scale

• Statistical Problems

A) Pearson's product moment correlation (Calculations from actual scores)

B) Independent 't' test

(Write the calculated values are significant at the 0.01 / 0.05 level or not)

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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

Geography

(Syllabus to be implemented from June, 2018 onwards.)

**Course Structure for B.A. Geography
Three Years (6 Semester) Programme**

B.A. I

Sr. No.	Semester	Name of the Course	Category
1	Semester I	Physical Geography	Geography DSE - 1
2	Semester – II	Human Geography	Geography DSE - 2

B.A. II

Sr. No.	Semester	Name of the Course	Category
1	Semester III	Soil Geography	Geography DSE - 3
2	Semester – III	Environmental Geography	Geography DSE - 4
3	Semester- IV	Oceanography	Geography DSE - 5
4	Semester- IV	Geography of Maharashtra	Geography DSE - 6

B.A. III

Sr. No.	Semester	Name of the Course	Category
1	Semester V	Geography of India	Geography DSE - 7
2	Semester – V	Economic Geography	Geography DSE - 8
3	Semester- V	Research Methodology in Geography	Geography DSE - 9
4	Semester- VI	Disaster Management	Geography DSE - 10
5	Semester- VI	Regional Planning and Development	Geography DSE - 11
6	Semester- VI	Geography of Tourism	Geography DSE - 12
7	Semester- V & VI Practical	Map Work & Map Interpretation	Geography DSE - 13 (Practical Paper No. – I)
8	Semester- V & VI Practical	Advanced Tools and Techniques & Fieldwork	Geography DSE - 14 (Practical Paper No. – II)

**B.A. Geography
EQUIVALENCE**

Sr. No.	Class	Semester	Old Title	P. No.	New Title
1	B.A. I	I	Geomorphology	I	Physical Geography Geography DSE-1
2	B.A. I	II	Climatology	II	Human Geography Geography DSE-2
3	B.A.II	III	Soil Geography	III	Soil Geography Geography DSE-3
4	B.A.II	III	Human Geography	IV	Environmental Geography Geography DSE-4
5	B.A.II	IV	Oceanography	V	Oceanography Geography DSE-5
6	B.A.II	IV	Agricultural Geography	VI	Geography of Maharashtra Geography DSE-6
7	B.A.III	V	Physical Geography of India	VII	Geography of India Geography DSE-7
8	B.A.III	V	Economic Geography	VIII	Economic Geography Geography DSE-8
9	B.A.III	V	Research Methodology	IX	Research Methodology in Geography Geography DSE-9
10	B.A.III	VI	Economic Geography of India	X	Disaster Management Geography DSE-10
11	B.A.III	VI	Urban Geography	XI	Regional Planning and Development Geography DSE-11
12	B.A.III	VI	Political Geography	XII	Geography of Tourism Geography DSE-12
13	B.A.III	V & VI	Map Work & Map Interpretation	XIII	Geography DSE-13
14	B.A.III	V & VI	Advanced Tools and Techniques & Fieldwork	XIV	Geography DSE-14

**B.A.II Geography
GENERIC ELECTIVE**

Sr. No.	Class	Semester	Old Title	Title of the Course New
1	B.A. II	III	Tourism Geography-I (IDS)	Disaster Risk Reduction / Resource Geography of Maharashtra Course-I GE
2	B.A. II	IV	Tourism Geography-II (IDS)	Disaster Risk Reduction / Resource Geography of Maharashtra Course – II GE
3	B.A. II	III	Cartography –I (IDS)	Sustainability and Development/ Cartography Course –I GE
4	B.A. II	IV	Cartography- II (IDS)	Sustainability and Development / Cartography Course –II GE

Abbreviation: G.E. – Generic Elective

B. A. Part - I
DSE (Discipline Specific Elective) - I Geography
June 2018 onwards

Physical Geography

Preamble: This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the physical geography. The Geography students of B. A. Part-I can betterly understand all latest concepts in Physical Geography and Human Geography in brief but in adequate manner.

The objective of this course is to introduce the latest concepts in Physical Geography and Human Geography, Specifically in Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere, Human races, Population growth, Characteristics of Population and Settlements.

Semester - I

	Teaching Hours	Credits
Module – I Introduction to Physical Geography	15	01
1.1 Meaning and Definitions		
1.2 Scope of Physical Geography		
1.3 Branches of Physical Geography		
1.4 Importance of Physical Geography		
Module- II Atmosphere	15	01
2.1 Composition and Structure of Atmosphere		
2.2 Insolation: Factors affecting on Insolation		
2.3 Temperature: Distribution of temperature (Vertical and Horizontal)		
2.4 Atmospheric Pressure: Belts and Planetary Winds.		
Module – III Lithosphere	15	01
3.1 Interior of the earth		
3.2 Wagner’s Continental Drift Theory		
3.3 Earthquakes – Causes and Effects		
3.4 Volcano – Causes and Effects		
Module – IV Denudation	15	01
4.1 Weathering: Concept and Types		

4.2 Davis Concept of Cycle of erosion

4.3 Erosional Landforms of river.

4.4 Depositional Landforms of river.

Reference Books

- 1) Clyton K., (1986), Earth Crust, AdusBook , London.
- 2) Davis W. M., (1909), Geographical Essay, Ginnia Co.
- 3) Dayal P., (1996), Text Book of Geomorphology, Shukla Book Depot, Patna.
- 4) Kale V.S. and Gupta A., (2001), Elements of Geomorphology, Oxford University Press, Kolkata.
- 5) Kale V.S. and Gupta A., (2001), Elements of Geomorphology, Oxford Univ. Press. Monkhouse, (1951), Principle of Physical Geography, McGraw Hill Pub – New York.
- 6) Pitty A. F., (1974), Introduction to Geomorphology, Methuen London.
- 7) Singh Savindra, (2000), Physical Geography, PrayagPustakBhavan, 20-A, University Road, Allahabad – 211002.
- 8) Steers J. A., (1964), The Unstable Earth Some Recent Views in Geography, Kalyani Publishers, New Delhi.
- 9) Swaroop Shanti, (2006), Physical Geography, King Books, NaiSarak, Delhi – 110006.
- 10) Wooldridge S. W. and Morgan R. S., (1959), The Physical Basis of Geography and Outline of Geomorphology, Longman Green and Co. London.

B. A. Part - I
DSE (Discipline Specific Elective) - II Geography
Semester-II

Human Geography

Preamble : This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the Indian economy. It endeavors to provide useful insights to the students about the present economic standing and composition of the Indian economy, the major sectors and their relative importance in the Indian economy and the major challenges faced by it.

Semester – II

	Teaching Hours	Credits
Module- I Human Geography	15	01
1.1 Definitions of Human Geography		
1.2 Scope of Human Geography		
1.3 Branches of Human Geography		
1.4 Importance of Human Geography		
Module –II Population	15	01
2.1 Factors affecting on distribution of population		
2.2 Malthus’ theory of Population Growth		
2.3 Demographic Transition Theory		
2.4 Migration: Types and Effects		
Module –III Settlement	15	01
3.1 Types and patterns of rural settlements		
3.2 Functions of Rural Settlements		
3.3 Factors affecting on urbanization		
3.4 Functions of Urban Centers		
Module – IV Agriculture	15	01
4.1 Origin and History of Agriculture		
4.2 Types of Agriculture		
4.3 Factors affecting on agriculture		
4.4 Problems of Agriculture		

Reference Books

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur

3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
 4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
 5. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
 6. Kaushik, S.D. (2010) ManavBhugol, Rastogi Publication, Meerut.
 7. Maurya, S.D. (2012) ManavBhugol, ShardaPustakBhawan. Allahabad.
 8. Hussain, Majid (2012) ManavBhugol. Rawat Publications, Jaipur
 9. BeaujeuGamier : Geography of Population, Longman, London-1978
 10. Clarke J.I. : Population Geography, Pergamon Press Oxford – 1972
 12. HaggetPetter : Human Geography
 13. Ghosh B.N. : Fundamentals of Population Geography
 14. Hussin M. : Human Geography 1994
 15. Money D.S. : Human Geography
 16. Perpillon A.V. : Human Geography, Longman, London- 1986
 17. Robinson H. : Human Geography, 1976
 18. Mishra &Puri : Indian Economy 2004
 19. India- 2008 : Govt. of India
 20. Hassan Mohammed I. : Population Geography, 2005
 21. BhendeAsha&KanitkarTara :Principals of Population studies
 22. Perillonav : Human Geography, 1986
 23. Singh, R.Y. : Geography of Settlement, 1998
 24. Singh, Gopal :Mapwork& Practical Geography, 1999
 25. Sawant S.B. &Athavale A.S. Population Geography, Mehata publishing house, Pune
 26. Chandana R.C. : Geography of Population, Kalyani Pub. Ludharyana 1988
 27. सवदी.ए.बी. आणि कोळेकर .पी.एस.व लोक संख्या भूगोल निराली प्रकाशन पुणे.
 28. ताचोळे द.धो.–लोकसंख्याशास्त्र.
 29. पवार, अडसुळ, फुले ,पाटील–मानवी भूगोल सप्रेम प्रकाशन कोल्हापूर.
 30. प्रकाश सावंत–भूरूपशास्त्र व हवामानशास्त्र, फडके प्रकाशन
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EQUIVALENCE

Sr. No.	Semester	Old Name	New Name
1	I	Geomorphology	Physical Geography Geography DSE1
2	II	Climatology	Human Geography Geography DSE2

Course Structure for B.A Geography Three Years (6 Semester) Program

B.A. Part - I : Geography

Sr. No	Semester	Title of the Paper	Category	Distribution of Credit	Workload	Total Credits	Total Marks
1	I	Physical Geography	Geography DSE1	4	4 Hours /Week	08	50
2	II	Human Geography	Geography DSE1	4	4 Hours /Week		50

B.A. II Geography

Sr. No	Semester	Title of the Paper	Category	Distribution of Credit	Workload	Total Credits	Total Marks
1	III	Soil Geography	Geography DSE3	4	4 Hours /Week	16	50

2	III	Environmental Geography	Geography DSE4	4	4 Hours /Week		50
3	IV	Oceanography	Geography DSE5	4	4 Hours /Week		50
4	IV	Geography of Maharashtra	Geography DSE6	4	4 Hours /Week		50

B.A. Part - II : GENERIC ELECTIVE

Sr. No	Semester	Title of the Paper	Category	Distribution of Credit	Workload	Total Credits	Total Marks
1	III	Disaster Risk Reduction / Resource Geography of Maharashtra Course-I GE Sustainability and Development/ Cartography Course –I GE	Generic Elective	4	4 Hours /Week	16	50
2	IV	and Disaster Risk Reduction / Resource Geography of Maharashtra Course –II GE Sustainability and Development / Cartography Course –II GE	Generic Elective	4	4 Hours /Week		50

B.A. III Geography

Sr. No.	Semester	Title of the Paper	Category	Distribution of Credit	Workload	Total Credits	Theory Marks	Term Work Seminar
1	V	Geography of India	Geography DSE	4	4 Hours /Week	44	40	10
2	V	Economic Geography	Geography DSE	4	4 Hours /Week		40	10

3	V	Research Methodology in Geography	Geography DSE	4	4 Hours /Week		40	10
Sr. No.	Semester	Title of the Paper	Category	Distributio n of Credit	Workl oad		Theory Marks	Term Work Group Project
4	VI	Disaster Management	Geography DSE	4	4 Hours /Week		40	10
5	VI	Regional Planning and Development	Geography DSE	4	4 Hours /Week		40	10
6	VI	Geography of Tourism	Geography DSE	4	4 Hours /Week		40	10
7	V & VI	Map Work & Map Interpretation	Geography DSE	10	10 Hours /Week		100	Nil
8	V &VI	Advanced Tools and Techniques & Fieldwork	Geography DSE	10	10 Hours /Week		100	Nil

SHIVAJI UNIVERSITY, KOLHAPUR.



B

Accredited By NAAC

Revised Syllabus For

Bachelor of Arts

Part – II (Semester-III)

Introduction to Tourism Geography (IDS)

Paper-I

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2014 onwards.

Accredited By NAAC
New/Revised Syllabus For
Bachelor of Arts
(Part - II Semester - III)
Introduction to tourism Geography (IDS) Paper I
 (Subject to the modifications to be made from time to time)
Syllabus to be implemented from June 2014 onwards.

A] Ordinance and Regulations:-
(as applicable to degree/programme)

B] Shivaji University, Kolhapur
 New/Revised Syllabus For
Bachelor of Arts
Semester –III

1. TITLE : Subject – Introduction to tourism Geography (IDS)
 Optional under the Faculty of Science

2. YEAR OF IMPLEMENTATION:- New/Revised Syllabus will be implemented from June 2014 onwards.

3. PREAMBLE:-

All of us are part and parcel of the earth's environment. We will act as responsible citizens and participate proactively in all tourism activity to preserve the natural and cultural environment and leave for future generations in its nativeness.

4. GENERAL OBJECTIVES OF THE COURSE/ PAPER :

- 1) To familiarize the students with aspects of tourism which have a relation with the subject matter of Geography
- 2) To orient the students to the logistics of tourism industry and the role of tourism in regional development.
- 3) To understand the impact of tourism on physical and human environments.
- 4) To familiarize the students with local, regional and national tourism.

5. DURATION

- The course shall be a full time course
- The duration of course shall be of one year (Two semesters Sem. – III & IV)

6. PATTERN:-

Pattern of Examination will be Semester

7. FEE STRUCTURE:- (as applicable to regular/self supporting course)

i) Entrance Examination Fee (If applicable)- Rs----- (Not refundable)

ii) Course Fee-

Particulars	Rupees
Tuition Fee	Rs.
Laboratory Fee	Rs.
Computer Fee	Rs.
Annual/Semester fee-Per student	Total Rs.

Other fee will be applicable as per University rules/norms.

8. IMPLEMENTATION OF FEE STRUCTURE:-

In case of revision of fee structure, this revision will be implemented in phase wise manner as mentioned below:-

For Part I- From academic year_____ onwards.

For Part I & II- From academic year_____ onwards.

For Part I, II & III- From academic year_____ onwards.

9. ELIGIBILITY FOR ADMISSION :-

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

10. MEDIUM OF INSTRUCTION :

The medium of instruction shall be in English or Marathi. (as applicable to the course/programme concerned.)

11. STRUCTURE OF COURSE- -----

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.

SECOND YEAR B. A. ----- (NO.OF PAPERS TWO)

SEMESTER THIRD

Paper.No.	Title	Marks
IDS – Paper I	Introduction to Tourism Geography	50

12. SCHEME OF TEACHING AND EXAMINATION:-

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

SECOND YEAR

Scheme of Teaching and Examination

Sr. No	Subject / Paper	Teaching Scheme (Hrs / Week)				Examination Scheme (Marks)	
		L	T	P	Total	Theory	Total
1	Introduction to Tourism Geography- Paper-I	04	04	00	04	50	50

13. SCHEME OF EXAMINATION :-

- The examination shall be conducted at the end of each semester
- The Theory paper shall carry 50 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

14. STANDARD OF PASSING:-

As Prescribed under rules & regulation for each degree/programme.

15. NATURE OF QUESTION PAPER AND SCHEME OF MARKING :-

(Unit wise weightage of marks should also be mentioned)

Common Nature of Paper as per Social Sciences Faculty

16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr.N o.	Title of Old Paper	Title of New Paper	
	Semester - III	Semester - III	
1.	Paper- I Introduction to Tourism Geography	Paper - I	Introduction to Tourism Geography

17. SPECIAL INSTRUCTIONS , IF ANY.

NEW/REVISED SYLLABUS FOR
B.A. (Part II) Geography of Tourism (IDS)
(Introduced from June 2014 onwards)
Semester – III

(i) Paper – I

(ii) Title of Paper :- Introduction to Tourism Geography

(iii) Specific Objectives:-

(iv) A brief note :- (On expected level of study from examination and assessment point of view):- -----

Unit 1

(No.of Lectures – 15)

Nature and Scope of Geography of Tourism

- 1.1 Meaning and Definition of tourism.
- 1.2 Nature
- 1.3 Scope
- 1.4 Importance of tourism
- 1.5 Tourism as an interdisciplinary Subject
- 1.6 Recent Trends in Tourism Geography

Unit 2

(No.of Lectures – 20)

Factors affecting tourism development

- 2.1 Physical Factors –
 - 2.1.1 Relief
 - 2.1.2 Climate
 - 2.1.3 Vegetation
 - 2.1.4 Wild life
 - 2.1.5 Water Bodies
- 2.2 Socio – Cultural Factors
 - 2.2.1 Religious Factors
 - 2.2.2 Historical and Cultural Factors
- 2.3 Economic Factors
 - 2.3.1 Transportation
 - 2.3.2 Accommodation

Unit 3

(No.of Lectures – 15)

Classification and Recent Concepts of Tourism

- 3.1 Classification on the basis of -
 - 3.1.1 Nationality
 - 3.1.2 Time of travel
 - 3.1.3 Number of tourist
 - 3.1.4 Purpose

- 3.1.5 Mode of transportation
- 3.1.6 Season
- 3.1.7 Nature of tourism
- 3.2 Recent Concepts of Tourism
 - 3.2.1 Agro-tourism
 - 3.2.2 Eco-tourism
 - 3.2.3 Heritage tourism
 - 3.2.4 Adventure tourism

Unit 4

(No. of Lectures – 10)

Impact of Tourism On-

- 4.1 Economy
- 4.2 Socio-cultural aspects
- 4.3 Environment
- 4.4 Sustainable Development of Tourism

(vi) Recommended Reading :

(In MLA/APA Style Sheet Format)

a) Basic Reading :-

b) Additional Reading :-

c) References :-

1. Bhatia A.K. : International Tourism
2. Bhatia A.K. : Tourism Development
3. Dev Manoj : India – A Tourist Paradise
4. Dhar Pramath : Development of Tourism and Travel Industry
5. Gupta V.N. : Tourism in India
6. Negi Jagmohan : Tourism Development and Resource Conservation 28
7. Pearce Douglas : Tourism Development
8. Robinson R. : Geography of Tourism
9. Sharma K.C. : Tourism : Policy, Planning strategy.
10. Seth Pran : Enlessful Tourism Management
11. Sinha P.C. : Tourism Marketing
12. Singh Shawni : Principles of Indian Tourism
13. Singh S.N. : Geography of Tourism and Recreation
14. Singh Ratandeeep : Tourism Today Vol. 1
Tourism Today Vol. 2
Tourism Today Vol. 3
15. शिंदे एस.बी. : पर्यटन भूगोल
16. घारपुरे व्ही.टी. : पर्यटन भूगोल, पिंपळापुरे अँड पब्लीशर्स, नागपूर, 2003
- 17 Geography of Tourism – Distance Education Department, Shivaji University, Kolhapur

NOTE :

- i) The details of field work, seminar, Group Discussion and Oral examination be give wherever necessary.
- ii) General/Specific instructions for Laboratory safety should be given wherever necessary)

SHIVAJI UNIVERSITY, KOLHAPUR.



B

Accredited By NAAC

Revised Syllabus For

Bachelor of Arts

Part – II (Semester-IV)

Tourism in India (IDS) PaperII

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2014 onwards.

Accredited By NAAC
New/Revised Syllabus For
Bachelor of Arts
(Part - II Semester - IV)
Tourism in India (IDS) Paper-II
(Subject to the modifications to be made from time to time)
Syllabus to be implemented from June 2014 onwards.

A] Ordinance and Regulations:-
(as applicable to degree/programme)

B] Shivaji University, Kolhapur
New/Revised Syllabus For
Bachelor of Arts
Semester –IV

1. TITLE : Subject – Tourism in India (IDS)
Optional under the Faculty of Science

2. YEAR OF IMPLEMENTATION:- New/Revised Syllabus will be implemented from June 2014 onwards.

3. PREAMBLE:-

All of us are part and parcel of the earth's environment. We will act as responsible citizens and participate proactively in all tourism activity to preserve the natural and cultural environment and leave for future generations in its nativeness.

4. GENERAL OBJECTIVES OF THE COURSE/ PAPER :

- 1) To familiarize the students with aspects of tourism which have a relation with the subject matter of Geography
- 2) To orient the students to the logistics of tourism industry and the role of tourism in regional development.
- 3) To understand the impact of tourism on physical and human environments.
- 4) To familiarize the students with local, regional and national tourism.

5. DURATION

- The course shall be a full time course
- The duration of course shall be of one year (Two semesters Sem. – III & IV)

6. PATTERN:-

Pattern of Examination will be Semester

7. FEE STRUCTURE:- (as applicable to regular/self supporting course)

i) Entrance Examination Fee (If applicable)- Rs----- (Not refundable)

ii) Course Fee-

Particulars	Rupees
Tuition Fee	Rs.
Laboratory Fee	Rs.
Computer Fee	Rs.
Annual/Semester fee-Per student	Total Rs.

Other fee will be applicable as per University rules/norms.

8. IMPLEMENTATION OF FEE STRUCTURE:-

In case of revision of fee structure, this revision will be implemented in phase wise manner as mentioned below:-

For Part I- From academic year _____ onwards.

For Part I & II- From academic year _____ onwards.

For Part I, II & III- From academic year _____ onwards.

9. ELIGIBILITY FOR ADMISSION :-

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

10. MEDIUM OF INSTRUCTION :

The medium of instruction shall be in English or Marathi. (as applicable to the course/programme concerned.)

11. STRUCTURE OF COURSE- -----

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.

SECOND YEAR B. A. ----- (NO.OF PAPERS TWO)

SEMESTER FOURTH

Paper.No.	Title	Marks
IDS - II	Tourism in India	50

12. SCHEME OF TEACHING AND EXAMINATION:-

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

SECOND YEAR

Scheme of Teaching and Examination

Sr. No	Subject / Paper	Teaching Scheme (Hrs / Week)				Total	Examination Scheme (Marks)	
		L	T	P	Theory		Total	
1	Tourism in India– Paper-II	04	04	00	04	50	50	

13. SCHEME OF EXAMINATION :-

- The examination shall be conducted at the end of each semester
- The Theory paper shall carry 50 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire

Syllabus and preferably covering each unit of syllabi.

14. STANDARD OF PASSING:-

As Prescribed under rules & regulation for each degree/programme.

15. NATURE OF QUESTION PAPER AND SCHEME OF MARKING :-

(Unit wise weightage of marks should also be mentioned)

Common Nature of Paper as per Social Sciences Faculty

16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr.No.	Title of Old Paper	Title of New Paper	
1	Semester - IV Paper - II Tourism in India	Semester - IV Paper - II	Tourism in India

17. SPECIAL INSTRUCTIONS , IF ANY.

Semester - IV

(i) Paper – II

(ii) Title of Paper :- Tourism in India

(iii) Specific Objectives:-

(iv) A brief note :- (On expected level of study from examination and assessment point of view):- -----

Unit 1

(No.of Lectures – 15)

Development of Tourism in India

- 1.1 Tourism in ancient and medieval periods
- 1.2 Tourism in modern period
- 1.3 Role of tourism in national economy
- 1.4 Tourism policies of India and Maharashtra

Unit 2

(No.of Lectures – 15)

Geographical & Historical Tourism in India

- 2.1 Hill stations
- 2.2 Sea beaches
- 2.3 Sanctuaries and National Parks
- 2.4 Water Bodies – Lakes, Waterfalls, Snow fields
- 2.5 Forts, Capital places and other Historical places.

Unit 3

(No.of Lectures – 15)

Religious and Cultural Tourism in India

- 3.1 Religious tourist centers in North India
- 3.2 Religious tourist centers in South India
- 3.3 Cultural tourist centers in North India
- 3.4 Cultural tourist centers in South India

Unit 4

(No.of Lectures – 15)

Organization of Tour Aspects of Organization of tour

- 4.1 Importance of tour

- 4.2 Objectives of tour
- 4.3 Economic Planning
- 4.4 Frame work of tour
- 4.5 Choice of tourism centers
- 4.6 Duration of tour
- 4.7 Distance
- 4.8 Means of transportation
- 4.9 Age group
- 4.10 Accommodation

(vi) Recommended Reading :

(In MLA/APA Style Sheet Format)

a) Basic Reading :-

b) Additional Reading :-

c) References :-

1. Bhatia A.K. : International Tourism
2. Bhatia A.K. : Tourism Development
3. Dev Manoj : India – A Tourist Paradise
4. Dhar Pramath : Development of Tourism and Travel Industry
5. Gupta V.N. : Tourism in India
6. Negi Jagmohan : Tourism Development and Resource Conservation 28
7. Pearce Douglas : Tourism Development
8. Robinson R. : Geography of Tourism
9. Sharma K.C. : Tourism : Policy, Planning strategy.
10. Seth Pran : Enlessful Tourism Management
11. Sinha P.C. : Tourism Marketing
12. Singh Sharni : Principles of Indian Tourism
13. Singh S.N. : Geography of Tourism and Recreation
14. Singh Ratandeep : Tourism Today Vol. 1
Tourism Today Vol. 2
Tourism Today Vol. 3
15. शिंदे एस.बी. : पर्यटन भूगोल
16. चारपुरे व्ही.टी. : पर्यटन भूगोल, पिंपळापुरे अँड पब्लिशर्स, नागपूर, 2003
- 17 Geography of Tourism – Distance Education Department, Shivaji University, Kolhapur

NOTE :

- i) The details of field work, seminar, Group Discussion and Oral examination be give wherever necessary.
- ii) General/Specific instructions for Laboratory safety should be given wherever necessary)

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B. A. Part-III & B. A. B. Ed.

Geography

(Evolution of Geographical Thought)

CBCS PATTERN

Syllabus to be implemented from

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2020 onwards

**B. A. Part – III & B. A. B. Ed. Geography
(Evolution of Geographical Thought)
Syllabus to be implemented from June 2020 onwards**

1. TITLE : Evolution of Geographical Thought

Optional under the Faculty of Science

2. YEAR OF IMPLEMENTATION :

Revised Syllabus will be implemented from June 2020 onwards.

3. PREAMBLE

This curriculum focuses on the understanding of core and fundamental branches of the discipline. This paper is specially designed to cater to foundation building of the students by imparting knowledge about the pillars of geography. It encompasses the evolution of the subject right from the experiences and understanding of travelers and explorers regarding space, place and people to the progression towards establishment of the discipline geography in sciences.

4. GENERAL OBJECTIVES OF THE COURSE

- 1) To study the historical evolution of geographic thought.
- 2) An analysis of different paradigms in geography.
- 3) To evaluating the contemporary trends in geographical studies.
- 4) To study the paradigms and debates in the geographical studies.
- 5) To study the recent trends in geography.

5. COURSE OUTCOMES

- 1) In depth understanding about the evolution of geographical thought.
- 2) Detailed knowledge about the paradigms and debates in the geographical studies.
- 3) Understanding of recent trends in geography.

6. DURATION

- The course shall be a full time course
- The duration of course shall be of one year (Sem. – V)

7. PATTERN

Pattern of Examination will be Semester

8. FEE STRUCTURE

(As per the Shivaji University rules; and as applicable to regular)

9. ELIGIBILITY FOR ADMISSION :

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

10. MEDIUM OF INSTRUCTION :

The medium of instruction shall be in English or Marathi. (as applicable to the course /programme concerned.)

11. STRUCTURE OF COURSE 50 MARKS

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER FIFTH

Paper No.

Title Marks

DSC-E106 or VII, Evolution of Geographical Thought

50

12. SCHEME OF TEACHING AND EXAMINATION

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	Theory	Term Work	Total
1	Evolution of Geographical Thought	04	04	00	04	40	10	50

13. SCHEME OF EXAMINATION :

- The examination shall be conducted at the end of each semester
- The theory paper shall carry 40 marks
- The term work shall carry 10 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

14. STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree/ programme.

15. NATURE OF QUESTION PAPER AND SCHEME OF MARKING :

(Unit wise weightage of marks should also be mentioned)

Semester V	Marks
Qus : 1) Objective Type Question (Multiple Choice)	05
Qus : 2) Short Notes (Any three out of five)	15
Qus: 3) Detailed Answer Type Question (Any two out of three)	20

16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
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1	Physical Geography of India	VII	Evolution of Geographical Thought	E106 or VII
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17. SPECIAL INSTRUCTIONS, IF ANY.

**NEW/REVISED SYLLABUS FOR
B. A. Part-III and B. A. B. Ed. Geography
(Introduced from June 2020 onwards)
Semester - V**

(i) E106 or Paper No. VII

(ii) Title of Paper: Evolution of Geographical Thought

Module	Teaching Hours	Credit
Module – I Geography in Ancient Period	15	1
1.1 Contribution of Greeks and Romans		
1.2 Geography in Muslim world		
1.3 Renaissance period in Europe		
1.4 Renowned travelers and their geographical discoveries		
Module – II School of Geography	15	1
2.1 German School of Geography – Humboldt, Ritter		
2.2 French School of Geography – Blache & Brunhes		
2.3 American School of Geography – Sauer & Huntington		
2.4 British School of Geography – Mackinder & Herbertson		
Module – III Dualisms in Geography	15	1
3.1 Environmental Determinism and Possibilism		
3.2 Systematic & Regional geography		
3.3 Physical & human geography		
3.4 The myth and reality about dualisms		
Module – IV Trends in Geography	15	1
4.1 Quantitative Revolution and its Impact		
4.2 Changing Concept of Space in Geography		
4.3 Contribution of Indian Geographer		
4.4 Future of Geography		

Books Recommended :

Adhkari, S. (2006) *Fundamentals of Geographical Thought*, Chaitanya Publishing House, Allahabad.

- Bunkse, V.E.** (2004) *Geography and the art of Life*, John Hopkins University Press, Baltimore,
- Dikshit, R. D.** (1997). *Geographical Thought: A Contextual History of Ideas*. Delhi, India: Prentice– Hall India.
- Dixit, R.D.** (2001) *Geographical Thought : A critical History of ideas*, Prentice Hall of India, New Delhi
- Dixit, R.D.** (2001) *भौगोलिक चिंतन*, Prentice Hall of India, New Delhi
- Gaile, G. and Wilmot, C. (ed)** (2003) *Geography in America at the Dawn of the 21st Century*, Oxford University Press, Oxford & New York.
- Harvey, David.**, (1969): *Explanation in Geography*, London: Arnold.
- Hubbard, P. et al** (2002) *Thinking Geographically : Space, Theory and Contemporary Human Geography*, Continuum, London
- Johnston, R.J.** (1988) *The Future of Geography*, Methuen, London,
- Johnston, R.J. and Claval, P.** (1984) *Geography since the Second World War : An International survey*, Crown Haim, Sydney.
- Majid Husain** (2007): *Evolution of Geographic Thought* Rawat Publication, Jaipur
- Marcus, D.** (1999) *Post – Structuralism in Geography, The Diabolical Arts of Spatial Sciences*, Edinburgh University Press, Edinburgh.
- Martin Geoffrey J.** (2005). *All Possible Worlds: A History of Geographical Ideas*, UK: Oxford.
- Singh, R.B.** (2016). *Progress in Indian Geography*. New Delhi, India: Indian National Science Academy.
- Sudepta, A.** (2015). *Fundamentals of Geographical Thought*. Delhi, India: Orient black swan private limited.
- e-PG Pathshala: <https://epgp.inflibnet.ac.in/>
- MOOCS - NPTEL: <https://nptel.ac.in/>
- MOOCS - SWAYAM: <https://swayam.gov.in/>
- National Digital Library of India: <https://ndl.iitkgp.ac.in/>
- Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B. A. Part-III & B. A. B. Ed.

Geography

(Economic Geography)

CBCS PATTERN

Syllabus to be implemented from

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2020 onwards

B. A. Part – III & B. A. B. Ed.
Geography (Economic Geography)
Syllabus to be implemented from June 2020 onwards
Semester-VI

1. TITLE : Economic Geography

Optional under the Faculty of Science

4. YEAR OF IMPLEMENTATION :

Revised Syllabus will be implemented from June 2020 onwards.

5. PREAMBLE

[**Note :-** The Board of Studies should briefly mention foundation, core and applied components of the course/paper. The student should get into the prime objectives and expected level of study with required outcome in terms of basic and advance knowledge at examination level.]

9. GENERAL OBJECTIVES OF THE COURSE

- 6) To study the basics of economic geography.
- 7) To study the locational factors of economic activities with special reference to agriculture and industry.
- 8) To study the basics concepts related to manufacturing and major manufacturing industries of selected countries of the world.
- 9) To study the transport and trade.

10. COURSE OUTCOMES

- 4) In depth understanding about the economic geography.
- 5) Detailed knowledge about locational factors of economic activities with special reference to agriculture and industry.
- 6) Detailed understanding of the basics concepts related to manufacturing and major manufacturing industries (selected countries) of the world.
- 7) Understanding of the transport and trade.

11. DURATION

- The course shall be a full time course
- The duration of course shall be of one year (Sem. – VI)

12. PATTERN

Pattern of Examination will be Semester

13. FEE STRUCTURE

(As per the Shivaji University rules; and as applicable to regular)

11. ELIGIBILITY FOR ADMISSION :

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

12. MEDIUM OF INSTRUCTION :

The medium of instruction shall be in English or Marathi. (as applicable to the course /programme concerned.)

12. STRUCTURE OF COURSE 50 MARKS

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER FIFTH**Paper No.****DSE-E230 or X, Economic Geography****Title Marks****50****12. SCHEME OF TEACHING AND EXAMINATION**

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	Theory	Term Work	Total
1	Economic Geography	04	04	00	04	40	10	50

14. SCHEME OF EXAMINATION :

- The examination shall be conducted at the end of each semester
- The theory paper shall carry 40 marks
- The term work shall carry 10 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

16. STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree/ programme.

17. NATURE OF QUESTION PAPER AND SCHEME OF MARKING :

(Unit wise weightage of marks should also be mentioned)

Semester -VI	Marks
Qus : 1) Objective Type Question (Multiple Choice)	05
Qus : 2) Short Notes (Any three out of five)	15
Qus: 3) Detailed Answer Type Question (Any two out of three)	20

17. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
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1	Economic Geography of India	X	Economic Geography	DSE-E230 or X
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17. SPECIAL INSTRUCTIONS, IF ANY.

**NEW/REVISED SYLLABUS FOR
B. A. Part-III and B. A. B. Ed. Geography
(Syllabus to be implemented from June 2020 onwards)
Semester - VI**

(iii) **E230 or Paper No. X**

(iv) **Title of Paper: Economic Geography**

Module	Teaching Hours	Credit
Module – I Introduction to Economic Geography	15	1
1.1 Definition, Nature and Scope		
1.2 Concept and Classification of Economic Activity		
1.3 Branches of Economic Geography		
1.4 Significance of Economic Geography		
Module – II Economic Activity	15	1
2.1 Factors Affecting on Location on Agricultural Activity		
2.2 Factors Affecting on Location on Industry Activity		
2.3 Location Theory: i) Weber’s Theory of Industrial Location ii) Losch’s Theory of Industrial Location		
Module – III Manufacturing Activity	15	1
3.1 Concept of Manufacturing Regions		
3.2 Concept of Special Economic Zones		
3.3 Major Industries: i) Cotton Textile Industry - USA ii) Iron and Steel Industry – USA iii) Sugar Industry – Brazil iv) Automobile Industry – India and Japan		
Module – IV Transport and Trade	15	1
4.1 Significance of Transportation		
4.2 Major Transport Routs: Roadway, Railway, Airway and Ocean Routs		

4.3 International Trade: India, USA, China and Brazil

4.4 Trade Policies: India, USA and China

Books Recommended :

References

- Alexander J. W., (1963): Economic Geography, Prentice Hall Inc Englewood Cliffs, New Jersey.
- Boesch H. (1964) : A Geography of world Economy” D. Van Nostrand co. New York.
- Coe N. M., and others, (2007): Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
- Combes P., Mayer T. and Thisse J. F., (2008) Economic Geography: The Intergration of Regions and Nations, Princeton University Press.
- Goh Chang & Morgan, G.C. (1997): Human and Economic Geography, Oxford University Press.
- H. Robinson (1978): Economic Geography, Macdonald & Evans.
- Hamilton, I (1992) : Resources and Industry, Oxford University Press New York.
- Hartshorn, T.N. and Alexander, J.W. (1994): Economic Geography, Prentice Hall, New Delhi.
- Hodder B. W. and Lee Roger, (1974): Economic Geography, Taylor and Francis.
- Meyer, B. S., Anderson, D. B. and Bohning, R. H. (1960): An Introduction to Plant Physiology, Von Nostrand Company, New York.
- Roborston D (2001) : Globalization and Environment E. Elgar CO.U.K.
- Sadhukhan S. K., (1990): Economic Geography An Appraisal of Resources, S. Chand and Company Ltd., New Delhi.
- Truman A. Hartshorn and John W. Alexander, (1988): Economic Geography, PHI Learning Private Limited, New Delhi.
- Walker, D. F., Collins, L. (Eds.), (1975): Locational Dynamics of Manufacturing Activity, John Wiley and Sons, New York.
- Wheeler J. O., (1995) : Economic Geography John Wiley, New York.
- White H.P. and Senior M.L. (1983) Transport Geography, Longman, London.
- Willington D. E., (2008): Economic Geography, Husband Press.
- Zimmermann, E. W., (1933): World's Resources and Industries, Harper and Row, New York.
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izdk'ku

NOTE :

- i) The details of field work, seminar, Group Discussion and Oral examination be given wherever necessary.
- ii) General/Specific instructions for Laboratory safety should be given wherever necessary.

Draft Syllabus

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B. A. Part-III & B. A. B. Ed.

Geography of India

CBCS PATTERN

(Subject to the modifications to be made from time to time)
Syllabus to be implemented from June 2020 onwards

**Accredited By NAAC
With 'A' Grade
New/Revised Syllabus For
Bachelor/Master of**

B. A. Part – III / B. A. B. Ed.

DSC (Discipline Specific Core Course) – E107 (Paper No. VIII) Geography (Sem. V)
Syllabus to be implemented from June 2020 onwards

A] Ordinance and Regulations:-

(As applicable to degree/program)

B] Shivaji University, Kolhapur

New/Revised Syllabus For Bachelor of Arts and B. A. B. Ed.

1. TITLE: Subject –GEOGRAPHY OF INDIA

Optional/Compulsory/Additional/IDS under the Faculty of Science

2. YEAR OF IMPLEMENTATION: - New/Revised Syllabi will be implemented from June 2020 onwards.

3. PREAMBLE:-

The present course focuses on the studies of Geography of India should briefly mention foundation, core and applied components. The student should get into the prime objectives and expected level of study with required outcome in terms of basic and advance knowledge of physiography, climate, drainage, soils, vegetation, agriculture and industry etc.

4. GENERAL OBJECTIVES OF THE COURSE/ PAPER/:

(As applicable to the Degree /Subject- Paper concerned)

- 1) To acquaint the students with distinct dimensions of India and physical setup of the country.
- 2) To focus the climate of India and mechanism of monsoon of India.
- 3) To get information about soils and vegetations in India.
- 4) To help the students to understand recent trends in regional study.
- 5) To focus on the mineral, agricultural and industrial product of the country.
- 6) To understand the economic setup of the country.

4.1 COURSE OUTCOMES

- 1) In depth understanding the dimensions and physiography of India.

- 2) The students are fully aware about the mechanism of monsoon, climatic seasons in India.
- 3) Detailed knowledge about soils, vegetations, drainage systems in India.
- 4) Understanding an importance of agriculture and industry in Indian economy.
- 5) Detailed knowledge about the economic setup of the India.

5. DURATION

- **The course shall be a full time course.**
- **The duration of course shall be of Three years, as applicable to the respective degree.**

6. PATTERN:-

Pattern of Examination will be Semester.

7. FEE STRUCTURE :-

As per Government /University rules.

[Note: - In case of any New degree/Program started at university/college, the respective colleges/ Dept. should submit a separate proposal of fee structure to BOS office. (i. e. Tution Fee & Laboratory Fee, if any.)

8. ELIGIBILITY FOR ADMISSION:-

As per eligibility criteria prescribed for respective degree program and the merit in the qualifying examination (i.e. Entrance Examination), if any.

9. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course / programme concerned.)

10. STRUCTURE OF COURSE = 50 marks

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER FIFTH

Paper No.

E107 (DSC)/Paper No. VIII, Geography of India

Title Marks

50

11. SCHEME OF TEACHING:

The scheme of teaching and examination should be given as applicable to the course / paper concerned.

Sr. No.	Subject/Papers	Teaching Scheme Per Week				Examination Scheme Sr. (Marks)			
		L	T	P	Total	Theory	Practical	Term work	Total
1	Geography of India	04	04	-	04	40	-	10	50

12. SCHEME OF EXAMINATION:

- The examination shall be conducted at the end of each term for semester pattern.
- The Theory paper shall carry 40 marks and term work shall carry 10 marks (as applicable to the course).
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 40 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

13. STANDARD OF PASSING:

As per Prescribed rules and regulation for each degree / programme.

14. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:

Common Nature of Paper as per Social Sciences Faculty

15. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
1	Economic Geography	VIII	Geography of India	DSE-E 107 Or VIII

16. SPECIAL INSTRUCTIONS, IF ANY – Nil

**New/ Revised syllabus for
B. A. Part-III and B. A. B. Ed. (Semester -V)
(Syllabus to be implemented from June 2020 onwards)**

(i) Paper – E107 or VIII

(ii) Title of Paper - Geography of India.

(iii) Specific Objectives: -----

(iv) A brief note: - (On expected level of study from examination and assessment point of view) :- -----

Module	Lectures	Credit
I) Physical Profile of India	20	1
1.1) Location		
1.2) Physiographic Divisions (Characteristics and Importance)		
1.3) Climate: Mechanism of Indian Monsoon, Seasons in India: Summer, Rainy and Winter (weather conditions and Characteristics)		
1.4) Major Drainage Systems: Ganga, Brahmaputra, Narmada, Godavari, Krushana (Characteristics and Importance)		
II) Soils and Forests	14	1
2.1 Major soil types, characteristics and distribution in India		
2.2 Soil degradation and soil conservation in India		
2.3 Major forest types: characteristics and their distribution		
2.4 Deforestation and conservation of forests in India		
III) Mineral and Power Resources	13	1
3.1 Conventional Resources: Iron Ore and Manganese (Distribution, Production and Trade).		
3.2 Power Resources: Coal, Mineral Oil, Natural Gas (Distribution, Production and Trade).		
3.2 Non Conventional Resources: Solar and Wind (Distribution, Production and Trade).		
IV) Agriculture and Industry	13	1
4.1 Importance of Agriculture in Indian Economy.		

4.2 Major Crops: Rice, Wheat, Sugarcane and Cotton (Distribution, Production and Trade)

4.3 Importance of Industries in Indian Economy.

4.4 Industries: Location Factors, Sugar Industry, Cotton Textile Industry, Iron and Steel Industry, and Fertilizer industry (Distribution, Production and Trade)

References:

1. Majid H., (2013): Geography of India, Tata Mcgraw Hill Education (India) Private Limited, New Delhi.
2. Khullar R. D. (2007): India- A Compressive Geography, Kalayani Publisher.
3. Tiwari, R.C. (2007) Geography of India. Prayag Pustak Bhawan, Allahabad.
4. Singh R. L., (1971): India: A Regional Geography, National Geographical Society of India.
5. Deshpande C. D., (1992): India: A Regional Interpretation, ICSSR, New Delhi.
6. Johnson, B. L. C., ed. (2001). Geographical Dictionary of India. Vision Books, New Delhi.
7. Mandal R. B. (ed.), (1990): Patterns of Regional Geography – An Intenational Perspective. Vol. 3 –
8. Indian Perspective.
9. Sdyasuk Galina and Sengupta P., (1967): Economic Regionalisation of India, Census of India
10. Sharma, T. C. 2003: India - Economic and Commercial Geography. Vikas Publ., New Delhi.
11. Singh, J., (2003),: India - A Comprehensive & Systematic Geography, Gyanodaya Prakashan, Gorakhpur.
12. Spate O. H. K. and Learmonth A. T. A., (1967): India and Pakistan: A General and Regional
13. Geography, Methuen.
14. Tirtha, R., (2002): Geography of India, Rawat Pubs., Jaipur & New Delhi.
15. Pathak, C. R. (2003): Spatial Structure and Processes of Development in India. Regional Science

16. Assoc., Kolkata.
17. Sharma, T.C. (2013): Economic Geography of India. Rawat Publication, Jaipur.
18. Savadi, Kolekar: Bharatacha Samarag Bhugol, Nirali Prakashan, Pune.
19. Khatib K. A.,: Geography of India
20. Pawar C.T. & Others : Geography of India.
21. Soil and Water conservation manual Govt. of India.

Draft Syllabus

SHIVAJI UNIVERSITY, KOLHAPUR.



**Accredited By NAAC
Revised Syllabus For
Bachelor of Arts/Science Part III and B. A. B. Ed.
Geography
(Choice Based Credit System)**

**Urban Geography
OR
Regional Planning and Sustainable Development**

**(Subject to the modifications to be made from time to time)
Implemented From June, 2020 onward**

**B. A. Part – III & B. A. B. Ed.
Geography (Urban Geography), Semester-VI
Implemented From June, 2020 onward**

**A] Ordinance and Regulations:-
(As applicable to Degree/Programme)**

**B] Shivaji University, Kolhapur
Revised Syllabus For B. A. Part – III and B. A. B. Ed.**

1. TITLE: Subject – Urban Geography

2. FACULTY of SCIENCE:- Optional under the Faculty of Science

3. YEAR OF IMPLEMENTATION: - Revised Syllabus will be implemented from June 2020 onwards.

4. PREAMBLE:-

[**Note:** - The Board of Studies should briefly mention foundation, core and applied components of the course/paper. The student should get into the prime objectives and expected level of study with required outcome in terms of basic and advance knowledge at examination level.]

5. GENERAL OBJECTIVES OF THE COURSE:

- 1) To Study the basic of Urban Geography.
- 2) To Study the types of Urban Settlements, Site and Situations.
- 3) To get an ideas of relationship between human activities and urban development.
- 4) To make the students capable for handling the present problematic situation in Urban and rural areas.
- 5) To make students as a good urban planner and environmental conservator.

6. COURSE OUTCOMES:

- 1) The students were known the importance of urban settlements through urban geography.
- 2) The students understood the types of Urban Settlements, Site and Situations.
- 3) The students were familiar with an idea of relationship between human activities and urban development.
- 4) Detail understanding of students regarding present urban problems and students are capable to handling of present problematic situations in urban areas.
- 5) The students are developed as a good urban planner and environmental conservator.

6. DURATION

- The course shall be a full time course.
- The duration of course shall be of one semester.

7. PATTERN:-

Pattern of Examination will be Semester

8. FEE STRUCTURE:-

(as applicable to regular course determined by the university and other fee will be applicable as per University rules/norms)

9. ELIGIBILITY CRITERIA FOR ADMISSION:

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

10. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course/programme concerned.)

11. STRUCTURE OF COURSE-

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER FIFTH

Paper No.

DSC-E231 or XI, Urban Geography

Title Marks

50

12. SCHEME OF TEACHING AND EXAMINATION:

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

THIRD YEAR

Scheme of Teaching and Examination

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/Week)				Examination Scheme Sr. (Marks)		
		L	T	P	Total	Theory	Term work	Total
1	Urban Geography	04	04	00	04	40	10	50

SCHEME OF EXAMINATION:

- The examination shall be conducted at the end of each semester

- The Theory paper shall carry 50 marks
- The term work shall carry 10 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

13. STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree/programme.

14. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:

(Unit wise weightage of marks should also be mentioned)

Semester VI	Marks
Qus : 1) Objective Type Question (Multiple Choice)	10
Qus : 2) Short Note Type Question (Any four out of six)	20
Qus: 3) Detail Answers Type Question (Any two out of three)	10

15. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
1	Urban Geography	XI	Urban Geography	DSE-E231 or XI

16. SPECIAL INSTRUCTIONS, IF ANY.

REVISED SYLLABUS FOR
(Choice Based Credit System)
B. A. Part-III and B. A. B. Ed, Geography
(Introduced from June 2020 onwards)

Semester – VI

(i) DSE- E231 or XI

(ii) Title of Paper: - Urban Geography

(iii) Specific Objectives:-

(iv) A brief note: - (On expected level of study from examination and assessment point of view):- -----

Modules	No. of Lectures
Module-I: Introduction to Urban Geography	15
Credit	01
1.1 Urban Geography Introduction: Meaning and Definitions	
1.2 Nature of Urban Geography	
1.3 Scope of Urban Geography	
1.4 Significance of Urban Geography	
Module-II: Urbanization	15
	01
2.1 Site and Situation: Significance and Types.	
2.2 Concept and Factors of Urbanization.	
2.3 Patterns of Urbanization in developed and developing countries.	
2.4 Functional classification of cities (Quantitative and Qualitative).	
Module-III: 3 Structure and Morphology of Urban Centers	15
01	
3.1 Concept of Structure and Morphology	
3.2 Concept of City Region and C.B.D.	
3.3 Rural-Urban Fringes.	
3.4 Models of Town Morphology: The concentric Zone Theory, The Sector Theory and the Multi-Nuclei Theory.	

01

- 4.1 Urban Issues: problems of housing, slums, civic amenities (water and transport).
- 4.2 Concept of Garden City.
- 4.3 Case studies of Delhi, Mumbai, with reference to Land use and Urban Issues.
- 4.3 Urban Planning in India.

References

1. Tim Hall. (1998) : Urban Geography, Routledge ,London.
2. Verma L.N.: Urban Geography, Rawat Publications, Jaipur.
3. Johnson J. H. (1967) : Urban Geography, An Introductory Analysis.
4. Bose A., : India's Urbanization 1974-2000, Tata McGraw Hill, New Delhi.
5. Carter H. (1972): The study of urban Geography, Edward Arnold, London.
6. Smailes A. E. : The Geography of Towns.
7. Taylor and Pntnam : Geography of UrbanPlaces.
8. Hudson F : SettlementGeogrpahy
- 9n'ki kllstlh-Mh-1983%kgjs&dkiWU/husaVyzdk'ku]iqi: 11- [krhcds- ,- 2007 %olkgrhHkwxksy] vtcizdk'ku] dksYgkiwj
12. Mandal : Urban Geography

C. Other Features:

1. Intake Capacity/Number of Students: (Wherever applicable)
2. The details of field work, seminar, Group Discussion and Oral examination be given wherever necessary.
3. General/Specific instructions for Laboratory safety should be given wherever necessary)

**B. A. Part – III & B. A. B. Ed. Geography
(Regional Development and Sustainable Development)
Implemented From June, 2020 onward**

**A] Ordinance and Regulations:-
(As applicable to degree/programme)**

**B] Shivaji University, Kolhapur
Revised Syllabus For B. A. Part – III and B. A. B. Ed.**

1. TITLE: Subject – Regional Planning and Sustainable Development

2. FACULTY of SCIENCE:- Optional under the Faculty of Science

3. YEAR OF IMPLEMENTATION: - Revised Syllabus will be implemented from June 2020 onwards.

4. PREAMBLE:-

Regional Planning is the need of time to everyone. Geography subject can lead to the development of human activities through regional planning. In the process of development of geography, the changing nature of subject will make aware to the students about the recent technologies used in geography. This will further help to improve the use of geographical techniques and methods in teaching, learning and research work through regional planning.

5. GENERAL OBJECTIVES OF THE COURSE:

- 1) To introduce the students with the importance of regional planning.
- 2) To understand the concepts of region, regionalization, regional planning & development.
- 3) To give basic information to the students about the region.
- 4) To get familiar with indicators of measurement of development.
- 5) To understand Perroux's Growth Pole Model & Growth Center Model in Indian context.
- 6) To develop skills for demarcation of region.
- 7) To aware the students regional planning with recent technology.

6. COURSE OUTCOMES:

- 6) The students were known the importance of regional planning.
- 7) The students understood the concepts of region, regionalization, regional planning & development and detailed knowledge of region.
- 8) The students were familiar with indicators of measurement of development.

- 9) Detail understanding of Perroux's Growth Pole Model & Growth Center Model in Indian context.
- 10) The students are develop skills for demarcation of region and aware the regional planning with recent technology.

6. DURATION

- The course shall be a full time course.
- The duration of course shall be of one semester.

7. PATTERN:-

Pattern of Examination will be Semester

8. FEE STRUCTURE:-

(as applicable to regular course determined by the university and other fee will be applicable as per University rules/norms)

9. ELIGIBILITY CRITERIA FOR ADMISSION:

As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.

10. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course/programme concerned.)

11. STRUCTURE OF COURSE-

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER FIFTH

Paper No.	Title	Marks
DSC-E231 or XI, Regional Planning and Sustainable Development		40

12. SCHEME OF TEACHING AND EXAMINATION:

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

THIRD YEAR

Scheme of Teaching and Examination

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/Week)				Examination Scheme Sr. (Marks)		
		L	T	P	Total	Theory	Term	Total

							work	
1	Regional Planning and Sustainable Development	04	04	00	04	40	10	50

SCHEME OF EXAMINATION:

- The examination shall be conducted at the end of each semester
- The Theory paper shall carry 50 marks
- The term work shall carry 10 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

13. STANDARD OF PASSING:

As Prescribed under rules & regulation for each degree/programme.

14. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:

(Unit wise weightage of marks should also be mentioned)

Semester VI		Marks
Qus : 1)	Objective Type Question (Multiple Choice)	10
Qus : 2)	Short Note Type Question (Any four out of six)	20
Qus: 3)	Detail Answers Type Question (Any two out of three)	10

15. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
1	Urban Geography	XI	Regional Planning and Sustainable	DSE-E231 or XI

16. SPECIAL INSTRUCTIONS, IF ANY.

REVISED SYLLABUS FOR
(Choice Based Credit System)
B. A. Part-III and B. A. B. Ed, Geography
(Implemented From June, 2020 onward)

Semester – VI

(i) DSE- E231 or XI

(ii) Title of Paper: - Regional Planning and Sustainable Development

(iii) Specific Objectives:-

(iv) A brief note: - (On expected level of study from examination and assessment point of view):- -----

Modules	No. of Lectures	
Credit		
Modules 1: Region and Regionalization	(15)	1
1.1 Definition of Region and Regionalization		
1.2 Characteristics of Region		
1.3 Types of Region		
1.4 Demarcation of Region		
Modules 2: Regional Planning	(15)	1
2.1 Concept of Regional Planning		
2.2 Need for Regional Planning and Types of Regional Planning		
2.3 Choice of a Region for Planning		
2.4 Regionalization of India for Planning		
Modules 3: Models for Regional Planning	(15)	1
3.1 Growth Pole Model of Perroux		
3.2 Spread and Backwash concept		
3.3 Central Place Theory		
3.4 Growth Centre Mode in Indian Context		
Modules 4: Sustainable Development	(15)	1
4.1 Concept of Sustainable Development and Underdevelopment		
4.2 Rostow's Growth Model- Stages of Development		
4.3 An Indicators of Measuring Development		
4.4 Human Development Index (HDI)		

18. Recommended Reading Material:

1. Alden, J. and Morgan, (1974): Regional Planning: A Comprehensive View, Leonard Hill Books, Beds.
2. Adrill, J. (1974): New Citizens Guide to Town and Country Planning, Charies knight and Company Ltd. London.
3. Chand, M. & Puri, V. (1983): Regional Planning in India, Allied Publishers Ltd., New Delhi.
4. Chandra, R.C. (2000): Regional Planning and Development, Kalyani Publishers, Ludhiana.
5. Cook. P. (1983): Theories of Planning and Spatial Development, Hutchinson & Company Ltd. London.
6. Diamond, D. (ed) (1982): Regional Disparities and Regional Policies, Pergamon Press, Oxford.
7. Dickinson R.E. (1964): City and Region: A Geographical Interpretation. Routledge and Keagan Paul.
8. Friedman, J. & Alonson W. (1964): Regional Development and Planning. MIT Press. Cambridge.
9. Galasson, John (1974): An Introduction to Regional Planning Hutchinson. Educational London.
10. Hilborot, J.G.M (1971): Regional Planning. Rotterdam University Press, Rotterdam.
11. Misra, R.P. Sundaram K.V. & Rao, V.L.S. Prakasa (1974): Regional Development Planning In India.
12. Misra, R.P. (1992): Regional Planning. Concept Publishing Company. New Delhi.
13. Reddi, K. V. (1988): Rural Development in India, Himalaya Pub, Mumbai.
14. Singh, R.L.(2008): Fundamentals of Human Geography, Sharada Pustak Bhawan, Allahabad.
15. Sundran, K.V. (1977): Urban and Regional Planning in India, Vikas Publishing, New Delhi.
16. Swawy, M.C.K., Bhaskara, R. Hegde, V.M. (eds.) (2008): Urban Planning and Development at Cross Roads, BC Books for Change, Bangalore.
17. Whynnes, Charles & Hammand (1979): Elements of Human Geography, George Aflen & Unwin, London.
18. Kothari, C. R. (1985): Research Methodology- Methods and Techniques, Wiley Eastern Limited, New Delhi
18. सवदी ए. बी. व कोळेकर पी. एस. (2008): भूगोलाची मूलतत्वे, खंड दुसरा, निराली प्रकाशन, पुणे

C. Other Features:

1. Intake Capacity/Number of Students: (Wherever applicable)
2. The details of field work, seminar, Group Discussion and Oral examination be given wherever necessary.
3. General/Specific instructions for Laboratory safety should be given wherever necessary)

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B. A. Part-III & B. A. B. Ed.

**Population Geography
Or
Social Geography**

CBCS PATTERN

Syllabus to be implemented from

(Subject to the modifications to be made from time to time)
Syllabus to be implemented from June 2020 onwards

B. A. Part – III and B. A. B. ED.
DSC (Discipline Specific Core Course) E108 Geography (Course / Paper No. IX)
June 2020 onwards
Semester - V

A) Ordinance and Regulations:

(As applicable to degree/program)

B) Shivaji University, Kolhapur

New/Revised Syllabus For **Bachelor of –Arts and B. A. B. Ed.**

1. TITLE: POPULATION GEOGRAPHY

Optional/Compulsory/Additional/IDS under the Faculty of Science

2. YEAR OF IMPLEMENTATION:

New/Revised Syllabi will be implemented from June 2020 onwards.

3. PREAMBLE:-

This curriculum focuses on the understanding of core and fundamental branches of the discipline. This paper is specially designed to learn the role of demography and population studies as a distinct field of human geography. It encompasses sound knowledge of key concept, different components of population. The curriculum has been carefully designed to include conceptual, basic themes, population dynamics and characteristic with contemporary issues.

4. GENERAL OBJECTIVES OF THE COURSE/ PAPER/:

- 1) To study the basics of population geography.
- 2) To study the population growth trends and its distribution.
- 3) To study the population dynamics.
- 4) To study the population compositions and its characteristics.

5. Course Outcomes:

- 1) This paper would bring an understanding of population geography along with relevance of demographic data.
- 2) The students would get an understanding of distribution and trends of population growth in the developed and less developed countries, along with population theories.
- 3) The students would get an understanding of the dynamics of population.
- 4) An understanding of the implications of population composition in different regions of the world.
- 5) An appreciation of the contemporary issues in the field of population studies

5. DURATION:

- The course shall be a full time course.
- The duration of course shall be of Three years, as applicable to the respective degree.

6. PATTERN:

Pattern of Examination will be Semester.

7. FEE STRUCTURE :

As per Government /University rules.

[Note: - In case of any New degree/Program started at university/college, the respective colleges/ Dept. should submit a separate proposal of fee structure to BOS office. (i. e. Tuition Fee & Laboratory Fee, if any.)]

8. ELIGIBILITY FOR ADMISSION:

As per eligibility criteria prescribed for respective degree program and the merit in the qualifying examination (i.e. Entrance Examination), if any.

9. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course / programme concerned.)

10. STRUCTURE OF COURSE = 40 + 10 = 50 marks

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

THIRD YEAR / SEMESTER

Paper No.	Title Marks
Course / Paper DSE-E108 or IX, Population Geography	50

11. SCHEME OF TEACHING:

The scheme of teaching and examination should be given as applicable to the course / paper concerned.

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	Theory	Term Work	Total
1	Population Geography	04	04	00	04	40	10	50

12. SCHEME OF EXAMINATION:

- The examination shall be conducted at the end of each term for semester pattern.
- The Theory paper shall carry 40 marks (as applicable to the course).
- The term work shall carry 10 marks
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 40 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus

and preferably covering each unit of syllabi.

13. STANDARD OF PASSING:

As per Prescribed rules and regulation for each degree / programme.

14. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:

Common Nature of Paper as per Social Sciences Faculty

15. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
1	Research Methodology	IX	Population Geography	E108 or IX

16. SPECIAL INSTRUCTIONS, IF ANY – Nil

**NEW/REVISED SYLLABUS FOR
B. A. Part-III and B. A. B. Ed. Geography
(Syllabus to be implemented from June 2020 onwards)
Semester - V**

- (i) **Course/ Paper No. E108 or IX**
- (ii) **Title of Paper: - POPULATION GEOGRAPHY**
- (iii) **Specific Objectives: -**
- (iv) **A Brief note: - (On expected level of study from examination and assessment point of view): -.....**

Module	Teaching Hours	Credits
Module I: Introduction to Population Geography	15	01
1.1 Definition of Population Geography		
1.2 Nature and Scope of Population Geography		
1.3 Significance of Population Geography		
1.4 Sources of Population Data		
Module II: Population Growth and Distribution	15	01
2.1 World Growth of population		
2.2 Factors affecting on the distribution of population		
2.3 Population distribution of the world		
2.4 Theories of Population Growth: Malthus Theory and Demographic Transition Theory		
Module III: Population Dynamics	15	01
3.1 Concept of Population Dynamics		
3.2 Fertility: Causes, Effects and Measures		
3.3 Mortality: Causes, Effects and Measures		
3.4 Migration: Causes, Effects and Measures		
Module III: Population Composition and Characteristics	15	01
4.1 Age: Causes, Effects, Measures and Characteristics		
4.2 Sex: Causes, Effects, Measures and Characteristics		
4.3 Literacy: Causes, Effects, Measures and Characteristics		
4.4 Rural and Urban Composition: Causes, Effects and Characteristics		

REFERENCES:

1. Barrett H. R., 1995: Population Geography, Oliver and Boyd.
2. Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya Publishing House.
3. Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, Kalyani Publishers.
4. Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.
5. Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.
6. Lutz W., Warren C. S. and Scherbov S., 2004: The End of the World Population Growth in the 21st Century, Earthscan
7. Newbold K. B., 2009: Population Geography: Tools and Issues, Rowman and Littlefield Publishers.
8. Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.
9. Wilson M. G. A., 1968: Population Geography, Nelson.
10. Panda B P (1988): Janasankya Bhugol, M P Hindi Granth Academy, Bhopal
11. Maurya S D (2009) Jansankya Bhugol, Sharda Putak Bhawan, Allahabad
12. Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi
14. Trewartha, G T (1969), A Geography of Population: world patterns, John Wiley, New York.
15. e-PG Pathshala: <https://epgp.inflibnet.ac.in/>
16. MOOCS - NPTEL: <https://nptel.ac.in/>
17. MOOCS - SWAYAM: <https://swayam.gov.in/>
18. National Digital Library of India: <https://ndl.iitkgp.ac.in/>
19. Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>



B. A. Part – III & B. A. B. Ed.
SOCIAL GEOGRAPHY
Syllabus to be implemented from June 2020 onwards

1. TITLE : Social Geography

Optional under the Faculty of Science

6. YEAR OF IMPLEMENTATION :

Revised Syllabus will be implemented from June 2020 onwards.

7. PREAMBLE

This curriculum focuses on the understanding of social geography of the discipline. This paper is specially designed to cater to social study of the students by imparting knowledge about the society. Social geography is the branch of human geography that is most closely related to social problems and well being, dealing with the relation of social phenomena and its spatial components. The different conceptions of social geography have been overlapping with other sub-fields of geography. It was basically applied as a synonym for the search for patterns in the distribution of social groups and there problems.

14. GENERAL OBJECTIVES OF THE COURSE

- 1) Understanding the concept, origin, nature and scope of social geography.
- 2) To study the migration, technological and occupational changes in India peoples.
- 3) An analysis of different social categories and their spatial distribution.
- 4) To understand the geographies of social welfare and well being.

4.1 COURSE OUTCOMES

- 6) In depth understanding the problems and prospects of society in India.
- 7) The students are fully aware about the migration, technological and occupational changes in India peoples.
- 8) Detailed knowledge about the social categories and communities in world.
- 9) Understanding concepts of social well being and welfare.

5. DURATION

- The course shall be a full time course
- The duration of course shall be of one year (Sem. – V)

6. PATTERN:

Pattern of Examination Will Be Semester

7. FEE STRUCTURE:

As per Government /University rules.

[Note: - In case of any New degree/Program started at university/college, the respective colleges/ Dept. should submit a separate proposal of fee structure to BOS office. (i. e. Tution Fee & Laboratory Fee, if any.)

9. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course / programme concerned.)

10. STRUCTURE OF COURSE = 50 marks

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER FIFTH

Paper No.

Title Marks

DSE-E108 or IX, Social Geography

50

12. SCHEME OF TEACHING AND EXAMINATION

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	Theory	Term Work	Total
1	Social Geography	04	04	00	04	40	10	50

15. SCHEME OF EXAMINATION :

- The examination shall be conducted at the end of each semester.
- The Theory paper shall carry 50 marks.
- The term work shall carry 10 marks.
- The evaluation of the performance of the students in theory papers shall be on the basis of semester Examination of 50 marks.

- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

18. STANDARD OF PASSING: As Prescribed under rules & regulation for each degree/ programme.

19. NATURE OF QUESTION PAPER AND SCHEME OF MARKING :-

(Unit wise weightage of marks should also be mentioned)

Semester V	Marks
Qus : 1) Objective Type Question (Multiple Choice)	05
Qus : 2) Short Notes (Any three out of five)	15
Qus: 3) Detailed Answer Type Question (Any two out of three)	20

**18. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS-
(FOR REVISED SYLLABUS)**

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
1	Research Methodology	IX	Social Geography	E108 or Paper No. IX

17. SPECIAL INSTRUCTIONS, IF ANY.

**NEW/REVISED CBCS PATTERN SYLLABUS FOR B. A. - Part III and B. Ed.
Geography Elective Discipline Specific DSE –E108 or Paper No. IX
(Introduced from June 2020 onwards)**

Semester – V

(v) **Paper – E108 or IX**

(vi) **Title of Paper: Social Geography**

Module	Teaching Hours	Credit
Module-I: Introduction of Social Geography	15	(1)
1.1 Definitions, Nature and Scope of Social Geography		
1.2 Sub-branches of Social Geography		
1.3 Relationship between Social Geography and other Social Sciences		
1.4 Approaches and Significance of Social Geography		
Module-II: Peopling Process in India	15	(1)
2.1 Educational Changes		
2.2 Technological Changes		
2.3 Occupational Changes		
2.4 Migration		
Module-III: Social Categories and their Spatial Distribution	15	(1)
3.1 Race		
3.2 Religions		
3.3 Gender		
Module-IV: Geographies of Welfare, Well Being and Social Problems in India	15	(1)
4.1 Concept of Social Welfare and Well being		
4.2 Healthcare and Housing Facilities		
4.3 Slums		
4.4 Communal Conflicts and Crime		

References

1. Ahmed A., 1999: Social Geography, Rawat Publications.
2. Casino V. J. D., Jr., 2009) Social Geography: A Critical Introduction, Wiley Blackwell.
3. Cater J. and Jones T., 2000: Social Geography: An Introduction to Contemporary Issues, Hodder Arnold.

4. Holt L., 2011: Geographies of Children, Youth and Families: An International Perspective, Taylor & Francis.
5. Panelli R., 2004: Social Geographies: From Difference to Action, Sage.
6. Rachel P., Burke M., Fuller D., Gough J., Macfarlane R. and Mowl G., 2001: Introducing Social Geographies, Oxford University Press.
7. Smith D. M., 1977: Human geography: A Welfare Approach, Edward Arnold, London.
8. Smith D. M., 1994: Geography and Social Justice, Blackwell, Oxford.
9. Smith S. J., Pain R., Marston S. A., Jones J. P., 2009: The SAGE Handbook of Social Geographies, Sage Publications.
10. Sopher, David (1980): An Exploration of India, Cornell University Press, Ithaca.
11. Valentine G., 2001: Social Geographies: Space and Society, Prentice Hall

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

**Revised Syllabus For
B. A. Part-III & B. A. B. Ed.
Political Geography
Or
Geography of Health and Wellbeing**

CBCS PATTERN

(Subject to the modifications to be made from time to time)
Syllabus to be implemented from June 2020 onwards

**Accredited By NAAC
With 'A' Grade
New/Revised Syllabus For
Bachelor/Master of**

B. A. Part – III and B. A. B. Ed.
DSC (Discipline Specific Core Course) – E232 or Paper No. XII
Geography (Political Geography), Sem.-VI

Syllabus to be implemented from June 2020 onwards

A] Ordinance and Regulations:-

(As applicable to degree/program)

B] Shivaji University, Kolhapur

New/Revised Syllabus For **Bachelor of -Arts.**

1. TITLE: Subject – POLITICAL GEOGRAPHY

Optional/Compulsory/Additional/IDS under the Faculty of Science

2. YEAR OF IMPLEMENTATION: - New/Revised Syllabi will be implemented from June 2020 onwards.

3. PREAMBLE:-

Political Geography is the most important branch of Human Geography. But after 1960 this branch of Geography becomes popular due to its own significance in the World. Therefore, it has been introduced to B. A. Part-III. In this course the fundamental as well basic concepts and knowledge of Political Geography have been included. The present syllabus of this course includes nature, scope,

4. GENERAL OBJECTIVES OF THE COURSE/ PAPER/:

(As applicable to the Degree /Subject- Paper concerned)

- i) To study the Political geography as a fundamental branch of Human Geography.
- ii) To familiarize the students with the basics and fundamental concepts and theories of Political Geography.
- iii) To aware the students about resource conflicts and politics of displacement.

4.1 COURSE OUTCOME

- i) The students are fully aware about the Political geography as a fundamental branch of Human Geography.
- ii) The students are familiarized with the basics and fundamental concepts and theories of Political Geography.
- iii) The students are aware about resource conflicts and politics of displacement.

5. DURATION

- The course shall be a full time course.
- The duration of course shall be of Three years, as applicable to the respective degree.

6. PATTERN:-

Pattern of Examination will be Semester.

7. FEE STRUCTURE :-

As per Government /University rules.

[Note: - In case of any New degree/Program started at university/college, the respective colleges/ Dept. should submit a separate proposal of fee structure to BOS office. (i. e. Tution Fee & Laboratory Fee, if any.)

8. ELIGIBILITY FOR ADMISSION:-

As per eligibility criteria prescribed for respective degree program and the merit in the qualifying examination (i.e. Entrance Examination), if any.

9. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course / programme concerned.)

10. STRUCTURE OF COURSE = 50 marks

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission/revision of first year syllabus.)

SEMESTER SIXTH

Paper No.

DSC-E232 or Paper No. XII, Political Geography

Title Marks

50

11. SCHEME OF TEACHING:

The scheme of teaching and examination should be given as applicable to the course / paper concerned.

Sr. No.	Subject/Papers	Teaching Scheme Per Week				Examination Scheme Sr. (Marks)			
		L	T	P	Total	Theory	Practical	Term Work	Total
1	Political Geography	04	04	-	04	40	-	10	50

12. SCHEME OF EXAMINATION:

- The examination shall be conducted at the end of each term for semester pattern.
- The Theory paper shall carry 40 marks (as applicable to the course).
- The term work shall carry 10 marks.
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 40 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

13. STANDARD OF PASSING:

As per Prescribed rules and regulation for each degree / programme.

14. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:

Common Nature of Paper as per Social Sciences Faculty

15. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS)

Sr. No.	Title of Old Paper	Old paper No.	Title of New paper	New Paper No.
1	Political Geography	XII	Political Geography	E 232 or XII

16. SPECIAL INSTRUCTIONS, IF ANY – Nil

**NEW/REVISED SYLLABUS FOR
B. A. Part-III and B. A. B. Ed. Geography
(Syllabus to be implemented from June 2020 onwards)
Semester - VI**

(i) DSC – E 232 or XII

(ii) Title of Paper :- POLITICAL GEOGRAPHY

(iii) Specific Objectives:- -----

(iv) A brief note :- (On expected level of study from examination and assessment point of view):- -----

Module	Teaching Hours	Credits
Module I: Introduction to Political Geography	12 Lectures	01
1.1 Definition of Political Geography		
1.2 Nature and Scope of Political Geography		
1.3 Historical Development of Political Geography		
1.4 Significance of Political Geography		
Module II: Concepts in Political Geography	18 Lectures	01
2.1 State		
2.2 Nation		
2.3 Boundary		
2.4 Frontiers		
Module III: Theories in Political Geography	12 Lectures	01
3.1 Hartland Theorie - H. J. Mackinder		
3.2 Rimland Theorie – N. J. Spykeman		
Module IV: Resource Conflicts and Politics of Displacement	18 Lectures	01
4.1 Krishna Water Conflict (Inter Satate)		
4.2 Ganga Water Conflict (International)		
4.3 Issues of Relief, Compensation and Rehabilitation: Sardar Sarovar		
4.4 Issues of Relief, Compensation and Rehabilitation: Chandoli Projects		

Reading List

1. Adhikari, S. (1997) : Political Geography, Rawat Publications, Jaipur.
2. Disshit, R. D. (1985) : Political Geography, AContemporaryPerspective, McGraw

Hill, New Delhi

3. Dwivedi, R. L. (1996): Political Geography, ChaitanyaPrakashan, Allahabad.
4. Muir, Richard (1995): Modern Political Geography, Macmillan, London.
5. Pounds, N. J. G. (1972): Political Geography 2nd Ed. McGraw Hill, N. Y.
6. Sharma, T. C. : Political Geography.
7. Agnew J., 2002: Making Political Geography, Arnold.
8. Agnew J., Mitchell K. and Toal G., 2003: A Companion to Political Geography, Blackwell.
9. Cox K. R., Low M. and Robinson J., 2008: The Sage Handbook of Political Geography, Sage Publications.
10. Cox K., 2002: Political Geography: Territory, State and Society, Wiley-Blackwell
11. Gallaher C., et al, 2009: Key Concepts in Political Geography, Sage Publications.
12. Glassner M., 1993: Political Geography, Wiley.
13. Jones M., 2004: An Introduction to Political Geography: Space, Place and Politics, Routledg.
14. Mathur H M and M M Cernea (eds.) Development, Displacement and Resettlement – Focus on Asian Experience, Vikas, Delhi
15. Painter J. and Jeffrey A., 2009: Political Geography, Sage Publications.
16. Taylor P. and Flint C., 2000: Political Geography, Pearson Education.
17. Verma M K (2004): Development, Displacement and Resettlement, Rawat Publications, Delhi
18. Hodder Dick, Sarah J Llyod and Keith S McLachlan (1998), Land Locked States of Africa and Asia (vo.2), Frank Cass

Accredited By NAAC
With 'A' Grade
New/Revised Syllabus For
B. A. Part – III and B. A. B. Ed.
DSE-E232 (Discipline Specific Elective Course/Paper No.XII
Geography (Geography of Health and Wellbeing), Semester-VI
Syllabus to be implemented from June 2020 onwards

A] Ordinance and Regulations:-

(As applicable to degree/program)

B] Shivaji University, Kolhapur

New/Revised Syllabus for Bachelor of Arts and B. A. B. Ed.

1. TITLE: **Geography of Health and Wellbeing**
Optional/Compulsory/Additional/**DSE**

2. FACULTY: Faculty of Science.

3. YEAR OF IMPLEMENTATION:

New/Revised Syllabi will be implemented from June 2020 onwards.

4. PREAMBLE:

Geography of Health and Wellbeing considers the significance for physical and mental health of interactions between people and their environment. This branch of Geography becomes popular due to its significance. Therefore, it has been introduced to B. A. Part-III. In this course the fundamental concepts and knowledge of Geography of Health and wellbeing have been included. The present syllabus of this course includes perspectives of health, pressure on environmental quality and health, exposure and health risks, health and disease patterns.

5. **GENERAL OBJECTIVES OF THE COURSE/PAPER:**

(As applicable to the Degree/Subject-Paper concerned)

- i) To know Geography of Health and Wellbeing.
- ii) To study the fundamental concepts health and environmental trends.
- iii) To study the pressure on environmental quality and health.
- iv) To study the exposure and health risks.
- iv) To understand the health and various disease patterns in environmental context with special reference to India.

6. **COURSE OUT COME:**

After the completion of course, the students will have ability to:

1. Understand various geographical perspectives related to human health.
2. Create awareness of human health and environmental trends.
3. The students are familiar with geographical background of diseases and their regional pattern.
4. Detail understanding of pressure on environmental quality and human health.
5. Create awareness among the students of malnutrition and hygiene.
6. The students are familiar with the process of health care planning in India.
7. The students are aware about impact of climate change on human health.

6. DURATION

- The course shall be a full time course.
- The duration of course shall be of Three years, as applicable to the respective degree.

8. PATTERN:

Pattern of Examination will be Semester.

8.FEE STRUCTURE:

As per Government/University rules.

[Note: In case of any New degree/Program started at university/college, the respective colleges/Dept. should submit a separate proposal of fee structure to BOS office.(i.e. Tution Fee & Laboratory Fee, if any.)]

9. ELIGIBILITY FOR ADMISSION:-

As per eligibility criteria prescribed for respective degree programme and the merit in the qualifying examination (i.e. Entrance Examination), if any.

10.MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English or Marathi. (as applicable to the course/programme concerned.)

11.STRUCTURE OF COURSE = 50 marks

(Note–The structure & title of papers of the degree as a whole should be submitted at The time of submission/revision of first year syllabus.)

SEMESTER SIXTH Paper No.

Course E 232/Paper- XII, Geography of Health and Wellbeing

TitleMarks
50

12. SCHEME OF TEACHING AND EXAMINATION:

The scheme of teaching and examination should be given as applicable to the course /paper concerned.

Sr. No.	Subject/Papers	Teaching Scheme Per Week				Examination Scheme (Marks)			
		L	T	P	Total	Theory	Practical	Term Work	Total
1	Geography of Health and Wellbeing	04	04	-	04	50	-	10	50

13. Scheme of Examination:

- The examination shall be conducted at the end of each academic year.
- The Practical paper shall carry 50 marks.
- The term work shall carry 10 marks.
- The evaluation of the performance of the student in practical papers shall be on the basis of annual practical examination of 50 marks.
- Question Paper will be set in the view of the / in accordance with the entire syllabus and preferably covering each unit of syllabi.

14. Standard of Passing:

(As prescribed under rules & regulation for each degree / program)

15. Nature of Question Paper and Scheme of Marking:

(Unit wise weightage of marks should also be mentioned)

16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS (For revised Syllabus)

Sr. No.	Title of Old Paper	Title of New Paper
1	Political Geography (Paper -I)	Geography of Health and Wellbeing E232 (Paper No. XII)

17. Special Instructions, If any.

NEW/REVISED SYLLABUS FOR
B. A. Part-III and B. A. B. Ed. Geography
(Syllabus to be implemented from June 2020 onwards)
Semester-VI

- (i) Course/Paper No. E232 or XII
(ii) Title of Paper:- GEOGRAPHY OF HEALTH AND WELLBEING
(iii) Specific Objectives:-----
(iv) A brief note:-

(On expected level of study from examination and assessment point of view):- -----

Module	Teaching Hours	Credits
Module I: Perspectives on Health	15 Lectures	01
1.1 Definition and scope		
1.2 Trends and applications		
1.3 Linkages with environment and development		
1.4 Health and Environmental trends: Population dynamics, urbanization, poverty and inequality		
Module II: Pressure on Environmental Quality and Health	15 Lectures	01
2.1 Human activities and environmental pressure		
2.2 Land use and agricultural development		
2.3 Industrialization		
2.4 Transport		
Module III: Exposure and Health Risks	15 Lectures	01
3.1 Air and water pollution		
3.2 Household wastes		
3.3 Housing		
3.4 Workplace		
Module IV: Health and Disease Patterns	15 Lectures	01
(In Environmental Context with special reference to India)		
4.1 Communicable diseases and their regional pattern – AIDS and Dengue		
4.2 Lifestyle related diseases and their regional pattern – Cancer and Diabetes		
4.3 Climate change and human health		
4.4 Food production and nutrition		

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1. Akhtar Rais (Ed.), 1990: Environment and Health Themes in Medical Geography, Ashish Publishing House, New Delhi.
2. Avon Joan L. and Jonathan A Patzed., 2001: Ecosystem Changes and Public Health, Baltimore, John Hopling Unit Press (ed).
3. Bradley, D., 1977: Water, Wastes and Health in Hot Climates, John Wiley Chichester.
4. Brown T., S. McLafferty, and G. Moon. 2009. *A companion to health and medical geography*. Chichester, UK: Wiley-Blackwell. DOI: [10.1002/9781444314762](https://doi.org/10.1002/9781444314762)
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9. Gatrell A., and S. Elliott. 2009. *Geographies of health*. Chichester, UK: Wiley-Blackwell.
10. Gesler, W., and W. Kearns. 2002. *Culture place and health*. Critical Geographies. London: Routledge.
11. Hardham T. and Tannav M., (eds): Urban Health in Developing Countries; Progress, Projects, Earthgoan, London.
12. Jones, K., and G. Moon. 1987. *Health disease and society*. London: Routledge.
13. Meade, M., and R. Earickson. 2000. *Medical geography*. New York: Guildford.
14. Murray, C. and A. Lopez, 1996: The Global Burden of Disease, Harvard University Press.
15. Moeller Dadewed., 1993: Environmental Health, Cambridge, Harvard University Press.
16. Phillips, D. and Verhasselt, Y., 1994: Health and Development, Routledge, London.
17. Shelar, S.K., 2012: Introduction to Medical Geography, Chandralok Pub., Kanpur.
18. Tromp, S., 1980: Biometeorology: The Impact of Weather and Climate on Humans and their

Environment, Heydon and Son.

19. मस्कीडी., भैसेएस., २०१४, आरोग्यभूगोल, अथर्वप्रकाशन, पुणे

Websites:

e-PGPathshala: <https://epgp.inflibnet.ac.in/>

MOOCS - NPTEL: <https://nptel.ac.in/>

MOOCS - SWAYAM: <https://swayam.gov.in/>

National Digital Library of India: <https://ndl.iitkgp.ac.in/>

Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

Draft Syllabus

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B. A. Part-III & B. A. B. Ed.

Geography (Practical)

(Basics of Map Making and Map Interpretation)

CBCS PATTERN

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2020 onwards

**A) Ordinance and Regulations
(As applicable to degree)
B) Shivaji University, Kolhapur.
Revised Syllabus for
Bachelor of Arts and B. A. B. Ed.
DSE-E233 (Paper XIII or Practical Paper -I)**

1. Title: Basics of Map Making and Map Interpretation

Optional Subject under the Faculty of Science

2. Year of Implementation: Revised Syllabi will be implemented from June 2020 onwards.

3. Preamble:

Practical Work is the most important part of Geography. Map is an indispensable tool in Geographical Studies & Research activities. The present syllabus of this paper includes study of maps and their types, Map Projections, S.O.I. Topomaps, I.M.D. Weather Maps, and Cartographic Techniques. In the process of development of science and technology, the changing nature of subject of geography will make aware to the student about the map work and map interpretation. This will further help to improve the use of maps, cartographic techniques and methods in teaching-learning and research work.

4. General objectives of the Paper:

(As applicable to the – paper concerned)

- 1) To introduce the students with the importance of map making and map Interpretation.
- 2) To make the students to understand map, concept of scale and concept of projection.
- 3) To provide training in analysis of landforms.
- 4) To give basic information to the students about S.O.I. topomaps and I.M.D. weather maps.
- 5) To develop the skill of map Interpretation among the students.
- 6) To familiarize the students with the different cartographic techniques and methods used for representation of demographic and physio- socio-economic database.

5. COURSE OUTCOMES

1. In depth understanding the map, concept of scale and projection.
2. Detailed knowledge about the analysis of landforms and its identification.

3. The students are deeply aware about basic information to the students about S.O.I. topomaps and I.M.D. weather maps and obtained the skills about map interpretation.
4. The students are deeply familiar with different cartographic techniques and methods used for representation of demographic and physio- socio-economic database

6. Duration:

- The course shall be a full time course.
- The duration of course shall be of three years, as applicable to the respective degree.

7. Pattern:

Pattern of Examination will be **ANNUAL**.

8. Fee Structure:

As per Government / University rules.

9. Eligibility for Admission:

As per eligibility criteria prescribed for respective degree program and the merit in the qualifying examination, if any.

10. Medium of Instruction:

The medium of instruction shall be in English or Marathi. (As applicable to the course / programme concerned)

11. Structure of Course: Theory & Practical's

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission / revision of first year syllabus.)

Third Year (Semester VI) Paper No. XIII

Sr. No.	Subjects/Papers	Theory	Practical	Total marks
1	Basics of Map Making and Map Interpretation	-----	100	100

12. Scheme of Teaching and Examination:

(The Scheme of teaching and examination should be given as applicable to the course / paper concerned)

B. A. Part –III

Sr. No.	Subjects/Papers	Theory	Examination scheme (Marks)
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1	Basics of Map	L	T	P	Total	Practical	Term Work	Total (Annual)
	Making and Map Interpretation	---	---	10	10	100	---	100

13. Scheme of Examination:

- The examination shall be conducted at the end of each academic year.
- The Practical paper shall carry 100 marks.
- The evaluation of the performance of the student in practical papers shall be on the basis of annual practical examination of 100 marks.
- Question Paper will be set in the view of the / in accordance with the entire syllabus and preferably covering each unit of syllabi.

14. Standard of Passing:

(As prescribed under rules & regulation for each degree / program)

15. Nature of Question Paper and Scheme of Marking:

(Unit wise weightage of marks should also be mentioned)

16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS

(For revised Syllabus)

Sr. No.	Title of Old Paper	Title of New Paper
1	Map Work & Map Reading Paper XIII (Practical Paper -I)	Basics of Map Making and Map Interpretation E 233 or Paper XIII (Practical Paper - I)

17. Special Instructions, If any.

Revised Syllabus for B. A. – III and B. A. B. Ed.

(Introduced from June 2020 Onwards)

Revised Syllabus for

B. A. Part III and B. A. B. Ed. Geography

DSE-E233 or Paper No. XIII (Practical Paper -I)

Title of Paper: Basics of Map Making and Map Interpretation

Unit – 1 : Introduction to Scales and Map:

Periods 50

Marks (15)

1.1 Scale

1.1.1 Meaning and Definition,

1.1.2 Methods of Representation of scale - Verbal, Numerical and Graphical.

1.1.3 Scale Conversion

1.1.4 Construction of Graphical Scale –

i) Simple (Plane Scale)

ii) Time and Distance Scale

iii) Diagonal Scale

1.2 Map

1.2.1 Map – Definition , Elements

1.2.2 Classification of Maps: Based on Scale and Purpose

1.2.4 Significance and uses of Maps

Unit 2: Map Projection

Periods 50

Marks (15)

2.1 Definition, Classification of Projections:

a) Based on the methods of Construction: Perspective and Non-perspective

b) Based on Developable Surface used: Conical, Cylindrical, Zenithal,

Conventional.

c) Based on Position of Tangent Surfaces: Polar, Equatorial (normal), Oblique.

d) Based on Position of view point or light: Gnomonic, Stereographic,

Orthographic

e) Based on Preserved qualities: i) Equal area projection (Homolographic)

ii) Orthographic Projection

iii) Azimuthal Projection (True Bearing

Projection)

2.2 Graphical Construction of the following Projections with Properties and Use:

- i) Zenithal Polar Gnomonic Projection
- ii) Zenithal Polar Stereographic Projection
- iii) Zenithal polar Equidistant Projection
- iv) Zenithal Polar Equal Area Projection
- v) Simple Conical Projection with one standard Parallel
- vi) Bonne's Projection
- vii) Mercator's Projection and Reference to Universal Transverse Mercator (UTM) Projection

Unit – 3 : Profile Analysis

Periods 50

Marks (15)

3.1 Slope and Gradient

3.1.1 Types of Slope: Gentle, Steep, Even, Uneven, Convex, Concave, Terraced.

3.1.2 Methods of Relief Representation

- i. Qualitative :- Hachures, Hill shading, Layer Tint
- ii. Quantitative:- Contours, Form lines, Spot Heights, Bench Marks, Triangulation Mark, Relative Height

3.1.2 Expression of Slopes: a) Gradient b) Degree c) Per Cent d) Mills

3.1.3 Representation of Relief by Contours: Hill, Mountain, Ridge, Cliff, Saddle, Plateau, Knoll, Spur, Col or Pass, Volcanic Col or Crater, Gorge, 'V' Shaped Valley, Waterfall, 'U' Shaped Valley, Cirque, Hanging Valley, Ria Coast, Fiord Coast, Sea cliff.

3.2 Profiles

3.5.1 Superimposed Profile

3.5.2 Composite Profile

3.5.3 Projected Profile

3.5.4 Longitudinal Profile

Unit – 4 : Topographical Maps

Periods 50

Marks (15)

4.1 Development of Survey of India

4.2 Types or Indexing of S.O.I. Topographical Maps

4.3 Signs, Symbols and Colors used in SOI Toposheet

4.4 Interpretation of S.O.I.'s Topographical Map (Mountain, Plateau and Plain)

- a) Marginal Information
- b) Physical environment: Relief, Drainage and Vegetation
- c) Cultural environment: Settlements, Transportation and Communication, Irrigation.
- d) Land Use

Unit 5: Weather Instruments and IMD Maps

Periods 50

Marks (15)

5.1 Study of weather Instruments with reference to Principle, Mechanism, and Function

- a) Thermograph
- b) Barograph
- c) Dry and Wet Bulb Thermometer
- d) Wind vane
- e) Cup Anemometer
- f) Rain Gauge.

5.2 Isobaric Patterns: Cyclone, Anticyclone, Col, Ridge, Secondary Depression.

5.3 Sign and Symbols used in Indian Daily Weather Maps.

5.4 Interpretation of Indian Daily Weather Maps (Rainy, Winter and Summer)

Marginal Information, Pressure, Winds, Clouds, Rainfall, Other Conditions, Sea Condition, Temperature departure from normal.

Unit 6 : Representation of Statistical Data

Periods 50

Marks (15)

6.1 Graphs and Diagrams

6.1.1 Diagrammatic Data Presentation:

- i) Line Graph (Simple, Multiple and Band Graph)
- ii) Bar Graph (Simple, Multiple and Compound)
- iii) Pie Diagram

6.2 Thematic Mapping Techniques:

- i) Proportional Circle
- ii) Choropleth Map
- iii) Dot Map
- iv) Isopleths

6.3 Cartographic Overlays:

- i) Point

- ii) Line
- iii) Areal Data

Unit 7 Journal and Viva Voce

Marks 10

Note :

1. Use of stencils, log tables, computer and calculator is allowed.
2. Journal should be completed and duly certified by practical in-charge and Head of the Department.
3. Int. and Ext examiner should set jointly the question paper for each batch.

Reference:

1. Bygoot, J: An Introduction to Mapwork and Practical Geography, University Tutorial, London 1964.
2. Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 1998
3. Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept Publishing Company, New Delhi, 2000
4. Monkhouse F.J. and Wilkison, H.R.: Maps and Diagrams, Mathuen. London, 1971.
5. Negi. , Dr. Balbir Singh : Practical Geography, Kedar Nath Ram Nath, Meerut, Delhi.
6. Raisz, E.: Principals of Cartography, McGraw Hill Book Com., Inc, New York, 1962.
7. Robinson, A.H. and Sale, S.D.: Elements of Cartography, John Witey and Sons, Inc, New York, 1969.
8. Saha, Pijushkanti and Basu Partha : Advanced Practical Geography – A Laboratory Manual Books and Allied (P) Ltd, Kolkata. 2010.
9. Sarkar, Ashis : Practical Geography: A systematic Approach, Orient Longman limited, Calcutta, 1997.
10. Singh, Gopal : Map work and Practical Geography Vikas Publishing House Pvt. Ltd. New Delhi, 1996.
11. Singh, R and Kanaujia, L.R.S.: Map Work and Practical Geography, Central Book Depot, Allahabad.
12. Singh, R. L. and Rana P.B. : Elements of Practical Geography, Kalyani Publishers, New Delhi – Ludhiana, 1998.
13. Aher A. B., Chodhari A. P. & Bharambe S. N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015

15. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
16. P. Saha and P. Basu (2006): Advanced Practical Geography, Books and Allied Publication, Kolkata, India.
17. Khullar, Essentials of Practical Geography, New Academic Publishing Co, India.
18. Singh L R (2011): Fundamentals of Practical Geography
19. Robinson Rep. (2010): Elements of Cartography 6/e
20. Khan Za (1998): Text Book of Practical Geography
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Draft Syllabus

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B. A. Part-III & B. A. B. Ed.

Geography (Practical)

(Advanced Tools, Techniques & Field Work)

CBCS PATTERN

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2020 onwards

**A) Ordinance and Regulations
(As applicable to Degree)
B) Shivaji University, Kolhapur.
Revised Syllabus for**

**Bachelor of Arts and B. A. B. Ed.
DSE-E234 or Paper XIII (Practical Paper -II)**

Syllabus to be implemented from June 2020 onwards

1. Title: Advanced Tools, Techniques & Field Work

Optional Subject under the Faculty of Science

2. Year of Implementation: Revised Syllabi will be implemented from June 2020 onwards.

3. Preamble:

Modern science & technology have gained momentum. The last couple of Decades have witnessed a sudden expansion of knowledge. In the process of development of science and technology, the changing nature of subject of Geography will make aware to the students about the advanced techniques such as Remote Sensing, GIS, and GPS. The application of computers has revolutionized the use of methods & techniques. The present syllabus of this paper includes study of Aerial Photographs, Remote Sensing, GIS, Application of Computer and use of field work in Geography. This will further help to improve the use of advanced techniques and methods in teaching-learning and research work.

4. General objectives of the Paper:

- 1) To introduce the students with the importance of field work and advanced Techniques in Geography.
- 2) To provide training in application of modern tool and techniques in Geography.
- 3) To enable the students to understand the use of computer for analysis of Geographical data.
- 4) To enhance the skill of the students in instrumental survey.
- 5) To give basic information to the students about Aerial Photographs, Remote Sensing, GIS and GPS.

6. COURSE OUTCOMES

5. In depth understanding the importance of field work and advanced Techniques in Geography.
6. The students are trained to implement modern tool and techniques in Geography.
7. Detailed knowledge about the use of computer for analysis of Geographical data.

8. The students are deeply aware about the basics and trained in instrumental survey.
9. The students are deeply familiar with computer, GIS, GPS and Remote Sensing.

6. Duration:

- The course shall be a full time course.
- The duration of course shall be of three years, as applicable to the respective degree.

7. Pattern:

Pattern of Examination will be ANNUAL.

8. Fee Structure:

As per Government / University rules.

9. Eligibility for Admission:

As per eligibility criteria prescribed for respective degree program and the merit in the qualifying examination, if any.

10. Medium of Instruction:

The medium of instruction shall be in English or Marathi. (As applicable to the course / programme concerned)

11. Structure of Course: Theory & Practical's

(Note – The structure & title of papers of the degree as a whole should be submitted at the time of submission / revision of first year syllabus.)

Third Year (Semester VI) Paper No. XIII

Sr. No.	Subjects/Papers	Theory	Practical	Total marks
1	Advanced Tools, Techniques & Field Work	----	100	100

12. Scheme of Teaching and Examination:

(The Scheme of teaching and examination should be given as applicable to the course / paper concerned)

B. A. part –III

Sr. No.	Subjects/Papers	Theory				Examination scheme (Marks)		
		L	T	P	Total	Practical	Term Work	Total (Annual)
1	Advanced Tools, Techniques & Field Work	---	---	10	10	100	---	100

13. Scheme of Examination:

- The examination shall be conducted at the end of each academic year.

- The Practical paper shall carry 100 marks.
- The evaluation of the performance of the student in practical papers shall be on the basis of annual practical examination of 100 marks.
- Question Paper will be set in the view of the / in accordance with the entire syllabus and preferably covering each unit of syllabi.

14. Standard of Passing:

(As prescribed under rules & regulation for each degree / program)

15. Nature of Question Paper and Scheme of Marking:

(Unit wise weightage of marks should also be mentioned)

16. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS

(For revised Syllabus)

Sr. No.	Title of Old Paper	Title of New Paper
1	Advanced Tools, Techniques & Field Work	Advanced Tools, Techniques & Field Work (DSE-E234 or Paper No. XIV)

17. Special Instructions, If any.

Revised Syllabus for B. A. – III and B. A. B. Ed.

(Introduced from June 2020 Onwards)

Revised Syllabus for

B. A. (Part III) Geography

DSE-E234 or Paper No. XIV (Practical Paper -II)

(ii) Title of Paper - Advanced Tools, Techniques & Field Work (100 Marks)

Unit: 1 Introduction to Computer

Lectures- 50

Marks-10

1.1: Computer Fundamentals: Definition, Structure, Characteristics, Hardware & Software.

1.2: Application of computer in geography

1.2.1: Construction of Line Graphs, Bar Graphs

1.2.2: Construction of Pie Diagram and Scatter Diagram.

1.3: Significance and application of Internet in Geographical Studies.

Unit: 2 Remote Sensing

Lectures- 50

Marks-15

2.1 Definition, Components and Development of Remote Sensing.

2.2 Principles of Remote Sensing: EMR, Sensors and Platforms.

2.3 Application of Remote Sensing in Geography.

2.4 Aerial photographs and Satellite imagery: Definition, types and difference between them.

2.5 Determination of Photo Scale.

2.6 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery.

Unit: 3 GIS and GNSS (GPS)

Lectures- 50

Marks-15

3.1 Geographical Information System (GIS)

3.1.1 Definition and components

3.1.2 GIS Data Structure: Types (spatial and non-spatial), Raster and Vector data

3.1.3 Georeferencing, Digitization, Map Layout Preparation

3.1.4 Application of GIS in Geography: Land use or Land Cover, Urban Sprawl Analysis, Forests Monitoring

3.2 Global Navigation Satellite System (Global Positioning System)

3.2.1 Definition and components

3.2.2: Application of GPS in Geography

3.2.3 Field work in GPS: Determining latitude, longitude and altitude

3.3: Exercise with Google earth Program.

Unit :4 Statistical methods and techniques

Lectures- 60

Marks-15

4.1: Geographical Data:

4.1.1 Spatial and Temporal Data

4.1.2 Individual, Discrete and Continuous Data

4.2 Analysis of statistical data by the following methods and techniques

4.1.1: Measures of Central Tendency: Mean, Median and Mode

4.1.2: Dispersion: Mean deviation, Standard deviation and Quartile Deviation.

4.1.3: Association and Correlation: Simple Regression, Rank Correlation, and Karl Pearson's Method (Product Moment)

4.1.4: Analysis of Time Series: Semi-average Method and Moving average

method

Unit :5 Surveying

Lectures- 60

Marks-15

5.1 Introduction to Survey: Meaning and types

5.2 Preparation of plans of the given area with the following survey method

(Any one methods among them)

A Theodolite survey

B Dumpy Level survey

C Plane Table survey (Radial, Intersection, and Traverse method)

D Abony Level Survey.

5.3 Preparation of plans Prismatic compass survey (Radical, Intersection and Traverse method)

5.3.1 Types and conversion of bearings.

5.3.2 Correction of bearing.

Unit:6 Project work based on field work any one of below

Marks-10

Resource survey, Population survey, Agricultural survey, Settlement Survey, Environmental issues, Industrial survey, Health survey

Unit:7 Study Tour

Marks-10

Maximum 15 days at Geographical Interest in India and preparation of tour report.

Unit:8 Journal and Viva Voca
Marks 10

Note :

1. Use of stencils, log tables, computer and calculator is allowed.
2. Journal should be completed and duly certified by practical in-charge and Head of the Department.
3. Int. and Ext examiner should set jointly the question paper for each batch.

Reference:

21. Lo C. P., Albert K. W. Yeung, (2011): Concepts and Techniques of Geographic Information Systems, PHI Learning Private Limited, New Delhi-110001.
22. Bygoot, J: An Introduction to Mapwork and Practical Geography, University Tutorial, London 1964.
23. London 1964.
24. Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 1998
25. Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept Publishing Company, New Delhi, 2000
26. Monkhouse F.J. and Wilkison, H.R.: Maps and Diagrams, Mathuen. London, 1971.
27. Negi. , Dr. Balbir Singh : Practical Geography, Kedar Nath Ram Nath, Meerut, Delhi.
28. Raisz, E.: Principals of Cartography, McGraw Hill Book Com., Inc, New York, 1962.
29. Robinson, A.H. and Sale, S.D.: Elements of Cartography, John Witey and Sons, Inc, New York, 1969.
30. Saha, Pijushkanti and Basu Partha : Advanced Practical Geography – A Laboratory Manual Books and Allied (P) Ltd, Kolkata. 2010.
31. Sarkar, Ashis : Practical Geography: A systematic Approach, Orient Longman limited, Calcutta, 1997.
32. Singh, Gopal : Map work and Practical Geography Vikas Publishing House Pvt. Ltd. New Delhi, 1996.
33. Singh, R and Kanaujia, L.R.S.: Map Work and Practical Geography, Central Book Depot, Allahabad.
34. Singh, R. L. and Rana P.B. : Elements of Practical Geography, Kalyani Publishers, New Delhi – Ludhiana, 1998.
35. Aher A. B., Chodhari A. P. & Bharambe S. N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015

36. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
 37. P. Saha and P. Basu (2006): Advanced Practical Geography, Books and Allied Publication, Kolkata, India.
 38. Khullar, Essentials of Practical Geography, New Academic Publishing Co, India.
 39. Singh L R (2011): Fundamentals of Practical Geography
 40. Robinson Rep. (2010): Elements of Cartography 6/e
 41. Khan Za (1998): Text Book of Practical Geography
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Draft Syllabus

SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962

NAAC 'A' Grade

Syllabus For

B.Com. Part-I

Geography

CBCS Pattern

Sem-I & Sem-II

Introduced from June 2018 and Onwards

(Subject to the modifications will be made from time to time)

AECC (ABILITY ENHANCEMENT COMPULSORY COURSE)

COMMERCIAL GEOGRAPHY- Paper I

June-2018 Onwards

Marks – 50 Credits : 4

GENERAL OBJECTIVES OF THE PAPER:

The objective of this course is to introduce Commercial Geography, Conservation of Resources & sustainable economic development, Classification of Economic activities and Globalization & Indian Economy.

LEARNING OUTCOMES – The student should be knowing the bases of commercial and marketing activities related to the earth.

PATTERN:

Pattern of Examination will be Semester for Theory.

ELIGIBILITY FOR ADMISSION:

As per eligibility criteria prescribed for each course and the merit list in qualifying examination.

SCHEME OF EXAMINATION:

Question Paper will be set in the view of the / in accordance with the entire Syllabus and preferably covering each unit of syllabi of each semester.

Title of Paper-I - Commercial Geography (AECC-C)

	Teaching hours	Credits
Unit. 1. Introduction to Commercial Geography.	15	01
1.1 Meaning of Commercial Geography		
1.2 Nature of Commercial Geography		
1.3 Scope of Commercial Geography		
1.4 Significance of Commercial Geography.		
Unit.2. Resources -	15	01
2.1 Meaning & importance of Resources		
2.2 Classification of Resources		
2.3 Conservation of Resources & sustainable economic development.		
2.4 Major Bio-Resources & their international trade.		
Unit.3. Economic Activities.	15	01
3.1 Classification of Economic activities.		
3.2 Factors affecting Economic activities.		
3.3 Economic activities & National economy.		
Unit.4. Globalization	15	01
4.1 Meaning of Globalization		
4.2 Impact of Globalization.		

4.3 Globalization & Indian Economy.

4.4 Trade Organizations – WTO, OPEC, EEC.

Reference Books.

1. Hartshorne T. N. & Alexander J.W., (1994), Economic Geography, PrenticeHall, New Delhi.
2. Wheeler J. O. et., (1995), Economic Geography, John wiley, New York.
3. Robertson D., (2001), Globalization and Environment, E. Elgar Co., U.K.
4. Saxena, H. M., (1990), Marketing Geography, Raut Publication, Jaipur.
5. Dixit R.S., (1988), Spatial organization of Market centres, pioneer Publ.Jaipur.
6. Bhatya A. K., (1996), International Tourism, Fundamentals & Practices, sterling, New Delhi.
7. Khann K. K. & Gupta V. K., (1982), Economic and Commercial Geography, Sultan Chand, New Delhi.

८. मोहनतावडे व इतर (१९७८), जगाचा आर्थिक व वाणिज्य भूगोल, युनिपब्लिषर्स कोल्हापूर

९. शंकरचौधरी (२००२), पर्यावरण व आर्थिक हिमालय पब्लिसिंग पब्लिशिंग हाऊस, मुंबई.

१०. शिंदे पी.जी. व इतर (१९९३) पर्यावरण शास्त्र, सेठ, मुंबई.

११. सवदी व कोळेकर (१९८६) आर्थिक भूगोल, निराली प्रकाशन, पुणे.

१२. सवदी व कोळेकर (२००५) आधुनिक भूगोल,, निराली प्रकाशन, पुणे १३.

१३. सवदी व कोळेकर (२००७) पर्यावरणीय अध्ययन, निराली प्रकाशन, पुणे.

१४. खतीब के.ए. (२००७) आर्थिक भूगोल, मेहता पब्लिकेशन, कोल्हापूर

१५. घारपुरे विठ्ठल (२००६) आर्थिक भूगोल, पिंपळापुरे पब्लिकेशन, नागपूर

१६. घारपुरे विठ्ठल (२००६) पर्यटन भूगोल, पिंपळापुरे पब्लिकेशन, नागपूर

१७. शिंदे एस.बी. (२००६) पर्यटन भूगोल फडके प्रकाशन कोल्हापूर

१८. चौगुले डी.जी. (२००५) व्यावसायिक पर्यावरण अजब प्रकाशन कोल्हापूर

Part-I (Semester II)
AECC (ABILITY ENHANCEMENT COMPULSORY COURSE)
INTRODUCTION TO MARKETING GEOGRAPHY- Paper II
June-2018 Onwards
Marks – 50 Credits : 4

GENERAL OBJECTIVES OF THE PAPER:

The objective of this course is to introduce Concept, Meaning, Nature, Scope, Significance of Marketing Geography, Market system, Agricultural Marketing and Tourism Marketing in India.

LEARNING OUTCOMES– The student should be knowing the bases of commercial and marketing activities related to the earth.

PATTERN:

Pattern of Examination will be Semester for Theory.

ELIGIBILITY FOR ADMISSION:

As per eligibility criteria prescribed for each course and the merit list in qualifying examination.

SCHEME OF EXAMINATION:

Question Paper will be set in the view of the / in accordance with the entire Syllabus and preferably covering each unit of syllabi of each semester.

Title of Paper-II - Introduction to Marketing Geography(AECC-C)

	Teaching Hours	Credits
Unit.1 .Introduction to Marketing Geography	15	01
1.1Marketing Geography -Concept & Meaning.		
1.2 Marketing Geography - Nature		
1.3 Marketing Geography - Scope.		
1.4 Marketing Geography- Significance		
1.5 Marketing Geography- Primary Components.		
Unit.2. Market System	15	01
2.1 Definition of Market		
2.2 Structure & Significance of Markets.		
2.3 Geographical factors affecting Market system.		
2.4 Classification of Markets.		
Unit.3. Agricultural Marketing.	15	01
3.1 Definition Meaning of and Significance of Agricultural Marketing.		

3.2 Nature and approaches to the study of Agricultural Marketing .

3.3 Process and system of Agricultural Marketing .

3.4 Functions and channels of Agricultural Marketing .

Unit.4. Tourism Marketing in India.

15

01

4.1 Meaning & Importance of Tourism in India.

4.2 Tourism in Modern Period in India.

4.3 Major tourism centers in

a) Jammu & Kashmir,

b) Delhi.

c) Uttaranchal.

d) Maharashtra.

e) Goa.

f) Kerala.

Reference Books.

1. Hartshorne T. N. & Alexander J.W., (1994), Economic Geography, Prentice Hall, New Delhi.

2. Wheeler J. O. et., (1995), Economic Geography, John wiley, New York.

3. Robertson D., (2001), Globalization and Environment, E. Elgar Co., U.K.

4. Saxena, H. M., (1990), Marketing Geography, Rawat Publication, Jaipur.

5. Dixit R.S., (1988), Spatial organization of Market centres, pioneer Publ. Jaipur.

6. Bhatia A. K., (1996), International Tourism, Fundamentals & Practices, sterling, New Delhi.

7. Khanna K. K. & Gupta V. K., (1982), Economic and Commercial Geography, Sultan Chand, New Delhi.

८. मोहनतावडे व इतर (१९७८) 'जगाचा आर्थिक व वाणिज्य भूगोल' युनिपब्लि कार्स कोल्हापूर
९ शंकरचौधरी (२००२), 'पर्यावरण व आर्थिकभूगोल', हिमालय पब्लिसिंग हाऊस, मुंबई.

१०. सिंदेपी. जी. व इतर (१९९३) 'पर्यावरणशास्त्र, सेठ, मुंबई.

११. सवदी व कोळेकर (१९८६) 'आर्थिकभूगोल', निरालीप्रकाशन, पुणे.

१२. सवदी व कोळेकर (२००५) 'आधुनिकभूगोल, निरालीप्रकाशन, पुणे १३.

१३. सवदी व कोळेकर (२००७) 'पर्यावरणीय अध्ययन', निरालीप्रकाशन, पुणे.

१४. खतीब के.ए.(२००७) 'आर्थिकभूगोल, मेहतापब्लिकेशन', कोल्हापूर

१५. घारपुरे विठ्ठल (२००६) 'आर्थिकभूगोल', पिंपळपुरेपब्लिकेशन, नागपूर

१६. घारपुरे विठ्ठल (२००६) 'पर्यटनभूगोल', पिंपळपुरेपब्लिकेशन, नागपूर

१७. शिंदे एस. बी. (२००६) 'पर्यटनभूगोल', फडकेप्रकाशनकोल्हापूर

१८. चौगुले डी. जी. (२००५) 'व्यावसायिकपर्यावरण', अजबप्रकाशनकोल्हापूर

१९. डॉ. एम्. एन्. शिंदे (२००८) 'सूक्ष्मलक्षीअर्थशास्त्र', अनितपब्लिकेशन, इस्लामपूर

२०. डॉ. बबीता अग्रवाल (२००९) 'आंतरराष्ट्रीय अर्थशास्त्र' ओमेगापब्लिकेशन, नवीदिल्ली

२१. प्रा. जगन कराडे (२००७) 'जगत्किकरण', डायमंडपब्लिकेशन, पुणे

२२. गजानन खातू (२००६) 'जगत्किकरणपरिणामआणिपर्याय', अक्षरप्रकाशन, मुंबई

Note: 60 lectures including tutorial work.

Equivalence

Sr. No	Old paper	New paper
1	Introduction of Commercial Geography- Paper I	Commercial Geography- Paper I
2	Globalization and Market System - Paper II	Introduction to Marketing Geography- Paper II

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part - I

Geography

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)

Bachelor of Science Part – I
GEOGRAPHY

1. TITLE: Physical Geography and Human Geography

- 1) Paper – I (Semester – I) i) DSC 19 A - Physical Geography Paper
ii) DSC 20 A - Physical Geography Paper
2) Paper – II (Semester – II) i) DSC 20 B - Human Geography
ii) DSC 20 B - Human Geography

Optional Subjects under the Faculty of Science.

2. YEAR OF IMPLEMENTATION:

Revised Syllabus will be implemented from June, 2017 onwards.

3. PREAMBLE:

The Geography students of B. Sc. Part-I can better understand all latest concepts in Physical Geography and Human Geography in brief but in adequate manner.

4. GENERAL OBJECTIVES OF THE PAPER:

The objective of this course is to introduce the latest concepts in Physical Geography and Human Geography, Specifically in Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere, Human races, Population growth, Characteristics of Population and Settlements.

5. DURATION:

The course shall be a full time course.

6. PATTERN:

Pattern of Examination will be Semester for Theory.

7. ELIGIBILITY FOR ADMISSION:

As per eligibility criteria prescribed for each course and the merit list in qualifying examination.

8. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in English.

9. STRUCTURE OF COURSE:

FIRST YEAR (No. of Papers- I & II)

Sr. No.	Subject or Paper	Marks
1	Physical Geography	100
2	Human Geography	100
Practical (Pattern of Examination will be ANNUAL.)		50

10. SCHEME OF TEACHING:

The scheme of teaching and examination should be given as applicable to the course / paper concerned.

Sr. No.	Subject or Paper	Teaching Scheme (Credits / Week)			
		Credits	Theory	Practical	Total
1	Physical Geography	04	04	--	04
2	Human Geography	04	04	--	04
Practical (Pattern of Examination will be ANNUAL.)		02	--	02	02

11. SCHEME OF EXAMINATION:

Question Paper will be set in the view of the / in accordance with the entire Syllabus and preferably covering each unit of syllabi of each semester.

12. STANDARD OF PASSING:

As per Prescribed rules and regulation for each degree / programme.

B. Sc. Part – I Semester I
(w.e.f. June, 2017)
DSC- 19 A : Physical Geography- I
Marks :50 Credits: 02

Title of the Unit	No. of Lecture	No. of Credits
Unit I Introduction to Physical Geography and Atmosphere	15	(1)

1.1 Definition and Scope of Physical Geography

1.2 Branches of Physical Geography

1.3 Recent Trends in Physical Geography

1.4 Importance of Physical Geography

1.5 Composition and Structure of Atmosphere. Weather and Climate

Unit II Insolation , Temperature , Atmospheric Pressure and Indian Monsoon	15	(1)
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2.1 Insolation: Definition, Factors affecting on distribution of Insolation, World Distribution of Insolation, Heat Balance of the Earth.

2.2 Temperature: Factors Controlling Temperature, Distribution of Temperature – Horizontal and Vertical.

2.3 Pressure: Definition, Vertical and Horizontal Distribution, Pressure Belts, Shifting of Pressure Belts.

2.4 Indian Monsoon: Indian Monsoon and – Tibet Plateau, Jet Stream and El-Nino.

2.5 Seasons in India: Summer, Rainy and winter.

DSC- 20 A: Physical Geography- II
Marks : 50 Credits: 02

Unit I Lithosphere and Earth's Movements	15	(1)
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1.1 Interior of the Earth: Structure of the Earth's interior, Density and Temperature in the interior of the Earth.

1.2 Rocks: Definition, Classification of Rocks, Igneous rock, Sedimentary rocks and Metamorphic Rocks (Characteristics, Classification and Landforms)

1.3 Endogenetic forces, diastrophic forces and movements: Folds and Faults

1.4 Wegener's Theory of Continental Drift.

Unit II Fluvial Geomorphology and Hydrosphere 15 (1)

2.1 Cycle of Erosion - W. M. Davis.

2.2 Running Water or River: Major Landforms formed by Erosion, Transportation & Deposition Processes of River

2.3 Temperature of Ocean Water: Factors Affecting on Horizontal Distribution of Temperature of Ocean Water, Vertical Distribution of Temperature Ocean Water

2.4 Salinity of Ocean Water: Affecting Factors on salinity of ocean water, Distribution of salinity – Horizontal and Regional.

Reference Books

- 1) Clyton K., (1986), Earth Crust, Adus Book , London.
- 2) Davis W. M., (1909), Geographical Essay, Ginnia Co.
- 3) Dayal P., (1996), Text Book of Geomorphology, Shukla Book Depot, Patna.
- 4) Kale V.S. and Gupta A., (2001), Elements of Geomorphology, Oxford University Press, Kolkata.
- 5) Kale V.S. and Gupta A., (2001), Elements of Geomorphology, Oxford Univ. Press.
- Monkhuse, (1951), Principle of Physical Geography, Mc Graw Hill Pub – NewYork.
- 6) Pitty A. F., (1974), Introduction to Geomorphology, Methuen London.
- 7) Singh Savindra, (2000), Physical Geography, Prayag Pustak Bhavan, 20-A, University Road, Allahabad – 211002.
- 8) Steers J. A., (1964), The Unstable Earth Some Recent Views in Geography, Kalyani Publishers, New Delhi.
- 9) Swaroop Shanti, (2006), Physical Geography, King Books, Nai Sarak, Delhi – 110006.
- 10) Wooldridge S. W. and Morgan R. S., (1959), The Physical Basis of Geography and Outline of Geomorphology, Longman Green and Co. London.

B. Sc. Part – I Semester - II
(w.e.f. June, 2017)

DSC-19B : Human Geography-I

Marks :50 Credits: 02

Title of the Unit	No. of Lecture	No. of Credits
Unit I Human Geography and Human Race	15	(1)
1.1 Definition and Scope of Human Geography		
1.2 Branches of Human Geography		
1.3 Recent Trends in Human Geography		
1.4 Importance of Human Geography		
1.5 Human Races – Major Racial Groups and Classification		
1.6 Religious and Ethnic Groups in the World.		

Unit II Population	15	(1)
2.1 World Growth of Population.		
2.2 Factors Affecting the Distribution of the World Population.		
2.3 Distribution of the World Population.		
2.4 Theory of Population Growth –Malthus		
2.5 Demographic Transition Theory.		

DSC-20B : Human Geography-II

Marks : 50 Credits: 02

Unit I Composition of Population and Population Migration	15	(1)
1.1 Age Composition: Factors Affecting on Age Composition, Age Composition in India.		
1.2 Sex Ratio: Factors Affecting on Sex Composition, Sex Composition in India		
1.3 Human Migration: Definition		
1.4 Types of Migration		
1.5 Causes of Migration		
1.6 Consequences of Migration		
Unit II Settlements and Location Theories	15	(1)
2.1 Types and Pattern of Settlements.		
2.2 Site and Situation of Rural Settlements.		
2.3 Urbanization and World Trend of Urbanization.		
2.4 Christaller's Central Place Theory.		
2.5 Perroux's Growth Pole Theory		

Reference Books

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
5. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
6. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
7. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
8. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur
9. Beaujeu Gamier : Geography of Population, Longman, London-1978
10. Clarke J.I. : Population Geography, Pergamon Press Oxford – 1972
11. Chandana R.C. : Geography of Population, Kalyani Pub. Ludhiana 1988
12. Hagget Peter : Human Geography
13. Ghosh B.N. : Fundamentals of Population Geography
14. Hussain M. : Human Geography 1994
15. Money D.S. : Human Geography
16. Perillou A.V. : Human Geography, Longman, London- 1986
17. Robinson H. : Human Geography, 1976
18. Mishra & Puri : Indian Economy 2004
19. India- 2008 : Govt. of India
20. Hassan Mohammed I. : Population Geography, 2005
21. Bhende Asha & Kanitkar Tara : Principles of Population studies
22. Perillou A.V. : Human Geography, 1986
23. Singh, R.Y. : Geography of Settlement, 1998
24. Singh, Gopal : Mapwork & Practical Geography, 1999
25. Sawant S.B. & Athavale A.S. Population Geography, Mehata publishing house, Pune.
26. सवदी.ए.बी. आणि कोळेकर .पी.एस.व लोक संख्या भूगोल निराली प्रकाशन पुणे.
27. ताचोळे द.धो.— लोकसंख्याशास्त्र.
28. पवार,अडसुळ, फुले, पाटील— मानवी भूगोल सप्रेम प्रकाशन कोल्हापूर.
29. डॉ प्रकाश सावंत — भूरूपशास्त्र व हवामानशास्त्र, फडके प्रकाशन

B. Sc. Part – I Practical-I (Based on paper I & II)
(w.e.f. June, 2017)
Marks : 50 (Credits: 02)

General Cartography (Practical)

Title of the Unit	No. of Credits
Unit I Map	(0.25)
1.1 Map: Definition, Elements and Types ,	
1.2 Maps and Globe – Similarities and Differences,	
1.3 Significance and uses of Maps and Globes.	
Unit II Map Scale	(0.50)
2.1 Meaning and Definition,	
2.1 Methods of Representation of scale	
i) Verbal	
ii) Numerical	
iii) Graphical	
2.3 Scale Conversion	
i) Verbal to Numerical	
ii) Numerical to Verbal	
2.4 Construction of Graphical Scale	
i) Simple (Plane Scale)	
ii) Comparative Scale	
iii) Time and Distance Scale	
iv) Diagonal Scale	
Unit III Map Projection	(0.50)
3.1 Definition and Classification of Map Projection	
i) Based on the methods of Construction –	
Perspective and Non-perspective	
ii) Based on Developable Surface used -	
Conical, Cylindrical, Zenithal, Conventional.	
iii) Based on Position of Tangent Surfaces –	
Polar, Equatorial (normal), Oblique.	
iv) Based on Position of view point or light –	

Gnomonic, Stereographic, Orthographic

v) Based on Preserved qualities -

- i) Equal area projection (Homolographic)
- ii) Orthographic Projection
- iii) Azimuthal Projection (True Bearing Projection)

3.2 Graphical Construction of the following Projections:

- i) Zenithal Polar Gnomonic Projection
- ii) Zenithal polar Equidistant Projection
- iii) Zenithal Polar Equal Area Projection
- iv) Cylindrical Equal –Area Projection
- v) Simple Conical Projection with one standard Parallel
- vi) Mercator’s Projection
- vii) Bonne’s Projection.

Unit IV Representation of Statistical Data (0.50)

4.1 Graphs and Diagrams

i) One Dimensional Diagrams:

- a) Band Graph
- b) Climograph
- c) Hythergraph

4.2 Two Dimensional Diagrams:

- a) Proportional Circle
- b) Proportional Spheres

4.3 Three Dimensional Diagram: Cube Diagram

4.4 Distributional Diagram

- a) Choropleth Map
- b) Isopleths Map

Unit V Remote Sensing (0.25)

5.1 Definition, Concept and history of Remote Sensing

5.2 Elements of Remote Sensing: EMR, Sensors and Platforms.

5.3 Application of Remote Sensing in Geography

5.4 Aerial photographs and Satellite imagery: Definition, types and difference between them.

5.5 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery with the help of stereoscope.

5.6 Determination of Photo Scale.

Reference Books

1. Buoygoot, J. (1964), An Introduction to Mapwork and Practical Geography. University Tutorial, London.
2. Monkose, F. J. and Wilkinson, H. R. (1971), Maps and Diadgrams. Mathuen, London.
3. Raisz, E. (1962), Principals of Cartography, McGraw Hill Book Com., Inc, New York.
4. Robinson, A.H. and Shale, R. D. (1969), Elements of Cartography. John Wiley and Sons, Inc, New York.
5. Singh, L.R. and Singh, R., (1973), Mapwork and Practical Geography. Allahabad.
6. Curran, P. (1989), Principles of Remote Sensing, Logman, London.
7. Lo C. P. and Young A. K. W., (2011), Concepts and Techniques of Geographic Information Systems, PHI Learning Private Lim., New Delhi – 110001.
8. Dickinson, G.C., (1979), Maps and Air Photographs, Arnold Publisher, New Delhi.
9. Mishra, R.P and Ramesh A., (2000), Fundamentals of Cartography. Concept Publ. Com., New Delhi.
10. Burrough, P. A. and McDonell, R., (1998), Princinples of Geographical Information Systems, Oxford University Press, Oxferd.

NOTE:

- i) The details of field work, seminar, Group Discussion and Oral examination be given wherever necessary.
- ii) General/Specific instructions for Laboratory safety should be given wherever necessary.

SHIVAJI UNIVERSITY, KOLHAPUR



Modified & Revised Syllabus of B.A. I Introduction of Physical Education & Sports Sem. I & Sem. II

**(Introduced from June 2013 and onwards)
(Subject to the modifications made from time to time)**

SHIVAJI UNIVERSITY, KOLHAPUR
PHYSICAL EDUCATION (Optional)

Introduced from June, 2013

B. A. Part I
Semester I

Introduction of Phy. Education and Sports
(Paper – I)

Practicals – 50 Marks

(4 Periods for Theory)

A batch of 20 students for practical period and Exam.:-

Per Unit 15 Period

Unit 1 :The meaning of Phy. Education and Sports

- A) Meaning, Definition and concept of Phy. Edu.
- B) Changing concept of Phy. Education
 - a) Exercise
 - b) Physical Training
 - c) Gymnastics
 - d) Recreation
 - e) Games & Sports
 - f) Health & Phy. Education

Unit 2 : Aim and Objectives of Phy. Education

- A) General Aim
- B) Objectives
 - a) Organic Power
 - b) Phy. Skills
 - c) Mental and Emotional Development
 - d) Social Development
 - e) Professional Development
 - f) National integration

Unit 3 : Foundation of Phy. Education

- A) Body Posture
 - a) Meaning, Definition, Kinds of body Posture , Characteristics of good body posture
- B) Physical Differences between two sexes with reference to Phy. performance-strength, speed, endurance, Agility, Flexibility etc.

Unit 4 : A) Physical fitness and Health

- a) Physical Fitness
- b) Factors of Phy. Fitness.
- c) Balance Diet.
- d) Bad Habits with Special reference to Phy. Fitnessess Alcohol and Tobacco.
- e) Walking- Meaning, Neet and Importance

B) Play –

- a) Meaning, Definitions, Concepts
- b) Work and Play
- c) Theories of play
 - i) surplus energy – जादा शक्तीचा
 - ii) Anticipatory Theory- पूर्वतयारीचा
 - iii) Recapulatory Theory- पुनरावृत्तीचा
- d) Importance of Play.

(N.B.1- Total Passing in Theory minimum 17 Marks)

Books Recommended

1. शारीरिक शिक्षण : तत्वे व स्वरुप – भा. रा. गोगटे, अखिल महाराष्ट्र शारीरिक शिक्षण मंडळ प्रकाशन, पुणे.
2. शारीरिक शिक्षण : तत्वे व व्यवस्थाद्ध हिराजी पाटील, ठोकळ प्रकाशन, पुणे.
3. शारीरिक शिक्षणाचे स्वरुप : प्रा. श्रीपाल जर्दे व सौ. सुनिता जर्दे, चंद्रमा प्रकाशन, कोल्हापूर.
4. शारीरिक शिक्षणाचा ओनामा : भा. रा. गोगटे, व्हीनस प्रकाशन, पुणे.
5. क्रीडा मानसशास्त्र : डॉ. प. म. आलेगांवकर, श्री. गजानन बुक डेपो, पुणे-30.
6. शारीरिक शिक्षणाचे आधुनिक स्वरुप : दि. गो. वाखारकर, नीलकंठ प्रकाशन व अध्यापन पध्दती पुणे.
7. Principles of Physical Education : J. F. Williams, W.B. Sanders Complany, Philadelphia, London.
8. Scientific Foundations of Physical Education : C.C. Cowell, Happer and Brothers, New Your.
9. Foundation of Physical Education – C. A. Bucher, W. B. Sanders Company, Philadelphia, London.
10. Recreation and Physical Fitness for Youths and Men : Board of Education, London.
11. Physical Education : Interpretations and objectives – J. B. Nash, The Ronald Press Company – New York.
12. Introduction to Physical Education : L. R. Sharman, A. S. Barnes and Company, New York.
93. कबड्डी – नरेंद्र दाभोळकर, म.वि.ग्रं. नि. मंडळ, नागपूर.
14. कबड्डी – प्रा. श्रीपाल जर्दे व प्रा. विजय पाटील, अंबा प्रकाशन, कोल्हापूर.
15. कबड्डी – प्रा. एन. एम. भैरट.
16. आधुनिक व्हॉलीबॉल – व्यंकटेश वांगवड, गजानन बुक डेपो, पुणे-30.
17. अॅथलेटिक्स – राम भागवत, ट्रॅक अँड फोल्ड पब्लिकेशन, पुणे-9.

18. मैदानी स्पर्धा व नियम, आयोजन – रमेश तावडे, राम भागवत ट्रॅक अँड फील्ड प्रकाशन, पुणे.
19. Introduction to Physical Education : Dr.S.D.Chavan.

Nature of Question Paper

**B.A.I
Semester I
Int. of Phy. Education Sports
Paper - 1**

Q. No. 1 to 4 are Compulsory

Q. 1 Compulsory	10 Mark Descriptive type
Q-2 Compulsory	10 Mark Descriptive type
Q-3 Compulsory	20 Mark Short Note -4
Q-4 Compulsory	10 Mark Objective type
	05 Mark Choice correct answer
	05 Mark answer in one sentence.

**SHIVAJI UNIVERSITY, KOLHAPUR
PHYSICAL EDUCATION (Optional)**

Introduced from June, 2013.

**B. A. Part I
Semester I
Introduction of Phy. Education and Sports
(Paper – II)**

Practicals – 50 Marks

(4 Periods for practical per week)

A batch of 20 students for practical period

Per Unit 15 Period

I) Athletics – 15 Marks

1. Sprint – 100 M – 5 marks.
- a) The candidates running 100 Mtrs. Performance- – 3 marks.
- | | |
|---------------------------------------|-----------|
| 100 Mtrs. (Men) - 14.00 to 14.50 Sec. | -3 Marks |
| - 14.50 to 15.50 Sec. | - 2 Marks |
| - 15.50 to 16.50 Sec. | -1 Mark |

100 Mtrs. (Women)- 16.00 to 16.50 Sec. - 3 Marks

- 16.50 to 17.50 Sec. - 2 Marks

- 17.50 to 18.50 Sec. - 1 Marks

a) For Technique & Modern Style – 2 Marks

2. Shot-put - - 5 Marks

a) Performance - 5.50 Mtrs. - 3 Marks

(Men) - 5.00 Mtrs. - 2 Marks

- 4.50 Mtrs. - 1 Mark

(Women) - 5.00 Mtrs. - 3 Marks

- 4.50 Mtrs. - 2 Marks

- 4.00 Mtrs. - 1 Mark

b) For Technique & Modern Style - 2 Marks

II). Long Jump - - 5 Marks

a) Performance - 4.50 Mtrs. - 3 Marks

(Men) - 4.25 Mtrs. - 2 Marks

(Women) - 3.00 Mtrs. - 3 Marks

- 2.75 Mtrs. - 2 Marks

For Technique & Modern Style – 2 Marks

II) Indian Game : Kabaddi– 10 Marks.

a) Fundamental skills - 6 Marks

b) Knowledge of rules and regulations - 4 Marks

III) Ball Game : Volley ball - 10 Marks

a) Fundamental skills - 6 Marks

b) Knowledge of rules and regulations - 4 Marks

IV) Indian Exercises : - 10 Marks.

A. Suryanamaskar- - 5 Marks

(Boyes-20, Girls-15)

B. Asnas- - 5 Marks

a) पश्चिमोतानासन, भुजंगासन, वज्रासन, हलासन, सर्वांगासन

- (टिप – 1. प्रत्येक आसन–2 मिनीटे करणे,
2. सर्वआसने आवश्यक आहेत)

Record Book- 5 Marks

The Record book will cover the following-

i) Brief History

ii) Various diagrams

iii) Name of different

fundamental skill in team events and different styles in Athletic events

iv) Rules and regulations (This should be written as per federation roll book)

The Record book will be assessed internally and mark should be submitted to the External Examination

(N.B.1- Total Passing in practical minimum 17 Marks out of 50)

(N.B.2- practical Examination conducted 3

a) A batch of 20 Students for Practical period & examination

b) One organizer (Internal subject Teacher)

c) Two Examiner appointed by university

d) Peons-Two Peons for Ground marking, water supply equipment supply and colleting etc.

= RESULT SHEET for (Practical) Exam

Exam No.	Roll No.	Name	Athletics	Indian Game	ball Game	Indian Exercises	Record book	Total
			15	10	10	10	05	50

Equivalence

B. A. Part-I	B.A Part-I
Pre-Revised Course	Revised Course
Introduction of Phy. Education and Sports Paper -I Sem.I	Introduction of Phy. Education and Sports Paper -I Sem.I
Introduction of Phy. Education and Sports Paper-II Sem.II	Introduction of Phy. Education and Sports Practical Sem.II



B
Accredited By NAAC
(2009)

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA

PHONE : EPABX- 2609000 GRAM : UNISHIVAJI

FAX : 0091 . 0231 . 2691533 - 0091 . 0231 . 2692333 . BOS 2609094

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र

दुरध्वनी : (ईपीएबीएक्स) २६०९००० (बी .ओ .एस .२६०९०९४) तार : युनिशिवाजी

फॅक्स : ००९१ - ०२३१ - २६९१५३३ व २६९२३३३. e - mail : bos@unishivaji.ac.in

SU/BOS/ Phy. Edu. /BA/10188

Date :- 9 JAN 2012

The Principal,
All Affiliated Physical Education Colleges
Shivaji University, Kolhapur.

Subject:- Regarding revised syllabi, nature of question paper and equivalence of B.A. II- Physical Education (Sem-III & IV) & Yoga Studies (I.D.S.) (Sem-III & IV) Semester System under the Faculty of Education.

Ref:- This Office letter No S.U/BOS/Soc/3189 dated 8th August 2011.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the syllabi, nature of question paper and equivalence of B.A. II- Physical Education (Sem-III & IV) & Yoga Studies (I.D.S.) (Sem-III & IV) under the Faculty of Education.

This syllabi shall be implemented from the academic year 2011-2012 (i.e. from June 2011) onwards. This syllabi is also available on university website www.unishivaji.ac.in.

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in Oct/Nov-2011, March/April-2012, Oct/ Nov-2012 & March/April-2013. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Sd/-
Dy. Registrar

Encl: C.D. of the above mentioned syllabi

Copy to:-

- 1 Dean, Faculty of Education
- 2 Chairman, Ad-hoc Board in Phy. Education
- 3 Appointment Section
- 4 B.A. Section
- 5 Affiliation Section (P.G.)
- 6 Computer Centre

For information & n. a.

Shivaji University, Kolhapur



B
Accredited By NAAC

Revised Syllabus For
Bachelor of Arts

(B.A. - II Semester - III / IV)

Physical Education & Yoga Studies

(Subject to the modifications to be made from time to time)

Syllabus to be implemented from June 2011 onwards.

SHIVAJI UNIVERSITY, KOLHAPUR
Revised SYLLABUS OF
PHYSICAL EDUCATION

B. A. Part II
Sem.-III
Paper-III
History of Physical Education

25 Marks

Topics :

Unit-1 : Physical Education in Ancient Times –

- a) Elements of Physical Education in Primitive Societies with reference to Aims, Promotions, Programmes and methods of Physical Education.
- b) Physical Education in Ancient India -
Periods :-
 - i. Advent of Aryans 2000 B.C. (Early Period)
 - ii. Epic Age 1500 B.C. to 500 B.C.
 - iii. Buddhist Period.

With reference to the following activities :

Archery, Wrestling, Stick-fighting, Yogic exercises.

- Unit-2 :**
- a) Ancient Olympic Games (Aim & Nature) :- Legendary origin, significance of the games, rules of the games and eligibility, conduct of events, awards, decline of ancient Olympics.
 - b) Modern Olympic Games (Aim & Nature) :- Revival of the Olympic games, controlling body, rules of eligibility for competition, organization and conduct of the games, venues, events, opening ceremony, awards, closing of ceremony, Olympic flag, Olympic torch etc.
 - c) Asian games

PHYSICAL EDUCATION (Optional)

B. A. Part II

Sem.-III

Paper-IV

Organization and Administration in Physical Education and Sports

25 Marks

Unit-1 : Organisation and Administration :

- a) Meaning, Definitions, Concepts and its need in Physical Education and Sports.
- b) Principles of Organization in Physical Education and Sports.
- c) Principles of Administration in Physical Education and Sports.

Unit-2 : Organization and Administration of various competitions :

- i. Inter-collegiate Sports of Shivaji University.
- ii. Inter-Zonal Sports of Shivaji University.
- iii. Inter-University Sports.

(With special reference to organize body, Finance and various Committees and their functions.)

B.A.-II Physical Education

Semester –III

Total – 50 Marks

1) Athletics				20 Marks
A) Discus Throw			10 Marks	
Performance				06 Marks
Men	Women		Marks	
18M.	15M.		06 Marks	
16 M.	14M.		04 Marks	
14M.	13M.		02Marks	
For Techniques & modern Styles				04 Marks
B) Middle Distance Run				
800 M. Running -			10 Marks	
Men	Women		Marks	
2.40 Sc.	3.40 Sec.		06 Marks	
2.45 Sc.	3.45 Sec.		04 Marks	
2.50 Sc.	3.50 Sec.		02 Marks	
For Knowledge of Rules & Regulations -			04 Marks	

2) Rndian Game

14 Marks

Khokho 14 Marks

Fundamental Skills- 10 Marks

Knowledge of Rules & Regulations - 04 Marks

3) Indian Exercscise

10 Marks

A) Suryanamskar for Men- 20- 05 Marks

Suryanamskar for Women- 15- 05 Marks

B) Yogasans- 05 Marks (Any Five)

Padmasan, PadHastasan, Veerasan, Shawasan,

Shalbhasan, Navkasan, Tadasan, Suptavajrasan.

4) Gymnastics

06 Marks

Frrunt Roll, Backroll, Cartwheel

= RESULT SHEET = (Practical Examination) 50 Marks

Sem-III Paper- No.- III & IV

Exam No.	Roll No.	Name	Athletics (20)	Indian Exercises (10)	Indian Game (14)	Ggm	Total	Paper	
								III	IV
			20	10	14	06	50	25	25

N. B. :-

- 1) There are two heads for passing that i.e. Theory, Practical
- 2) In theory and Practical minimum 9 marks out of 25 is required for passing in each head.
- 3) For conduct of Practical Examination the Principal and concern teacher will appoint Examiners among the list of the Examiner approved by the University for that year.
- 4) There should be 20 students in single batch while conducting the Practical Examination. The concern College will make all necessary arrangement including ground marking, Water Supplier, Equipments, availability of sports equipments as well as supportive staff for the purpose.

- 5) For Theory Paper the following nature of Question Paper (Pattern) followed by the University.
- A) Each Theory paper have 25 marks and Duration of Paper is one hour.
- B) There will be 3 Questions for each paper which will be compulsory.
Out of three Questions, Question No. 1 will be descriptive type Question carrying 10 marks. The said Question will also have one optional Question (OR) Question
- C) Question No. 2 will be of short notes carrying 10 marks in there will be four short notes. Candidate has to attend any two out of four short notes.
- D) Question 3 will be an objective type question carrying 5 marks for 5 Questions such as Match the Pair, Fill in the blanks, Answer in one sentence, Objectives, etc.
- 6) The Practical will carry 50 marks. Divide into two papers if and makes given the even marks should give in paper No. 3 (i. e. 39 marks divided into two paper as paper No. 3 - 20 marks, paper No. 4 - 19 marks)

B.A.- II PHYSICAL EDUCATION

Sem.-IV

Paper-V

History Physical Education

25 Marks

Unit-I : a) Development of Physical Education in India :

1. Mongal Period.
2. British Period.
3. Post Independence Period.

b) Development of Physical Education in Maharashtra.

- i. Maratha Period : 1600 A. D. onwards,
- ii British Period : 1800 A. D. onwards,
- Period of Nationalism : 1920 onwards,
- Modern Period : 1937 onwards.

Unit-II : Different Institutions for training in Physical Education in India.

a) SNIPES - i) NSNIS,

II) LNIPE (Deemed University)

b) Sports Authority of India – Inceptions and Functions

c) Sports Awards in India –

- 1) National Level
 - i. Arjun Awards
 - ii. Dronacharya Awards
 - iii. Rajiv Gandhi Khel Ratna Awards.
- 2) State Level in Maharashtra –
 - i. Dadoji Kondadev Award
 - ii. Shiv Chatrapati Award.

PHYSICAL EDUCATION

B.A.- II

Sem.- IV

Paper-VI

Organization and Administration in Physical Education and Sports

25 Marks

Unit-I : Meets and Tournaments :

- a) Importance of meets and tournaments.
- b) Types of Tournaments – i) Knock-out system, ii) League system, iii) Combination system. (To draw the lots, their merits and demerits).
- c) Athletic Meet : Officials, various Committees, Opening ceremony, closing ceremony.

Unit-II :A) Play ground Facilities – Standards :

- a) Preparation and Maintenance of Playgrounds.
- b) Gymnasium : Standards, Facilities and Maintenances.
- c) Lay-out of Play fields – Kabaddi, Kho-Kho, Volleyball, Handball, Cricket, Basket Ball.

B) Equipments of Sports :

- a) Care and Maintenance.
- b) Policies of purchases of Sports Equipments.

Books Recommended

1. E. F. Voltimen and A. A. E. – Islinger – The Organisation of Administration of Physical Education.
2. Jay B. Nash – The Administration of Physical Education.
3. Prin. P. M. Joseph – Organisation of Physical Education – The Old Student's Association, T.I.P.E., Bombay.
4. Organisation of Physical Education – by J. P. Thomas.
5. Administration of School Health and Physical Education Programme – by C. A. Bucher.

6. Williams J. F. and others – The Administration of Health and Physical Education – Philadelphia – W. B. Saunders Co.
7. Prin. Sunil D Chavan – Organisation and Administration in Phy. Education and Sports.
8. Two experienced Professors – Organisation, Administration and Recreation in Physical Education – Prakash Brothers Ludhiana.
9. शारीरिक शिक्षण : संघटन आणि प्रशासन : प्रा. शंकर तिवाडी, शारदा प्रकाशन, नांदेड.
10. शारीरिक शिक्षण : आयोजन, नियोजन, निरीक्षण: प्राचार्य वाखारकर व डॉ. अलेगांवकर, पार्वती प्रकाशन, पुणे.
11. शारीरिक शिक्षण : अध्यापन पध्दतीव मूलतत्वे – प्राचार्य डॉ. वि. कृ. कानडे, नूतन प्रकाशन, पुणे-30.
12. मैदानी स्पर्धा : नियम, आयोजन – रमेश तावडे व राम भागवत – ट्क अॅण्ड फील्ड पब्लिकेशन, पुणे-9.
13. शर्यती, स्पर्धा व खेळ – प्राचार्य आ. पा. खरात, मेहता पब्लिकेशन हाउस, पुणे-30.
14. कबडडी : डॉ. नरेंद्र दाभोळकर – महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, नागपूर.
15. कबडडी : श्रीपाल जर्दे व विजय पाटील – अंबा प्रकाशन, कोल्हापूर.
16. कबडडी : प्रा. एन. एम. बहिरट
17. हॅण्डबॉल : प्रा. म. द. खतकर
18. आधुनिक व्हॉलीबॉल : प्रा. व्यंकटेश वांग्वाड, गजानन बुक डेपो, पुणे-30.
19. व्हॉलीबॉल – वा. द. साने – क्रीडा प्रकाशन, नागपूर-10.
20. खो-खो : प्रा. कमल बनसोडे – गजानन बुक डेपो, पुणे.
21. अॅथलेटिक्स : राम भागवत – ट्क बॅण्ड फील्ड पब्लिकेशन, पुणे-30.
22. मैदानी खेळ : वसंत सांगवीकर अंबा प्रकाशन
23. सांघीक खेळ – वसंत सांगवीकर अंबा प्रकाशन
24. व्हॉलीबॉल दर्यावर- प्राचार्य, सुनील डी.चव्हाण पंचतारा प्रकाशन

B.A.-II Physical Education

Semester –IV

Total – 50 Marks

1) Athletics	20 Marks	
A) High Jump	10 Marks	
Performance		
Men	Women	Marks
1.30M.	1.10M.	06 Marks
1.25 M.	1.05M.	04 Marks
1.20M.	1.00M.	02Marks
For Techniques & modern Style		04 Marks

B) Middle Distance Running 1500 M. Running -10 Marks

Men	Women	Marks
5.45 Sc.	7.00 Sec.	06 Marks
5.50 Sc.	7.10 Sec.	04 Marks
5.55 Sc.	7.20 Sec.	02 Marks

For Knowledge of Rules & Regulations - 04 Marks

2) Ball Game 14 Marks

Hand Ball/ Basket Ball.

Fundamental Skills- 10 Marks

Knowledge of Rules & Regulations - 04 Marks

3) Ground Marking 06 Marks

Kho-kho/ Hand Ball/ Basket Ball (Any One)

4) Record Book 10 Marks

= RESULT SHEET = (Practical Examination) 50 Marks

Sem-IV Paper- No.- V & VI

Exam No.	Roll No.	Name	Athletics	Ground Marking	Ball Game	Record Book	Total	Paper	
								IV	VI
			20	06	14	10	50	25	25

Semester – III
YOGA STUDIES (IDS)
Paper No-I
Theory and Practical

A) Theory – 25 Marks (One hours)

B) Practical – 25 Marks

Unit 1: Concepts, Definitions of Yoga

Unit 2: Aim objective of Yoga

Unit 3: Astang Yoga of patangali

A) Yam, Miyam

B) Asana, Pranyam, Pratyahar, Dharana, Dhyan, Samadhi

Semester – IV
Paper No-II
Yoga Studies –IDS Paper No- II

Unit 1: Currant Misconception about Yoga.

Unit 2: Effect of Yogic exercises and Yoga On Vaiious system of the Human Body

Unit 3: a) Yogic Diet

a) **Benefits of Yoga in Modern life**

B.A.- II
Yoga Studies (IDS)
Practical
Semester-III

- A. **Vajrasan, Padmasan, Vakrasan, Bhujangasan, Ardhashalbhasan Viparilkarni, Mastyasan, Padtlastasan etc.**
- B. **Shitali pranayan, kapalBhati pranayan, Udlyan Bandu, Singh mudra**
- C. **Omkar sadlhana**
- D. **Any one prayer**

The practical examination shall be conducted as follows

- A. **Examiners appointed and one Internal Examiner.**
- B. **Marking system and performa.**

From Section (a) of the practical

Two Assans of student Choice - 04 Marks
Two Assans of Examiners Choice- 04 Marks } 08 Marks

From section (B) of the Practical

Any two student choice - 04 Marks
Any two Examiners choice - 04 Marks } 08 Marks

From Section (C) of the Practical

Omkar sadhana

04 Marks

From Section (D) of Practical

Any on prayer

05 Marks

Total - 25 Marks

Performa

Seprate Passing in Theory & Practical is essential

A- Theory paper – Minimum Passing

09 Marks

B- Practical - Minimum Passing

09 Marks

IV Semester / (IDS) Yoga Studies

Practical

(A Batch of 20 student for Practical)

A) Assans

**Swastikasan, Parvatasan, Pachimotanasan, Dhanurasan, Shalbhasan Halasan,
Shavasan, Chakrasan (lateral)**

B) Shitkari- Pranayam, Bhramai Pranyam,

Jiva-Bandh, Bramha-Muara

C) Any one prayer

D) Record Book

The practical Examination shall be conducted as follows

A. Two examiners appointed and one Internal Examiner

B. Marking system and performa

From section (a) of the practical

Two Assans of student Choice - 04 Marks

Two Assans of Examiners Choice- 04 Marks

08 Marks

Form section (B) of the practical

Any two student choice - 04 Marks

Any two Examiners choice - 04 Marks

08 Marks

From section (C) of the practical

Any one paler -

04 Marks

From section (D) of the practical

Record Book -

05 Marks

YOGA STUDIES (IDS)

Theory and Practical

- A) Theory – 25 Marks (Two hours)
B) Practical – 20 Marks + 5 Marks for Record Book.

Unit 1: Concepts, Definitions, aim and objective of Yoga

Unit 2: 1. Benefits of Yoga in modern life

2. Benefits of Yoga in Physical Education and Sports

Unit 3: Survey of development of Yoga from Vedic period to Modern Period

Unit 4 : A) Effect of Yogic exercises and Yoga On Various system of the Human Body

B) Yogic Diet

For Distribution of Marks see N.B. Over-leaf.

Practical :

(A batch of 20 students for practical.)

- a) **Vaijrayana, Svastikasana, Ardhapadmasana, Bhujangasana, Ardha-shalabhasana, Dhanurasana, Vakrasana, Chakrasana (Lateral), Padahastasana, Gomukhasana, Viparitakarani, Halasana, Matsyasana, Mayurasana, Shavasana.**
- b) **Uddiyana Bandha, Brahma murda, Ujjayi Pranayama without Kumbhaka, Kapalabhati.**
- c) **Recitation of Om, Svadhyaya (Recitation of any Prayer.)**

The Practical examination shall be conducted as follows :

- a) Two examiners appointed by the University and one Internal Organiser.
b) Marking system and proforma :

From Section (a) of the Practical –

Two asanas of Student's choice 10 Marks

Two asanas of Examiner's choice 10 Marks

From Section (b) of the Practical –

Any two of Student's choice 10 Marks

Any two of Examiner's choice 10 Marks

From Section (c) of the Practical –

Any one of Student's choice 5 Marks

For the record book of the student

(To be submitted by the College to the Examiner) 5 Marks

Separate passing in Theory and Practical is essential –

a) Theory paper – Minimum Passing - 17 Marks

b) Practical – Minimum Passing - 18 Marks

PROFORMA

Sr. No.	Roll No.	Exam No.	Name	Section (a)		Section (b)		Section (c) Student's Choice Asanas	Section (D) Student's Choice Asanas	Total
				Student's Choice Asanas	Examiners Choice Asanas	Student's Choice Asanas	Examiners Choice Asanas			
				4	4	4	4	4	5	25

Note : In consideration of the recommendations of the Education Policy, this paper should be kept open for any desirous student. This Inter-disciplinary subject may be prescribed for all the optional subjects of B.A. Degree Course.

Books Recommended

1. History of Yoga – Vivian Worthington, Routledge & Kegan Paul Ltd., London, 1982.
2. Asanas – Kavalayanada, Kaivalyadhama, Lonavla.
3. Pranayama - Kuvalayananda, Kaivalyadhama, Lonavla.
4. भारतीय मानसशास्त्र – के. के. कोल्हटकर, के. भि. डवळे प्रकाशन.
5. योगाभ्यास मार्गदर्शन – म. ल. घरोटे, मेधा पब्लिकेशन्स, कैवल्यधाम, लोणावळा.
6. सर्वदर्शन संग्रह – द. वा. जोग
7. शुद्धिक्रिया: प्रयोजन आणि प्रयोग – ग. द. दातर, योगविद्याधाम, पुणे.

- N.B. :**1) Theory paper shall be of One hours duration carrying 25 marks.
There will be THREE questions of the first two of which will be having internal option carrying 30 marks. The third question will be of short type question and will carry 20 marks.
- 2) The practical will carry 25 marks.
a) Practical Examination shall carry 20 marks.
b) Record-book shall carry 5 marks.

समकक्ष विषय

Old Paper	New Paper
Paper – II History of Physical Education	Sem.-III Paper-III History of Physical Education
	Sem.-IV Paper-V History Physical Education
Paper - III Organization and Administration in Physical Education and Sports	Sem.-III Paper-IV Organization and Administration in Physical Education and Sports
	Sem.- IV Paper-VI Organization and Administration in Physical Education and Sports

Old Paper	New Paper
YOGA STUDIES (IDS)	Semester – III Paper No-I YOGA STUDIES (IDS) Theory and Practical
	Semester – IV Paper No-II YOGA STUDIES (IDS) Theory and Practical

SHIVAJI UNIVERSITY, KOLHAPUR



Revised Syllabus

B.A. Part-III

Introduction of Physical Education & Sports

(Introduced from June 2010 and onwards)

Shivaji University, Kolhapur
PHYSICAL EDUCATION (Special)

B. A. Part III

Paper-IV

Health Education

40 Marks

(Two periods for theory and two periods for practicals per week. A batch of 20 students for practical periods.)

I) Introduction :

- a) Meaning, definitions of Health Education.
- b) Nature and scope of Health Education.

II) Personal Health

- a) I) Factor's of Personal Health – I) Physical II) Mental III) Social
II) Factor's influencing on Health

- a) Heredity 2) Atmospear 3) Habits 4) Exercise

b) Social Health

- a) Problems of social Health
- b) Role of Government in social Health
- c) Communicable diseases Causes & Prevention (Malaria, Dengu, Chikan Gunia, Sawine Flue)

III) Health of the Community

- a) Health problems in family, Community, School and Colleges.
- b) Communicable diseases
- c) Role of Government in community health.

IV) Health Programme :

- a) Importance of exercises in health and fitness.
- b) Drugs, Alcohol and Tobacco-Adverse effect on performance.

V) Meaning & Scope of Population Education

Aims & objectives of population education in adult education programme, Historical development of Population – Education Programme in India, Role of Health Education in Population Education Programme.

VI) World Health Organization –

- a) Constitution, Aims & Objectives, Plans of Operations, Assistance, functions and importance.
- b) Importance and need of family planning and Sex Education in India (In Brief)
- c) What is meant by Aids, causes, symptoms & prevention of Aids.

Reference

1. Health Education and Hygiene – J. S. Manjal, Universal Publishers, Agra.
2. Health in India – Grant.
3. Preventive and Social Medicine – J. E. Park.
4. Adapted and Corrective Physical Education – Kielly.
5. Applied anatomy and Kinesiology – Rash and Burke.
6. Exercise Physiology – Fox.

Paper-V

Recreation in Physical Education

40 Marks

(Two periods for theory and two periods for practicals per week. A batch of 20 students for practical periods.)

Unit-I : a) Concept, Definitions, Nature and function of Rhythm.

b) Need & Importance of Recreation in Sports & Phy. Education

Unit-II : Objectives of recreation.

Unit-III: Main trends in patterns of recreation.

a) Haiking.

b) Treaking.

c) Trips/Picnic

d) Sports Camps and Competations.

Unit-IV: a) Recreational Scheduling Programmers provides for primary

And secondary Schools, Colleges, Universities & Industrial Workers.

b) Recreational Games and Facilities

I) Importance of recreational Game in Sports.

II) Recreational Facilities in Sports.

Books Recommended

1. An Introduction to Recreation Education – W. B. Saunders Company Philadelphia -1955.
2. Community Recreation – Meyer and Brightbill, Prentice Hall, INC 1966.
3. Leisure and Recreation – Neumeyer and Esther. A. S. Barnes and Company, 1956.
4. क्रीडा आणि रंजन – डी. व्ही. खासनीस.
5. Introduction to Community – Recreation – Bultter.
6. Organisation of Physical Education – J. P. Thomas.

Paper-VI :

Rules of games & Sports

40 Marks

A) Rules

B) Ground Marking

C) Officeting

1) Trak And Field

2) Foot-Ball

3) Soft-Ball

4) Basket-Ball

5) Badmintan (shattal)

6) Wrestling

Paper-VII

Anatomy and Physiology

40 Marks

(Two periods for theory and two periods for practicals per week- A batch of 20 students for practical periods.)

I) **Introduction :**

- a) Anatomy, Physiology and Physiology of exercises –Meaning, definition and importance.
- b) The cell and its parts –

II) **A) Skeletal System :**

1. Structure and classification of bones.
2. Difference of bones.
3. Functions of skeletal system.

B) **Muscular System :**

1. Structure of skeletal muscle, Smooth muscle and Cardiac muscle.

III) **A) Respiratory System :**

1. The nose, pharynx, larynx, trachea, bronchioles, lungs structure and functions.
2. Vital capacity – Second wind.

V) **Circulatory System :**

- A) Blood – Its constituents and functions, working of heart.
- B) Blood pressure, Pulse, Blood groups, Oxygen debt.

VI) **Digestive System :**

A) Mouth, teeth, salivary glands, pharynx, oesophages, stomach, small and large intestine pancreas, liver, structure and function – in brief.

B) Excretory System :

Kidney and skin Structure and function

IX) **Nervous System :**

Structure of brain and spinal cord, Reflex action.

Reference Book

1. Anatomy and Physiology for nurses – E. Pearce.
2. Human Anatomy and Physiology – King & Shaver.
3. Physiology & Anatomy – Smart & Macdowel.
4. शरीरशास्त्र – रचना व कार्य – डॉ. व्ही. एल. लेकावळे
5. शरीरशास्त्र – रचना व कार्य – डॉ. साठे
6. शरीरशास्त्र व शरीर शिक्षण – ले. आर.डब्ल्यू. गॅलोचे अनुवाद – के. रा. पालकर, ग्रीन आणि कं. 1947.
7. शरीर व व्यायाम – एच. व्ही. पटवर्धन

Paper-VIII

Dietics and Hygiene

40 Marks

(Two periods for theory + two periods for practicals per week. A batch of 20 students for practical periods.)

Unit-I : आहार घटक

प्रोटीन, कार्बोहाईड्रेट, चरबीयुक्त पदार्थ, जीवनसत्त्वे, क्षारयुक्त पदार्थ व पाणी

Unit-II : समतोल आहार

व्याख्या घटक

Unit-III: आहाराचा परिणाम

- A) नैसर्गिक आहार B) भेसळयुक्त आहार c) प्रक्रियायुक्त आहार
D) उत्तेजक पदार्थ

Unit-IV: अथलेटिक आहार घटक

Books Recommended

1. Handbook of Hygiene and Public Health – U. Bedi, Anand Publishing Company, Amritsar, 1962.
2. Nutrition and Physical Fitness – Bogert, Briggs and Calloway, W.B. – Saunders Co. 1966.
3. Human Nutrition and Dietics – Davidson and Passmore, The Williams and Wilkins Co., 1966.
4. सुलभ शरीर विज्ञान – आरोग्य शास्त्र, डॉ. नातू, प्रा. सोवनी
5. आरोग्याची गुरुकिल्ली – डॉ. गुंडे, कोल्हापूर.
6. Preventive and Social Medicine J. E. Park.
7. Nutrition – Dr. Swaminathan

Practical (New Course) applicable from June, 2010 and onwards.

175	Practical Marks
25	Project
200	<u>Total Marks(Paper IV to VIII)</u>

(Paper IV to VIII)

Practical Syllabus

1. Athletics –Tripple Jump, Javelin Throw, Hurdles (110 Meters) Long distance run – 5000 Meter Run, Relay Race 4x100 m., Hammer Throw
(Gents – any five items).
Javelin Throw, Hurdles (100 Meters) Relay (4x100 Meters) Triple –Jump, 3000 meter running, Hammer Throw, Pole-vault [Ladies-any five items]
Different styles, Modern Techniques and Performance.
2. A) Weight Lifting/Badminton /Judo Different Styles, Modern Technique and performance for Weight Lifting / Judo skills and Performance for Badminton.
3. Asanas –
A) TEN Minutes sitting in any meditative Asanas.
B) Matsyasana, Akarna Dhanurasana Suptavajrasana, Ardhamatsyantrasana, Buddha Padmasana.
C) Pranayama – Anulom Vilom, Bhastrika, Bhramari, Shitkari, Shitali.
4. Gymnastics – Ground Exercises.
5. First Aid – Practical.

- A) First Aid – Meaning, objectives, important rules.
 B) Material in the First Aid box.
 C) Fracture – types, signs and symptoms – use of sling and splint.
 D) Bleeding – types, signs and symptoms – use of sling and splint.
 E) Artificial Respiration – Meaning and method of artificial respiration.(any two)
 F) Bandage – Meaning, types, ways of applying sling, simple dressing.
6. Marking of the Track – 400 Meter Running.
 7. One ball game- Croquet or Foot-Ball
 8. Journal-Project/प्रकल्प— खेळ, खेळसाहित्य, खेळाडू, सोयीसुविधा, स्पर्धा इ. यापैकी कोणत्याही विषयावर प्रकल्प करणे.

MARKING SYSTEM

Practical Examination

Marks-200

	Gents	Ladies
A) Athletics	40	40
B) Weight Lifting/Badminton/Judo	20	20
C) Asanas & Pranayama	30	30
D) Gymnastics	25	25
E) First Aid	20	20
F) Marking of Track	25	25
G) Ball Game	15	15
H) Project	25	25
Total :	200	200

Norms for the Practical Examination

- A) Athletics (40 Marks) Gents :** Any five items (Triple Jump, Javelin Throw, 110 Meters Hurdles, 5000 m. Run., Pole Vault, Relay (4x100), Hammer Throw.)

10 marks per item. (divided as under)

(5 marks Technique and style, 5 marks performance)

Triple Jump – GENTS

Marks	Minimum Performance
5	9 Meters and above.
4	8 to 9.9 Meters.
3	7 to 8.9 Meters
2	6 to 7.9 Meters

Javelin Throw –

Marks	Minimum Performance
5	25 Meters and above.
4	22 to 29.99 Meters.

3	19 to 26.99 Meters
2	16 to 23.99 Meters

110 Meters Hurdles –

Marks	Minimum Performance
5	20 Seconds and below.
4	20.01 to 24 Seconds.
3	24.01 to 26 Seconds
2	26 Seconds and above.

5000 Meter Running

Marks	Minimum Performance
5	30 Minutes
4	34 Minutes.
3	36 Minutes
2	38 Minutes and above.

2) Pole Vault

Marks	Minimum Performance
5	2.50 Meters and above.
4	2.25 Meters to 2.99
3	2.00 Meters to 2.39
2	1.80 Meters to 2.19

3) Relay Marks : (4x100 m)

Marks	Minimum Performance
5	Viva-Voce only.
4	
3	
2	

4) Hammer Throw –

Marks	Minimum Performance
5	20 meters
4	18 meters
3	16 meters
2	14 meters

N.B. : 5 Marks for technique (For above any five items each.)

Women

Javelin Throw –

Marks	Minimum Performance
5	20 Meters and above.
4	18 Meters.
3	16 Meters
2	14 Meters

Hurdles (100 Meters) –

Marks	Minimum Performance
5	24 Seconds and below.
4	24.01 to 26 Seconds.
3	26.01 to 28 Seconds
2	28.01 to 30 Seconds and above.

Relay Marks : (4x100 m)

5	
4	Viva-voce only
3	
2	

3000 meter Run -

Marks	Minimum Performance
5	15 minutes
4	16 minutes
3	17 minutes
2	18 minutes

Triple Jump –

Marks	Minimum Performance
5	8 Meters
4	7 Meters.
3	6 Meters
2	5 Meters

Hammer Throw –

Marks	Minimum Performance
5	16 meters
4	15 meters
3	14 meters
2	13 meters

Pole-Vault –

Marks	Minimum Performance
5	2.50 meters
4	2.25 meters
3	2.00 meters
2	1.75 meters

N.B. 5 Marks for technique (For above any FIVE items each)

B) Weight Lifting OR Badminton – 20 Marks (For Gents only)

Badminton OR Judo – 20 marks (for ladies only)

10 Marks for Performance (both styles)

Marks	Minimum Performance
10	115 Kg.
9	110 Kg
8	105 Kg.
6	95 Kg.
5	85 Kg
4	75 Kg.

- 10 Marks for technique. Marks

i) Fundamental Skill 5

ii) Rules & Regulations (Oral) 5

C) Badminton Judo – 10 Marks for performance & 5 marks for technique
5 marks for rules and regulations oral test.

3. **Asanas** – 30 Marks

A) 10 minutes sitting in any – Meditative asana – 10 Marks.

B) From Section (b) of the practical syllabus

Two asanas of student choice - 5 Marks

Two asanas of examiners choice - 5 Marks

C) From Section (c) of the practical syllabus

One pranayama from student choice - 5 Marks

One pranayama of examiners choice - 5 Marks

(From the following pranayams) Anulom vilom, Bhastrikar Bhramari,
Shitkari Shitali,

D) Gymnastics - (Any five of the following items)

Total Marks-25

1. Forward roll 2. Backward role

3. Dive roll 4. Cartwheel

5. Hand Stand 6. Hand Spring

7. Neck Spring 8. Head Spring

9. Summer Sault (Forward or Backward)

5 marks for per item (4 marks for performance – 1marks for grace)

E) First Aid – Total Marks -20

i) Oral Knowledge Test 10 Marks

ii) Practical Knowledge Test 10 Marks

(Use of bandages –

Use of splint – Use of tourniquet.

Artificial respiration and simple dressing)

F) Marking of Track (400 Meters) Total Marks -25

(Students should marks the sectors of the following events, on the ground only.) (Shot-put – Javelin – Discus Throw

- A) Sector Marking for above three events 6 Marks
(3 Marks for sector)
- B) **Marking of 400 Meter Track**
- ... Marking of 400 M. Track 5
 - ... Marking of Starting and Finishing line 5
(100 M.R. 100 M. Hurdles, 110 Hurdles)
 - ... Marking of stragglers Distance 5
(200 M.R., 400 M. R., 800 M.R.)
- Marking of exchange zone (4 marks)
- 4x100 m. Relay ... 2 Marks
- 4x 400 m. Relay ... 2 Marks
- G) **Ball Game -** Total Marks : 15
(Any one of the following games)
Football, Hockey, Cricket, Tennis, Table – Tennis.
- (A) Fundamental skills 10 Marks
 - (B) Rules and Regulations 5 Marks
(Tested Orally)
- H) (Record Book) **Project** 25 Marks
- 1) Separate heads of passing.
- a) Theory papers – Minimum passing 14 Marks
 - b) Practical's – Minimum Passing 14 Marks
 - c) Total passing (Theory and Practical)
Minimum 28 Marks – Out of 80 marks.
- 2) Practical examination conducted –
- a) Each batch of 20 students
 - b) One organizer (Internal subject teacher)
 - c) Two examiners appointed by University.
 - d) Peons – Two peons for ground marking, water supply and equipment supply and collecting of materials.
 - e) Result sheet (Practical)

Exam No.	Athletics	Weight Lifting	Asanas	Gymna	First Aid	Track Mark	One Ball Game	Journal	Total
	40	20	30	25	20	25	15	25	200

N.B. 3) Theory papers shall be of two hours duration carrying 40 marks. There will be three questions, first two of which will be having internal option carrying 30 marks. The third question will be of short answer type question and will carry 12 marks & Objective types will carry 8 Marks.

N.B. 4) Two periods for theory + two periods for Practical for each paper – per week.

N.B. 5) The record book will be assessed by Internally and marks should be submitted to the external examiner.

B.A.- III (Opt.)
(Phy. Education)

**The equivalence of the pre-revised course (2004-2005) with the revised course
(2010-2011)**

Pre – Revised (2004-2005)	Revised Course (2010-2011)
Paper-IV Health Education	Paper-IV Health Education
Paper-V Rhythms and Recreation in Physical Education	Paper-V Recreation in Physical Education
Paper-VI : “Applied Yoga”	Paper-VI : Rules of games & Sports
Paper-VII Anatomy and Physiology	Paper-VII Anatomy and Physiology
Paper-VIII Dietics and Hygiene	Paper-VIII Dietics and Hygiene

बी.ए.भाग-3 शा. शिक्षण तसेच योगा स्टडीज (ऐच्छिक) पेपर क्र. 4 ते 8 या विषयाकरीता शैक्षणिक वर्ष 2010- 2011 पासून 80:20 पॅटर्ननुसार प्रश्नपत्रिकेचे स्वरूप खालील प्रमाणे लागू राहिल

(अ) प्रात्याक्षिक परीक्षा -	40 गुण
(ब) लेखी परीक्षा -	40 गुण
(क) महाविद्यालयीन अंतर्गत परीक्षा -	20 गुण
एकूण गुण -	100 गुण

लेखी प्रश्नपत्रिकेचे स्वरूप

गुण:- 40

वेळ:- 2 तास

प्रश्न 1	दीर्घ उत्तराचा प्रश्न किंवा दीर्घ उत्तराचा प्रश्न	10 गुण
प्रश्न 2	दीर्घ उत्तराचा प्रश्न किंवा दीर्घ उत्तराचा प्रश्न	10 गुण
प्रश्न 3	टीपा द्या (एकूण 5 पैकी 3)	12 गुण
प्रश्न 4	अ. पर्यायी	4 गुण
	ब. एका वाक्यात उत्तरे द्या.	4 गुण

टीप:- 3 (ब) खालील प्रमाणे आहे.

10 गुण-दोन स्वाध्याय (Two Home Assignments) / प्रकल्प लेखन/ तोंडी परीक्षा/ चर्चासत्र/ गटचर्चा (Group discussion)/ शैक्षणिक सहल वृतांत या पर्यायापैकी कोणताही एक पर्याय निवडता येईल.

Shivaji University, Kolhapur

CBCS Syllabus for B.A.I HISTORY (from June 2018)

Semester I, Paper I: Rise of the Maratha Power (1600-1707)

(Objectives: The period from 1600 to 1707 was an important epoch in the history of Marathas. Chhatrapati Shivaji Maharaj established the Maratha state. Later, Chhatrapati Sambhaji, Chhatrapati Rajaram and Maharani Tarabai led the Maratha struggle of independence against the Mughal rule. The primary aim of this course is to introduce students to the history of the rise of Maratha power with main emphasis on life and work of Chhatrapati Shivaji Maharaj. The course is also expected to apprise the students with the sacrifices made by Maratha leaders and people to protect freedom and sovereignty of the region)

Module 1- Chhatrapati Shivaji Maharaja's achievement till 1664

- a. Background of the Rise of Maratha Power
- b. Early activities upto 1659; Afzalkhan Episode and Siege of Panhala
- c. Shahistekhan Episode and Attack on Surat

Module 2-Chhatrapati Shivaji Maharaja's achievement till 1680

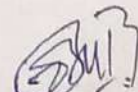
- a. Treaty of Purandar and Visit to Agra
- b. Coronation
- c. Expedition to Karnataka

Module 3- Maratha War of Independence (1681-1707)

- a. Chhatrapati Sambhaji Maharaj
- b. Chhatrapati Rajaram Maharaj
- c. Maharani Tarabai

Module 4-Importance of Sources for understanding Maratha history

- a. Sources (Sanskrit and Marathi): Shivbharat, Adnyapatra
- b. Persian sources: Tarikh-i-Dilkusha, Muntakhab-ul-Lubab
- c. Foreign records and accounts: English and Portuguese


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CBCS Syllabus for B.A.I HISTORY (from June 2018)

Semester II, Paper II: Polity, Society and Economy under the Marathas (1600-1707)

(Objectives: 1600 to 1707 was a period of rapid change in the history of Marathas. Chhatrapati Shivaji Maharaj established the Maratha state and initiated fundamental changes in the political, socio-economic and cultural life of the people. The course is designed to acquaint the students with the political, socio-economic and religious life of the people during the 1600-1707 period. It will educate the students about the policy and contribution of Chhatrapati Shivaji Maharaj)

Module 1- Polity

- a. Civil administration: administrative structure, Ashtapradhan
- b. Judicial administration: judicial structure, gotsabha, divya
- c. Military administration: forts and navy

Module 2- Economy


- a. Agriculture: types of land and crops, revenue settlement, irrigation
- b. Industry: local craftsmen and major Industries
- c. Trade: trade centers, trade routes, transport and communications

Module 3- Society and Religion

- a. Village communities: Vatandar, Mirasdar, Balutedar-Alutedar and Upare
- b. Pandharpur movement
- c. Pilgrimage Centers: Kolhapur, Shikhar Shinganapur, Tuljapur

Module 4-Chhatrapati Shivaji Maharaj: Policy and Contribution

- a. Administration and Management
- b. Trade and Agriculture
- c. Religion


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Syllabus - B.A.-II SEMESTER - III

PAPER III- HISTORY OF MODERN MAHARASHTRA (1900 to 1960)

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 04 (introduced from June 2019)

The first sixty years of 20th century was a period of great upheaval in Maharashtra. The events and changes that took place during this period made a lasting impact on the polity, society and economy of the region. The identity of Maharashtra region was forged during this period. This course introduces the students to the key historical events and transformations which have played an important role in making of modern Maharashtra. After studying the course the student will be able to...

CO1. Understand the beginnings and growth of nationalist consciousness in Maharashtra

CO2. Explain the contribution of Maharashtra to the national movement

CO3. Give an account of various movements of the peasants, workers, women and backward classes

CO4. Know the background and events which led to the formation of separate state of Maharashtra.

MODULE-1 Rise and Growth of Nationalism

a) Rise of Nationalism

b) Contribution of Gopal Krishna Gokhale

c) Contribution of Lokmanya Tilak

MODULE -2 Role of Maharashtra in the National Movement

a) Revolutionary Movement

b) Non-Cooperation Movement

c) Civil Disobedience Movement with special reference to the uprising in Solapur

d) Quit India Movement with special reference to Prati Sarkar Movement

MODULE -3 Social Movements

a) Peasants and Workers

b) Women's rights

c) Emancipation of Backward Classes

MODULE -4 Samyukta Maharashtra Movement

a) Background

b) Contribution of the Samyukta Maharashtra Samiti

c) Events leading to the formation of Maharashtra State


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Syllabus B.A.-II SEMESTER - IV

PAPER- V: HISTORY OF MODERN MAHARASHTRA (1960-2000)

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 04 (introduced from June 2019)

After 1960 a new period of development began in the state of Maharashtra. The eminent leaders played a pioneering role in this period of rapid transformation. This was also a period of massive expansion of education as well as social transformation. This course introduces the students to significant leaders, events and transformations in history of Maharashtra. After completion of the course, the student will...

CO1. Acquaint himself with the contribution of eminent leaders of Maharashtra

CO2. Know about the economic transformation of Maharashtra

CO3. Understand the salient features of changes in society

CO4. Explain the growth of education

MODULE -1 Leaders:

a) Congress : Y B Chavan, Vasantdada Patil

b) Socialist: Nagnath Nayakawadi, S M Joshi, P K Atre

c) Communist: Comrade S.A. Dange

MODULE -2 Major Issues and Events

a) Agriculture Development with special reference to role of Vasant Rao Naik

b) Industry –Sugar (Pravara Sugar Factory) and Milk (Aarey Dairy Mumbai)

c) Natural Disasters (Earthquakes- Koyna 1967 and Latur 1993)

MODULE -3 Social Movements

a) Muslim Satyashodhak Samaj

b) Satyashodhak Communist Party


c) Vidrohi Movement

MODULE -4 Educational Development

a) Primary

b) Secondary

c) Higher and Technical Education


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Syllabus B.A.-II SEMESTER - III

PAPER IV: HISTORY OF INDIA (1757-1857)

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 4 (introduced from June 2019)

This course will acquaint the students with the history of India under British rule. It will help the students to understand how the East India Company established and consolidated its rule in India. They will know about the impact of colonial rule on the Indian Economy. It will also familiarize the students with the revolts against the company rule. After studying this course, the student will...

CO1. Acquaint himself with significant events leading to establishment of the rule of East India Company

CO2. Know the colonial policy adopted by the company to consolidate its rule in India

CO3. Understand the structural changes initiated by colonial rule in Indian economy.

CO4. Explain the various revolts against rule of the East India Company.

Module- 1 Establishment of Company rule in India

- a) Causes for establishment of Company rule
- b) Struggle with Native Powers (Bengal and Mysore)
- c) Struggle with Marathas

Module -2 Making of a Colonial Policy

- a) Dual Government – Robert Clive
- b) Subsidiary Alliance - Lord Wellesley,
- c) Doctrine of Lapse - Lord Dalhousie,

Module -3 Making of a Colonial Economy

- a) Land revenue settlements- (Permanent Settlement, Ryotwari, Mahalwari)
- b) De-industrialization
- c) Drain of Wealth

Module -4 Revolts against Company Rule

- a) Tribal Revolts
- b) Revolt of 1857
- c) Queen's Proclamation of 1858 and its effects


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Syllabus B.A.-II SEMESTER – IV

PAPER VI: History of Freedom Struggle (1858-1947)

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 04 (introduced from June 2019)

The course is designed to study the freedom struggle in India from 1858 to 1947. It will familiarize the students with events leading to emergence of national consciousness in India. They will be acquainted with the prolonged struggle launched by the Indian National Congress under the leadership of Mahatma Gandhi. They will also know about the struggle of the revolutionaries, leftists and the Indian National Army. The course will introduce students to the concept of Communalism and the process which led to the partition of India. After completion of this course, the student will be able to...

CO1. Understand the events which lead to the growth of nationalism in India

CO2. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi

CO3. Explain the contribution of Revolutionaries, Left Movement and Indian National Army

CO4. Know the concept of Communalism and the causes and effects of the partition of India

Module- 1 Rise of Nationalism

- a) Formation of Indian National Congress
- b) Contribution of Moderates
- c) Contribution of Extremists (Swadeshi Movement and Home Rule Movement)

Module -2 Gandhian Era

- a) Non-Cooperation Movement
- b) Civil Disobedience Movement
- c) Quit India Movement

Module -3 Other Strands

- a) Revolutionary Movement
- b) Leftist Movement
- c) Subhash Chandra Bose and Indian National Army

Module -4 Communalism and Partition

- a) Concept of Communalism
- b) Causes for Partition
- c) Effects of Partition



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Syllabus B.A.-II SEMESTER - III

IDS PAPER I: SOCIAL REFORMS IN INDIA

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 04 (introduced from June 2019)

This course is conceived to introduce the students to the social and religious change in India expressed in various social reform movements. Students will explore the significance and impact of prominent social and reform movements. It will help the students to understand how the ideals of rationalism, humanism and universalism were encouraged by the Indian social reformers. The course will attract students from a wide variety of social science disciplines. After completion of the course, the student will be able to ...

- CO1. Understand the salient features of prominent socio-religious reform movements
- CO2. Explain the thought and work of Mahatma Phule for radical transformation of Indian society
- CO3. Know the measures taken by Rajashri Shah Maharaj for emancipation of lower classes and women
- CO4. Understand the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India
- CO5. Know how the Indian constitution embodies the values of social justice and equality

MODULE-1 Socio-Religious Reform Movements

- a) Raja Ram Mohan Roy and Brahma Samaj
- b) Swami Dayanand Saraswati and Arya Samaj
- c) Swami Vivekanand and Ramakrishna Mission

MODULE-2 Mahatma Phule

- a) Educational and Social Work
- b) Satyashodhak Samaj
- c) Thoughts of Mahatma Phule (with special reference to Shetkaryancha Asud and Gulamgiri)

MODULE-3 Rajashri Shahu Maharaj

- a) Educational and Social upliftment of lower classes
- b) Women's Rights
- c) Hostel Movement

MODULE-4 Dr Babasaheb Ambedkar

- a) Thoughts on Annihilation of Caste
- b) Mahad Incident and the Temple entry movement
- c) Social Justice and Indian Constitution


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Syllabus B.A.-II SEMESTER - IV

IDS PAPER- II: SOCIAL REFORMS IN MAHARASHTRA

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 04 (introduced from June 2019)

Fundamental changes took place in the society of Maharashtra during the 18th and 19th centuries. The beginnings of Western education, press and industrialization made a lasting impact on the thinking of people. Eventually some reform-oriented people started movements to reform the society. This course introduces the students to the salient features of social reforms in Maharashtra. After studying the course, the student will be able to...

CO1. Know about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prarthana Samaj.

CO2. Understand the contribution of women reformers

CO3. Explain the contribution of Social reformers in the fight for social justice

CO4. Explain the role played by educational reforms in transformation of society.

MODULE-1 Beginnings of Social Reform

a) Social condition in early 19th century

b) Paramhansa Mandali

c) Prarthana Samaj

MODULE -2 Women Reformers

a) Savitribai Phule

b) Tarabai Shinde

c) Pandita Ramabai

MODULE -3 Social Reformers

a) Lahuji Salve

b) Maharshi Vitthal Ramji Shinde

c) Gadage Maharaj


d) Annabhu Sathe

MODULE -4 Educational Reforms

a) Karmaveer Bhaurao Patil

b) Dr. Bapuji Salunkhe

c) Punjabrao Deshmukh


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Ancient Indian History & Culture (AIHC) (IDS) Paper-1

B.A - II, Sem - III (Syllabus)

UNIT-1 Early Humans

- a. Hunter-Gatherers (Paleolithic and Mesolithic)-Life ways
- b. Settlers (Neolithic)-Life ways
- c. Megalithic (with special reference to Maharashtra)

UNIT -2 Harappan Civilization

- a. Town Planning
- b. Economic and Religious Life
- c. Decline of Harappan civilization

UNIT-3 Vedic Culture

- a. Vedic Literature (Vedas and Upanishads)
- b. Political and Economical Life
- c. Social and Religious Life

UNIT -4 India in 6th Century BC

- a. Second Urbanization
- b. Jainism
- c. Buddhism
- d. Ajivikas



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Mahavidyalaya, Kavathe Mahankal,
Dist.-Sangli.

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Ancient Indian History & Culture (AIHC) (IDS) Paper-II

B.A-II, Sem-IV (Syllabus)

UNIT-1 Mauryan Empire

- A. Chandragupta Maurya and the foundation of Empire
- B. Ashoka and his Dhamma
- C. Literature, Art and Architecture

UNIT-2 The Age of Satvahana and Kushana

- A. Major rulers of Satvahanas: Satkarani I and Gautamiputra Satkarni
- B. Major ruler of Kushanas: Kanishka C. Literature, Art and Architecture

UNIT-3 Gupta and Post-Gupta period

- A. Major Gupta Rulers: Samudragupta and Chandragupta II
- B. Harshavardhana
- C. Literature, Art and Architecture

UNIT 4 Legacy of Ancient India

- A. Monuments: Town-planning (Dholavira), Stupa (Sanchi), Kailas Temple (Ellora),
Chaitya- Vihara (Karle).
- B. Paintings (Ajanta) and Sculptures (Gandhara and Mathura style)
- C. Literature and Science: Epics (Ramayana and Mahabharata) and Drama of Kalidas;
Ayurveda and Yoga


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B.A. Part -III, (History) Semester -V, Course VII DSE E-61

Paper VII : Early India (from beginning to 4th c. BC)

Course Objectives: This course explores the major historical developments in India from the beginning to the 4th Century B.C. It traces the history of the Indian subcontinent from the Paleolithic period to the establishment of the Mauryan state. The student will be introduced to the political, social, economic and religious developments in India during this formative period. This course will help the students to understand how India came to be. They will know the facts about the early period of Indian history up to the 4th century B.C. They will get an introduction to the beginnings of India's political, socio-economic and cultural dynamics and understand the legacy of Ancient India.

Course Outcomes:

After studying the course the student will be able to ...

- 1) Understand the transition of humans in India from Hunters to Farmers
- 2) Explain the transition from Early to Later Vedic period.
- 3) Clarify the causes for the first and second urbanizations
- 4) Give an account of the teachings of Gautama Buddha and Vardhamana Mahavira
- 5) Describe the rise and growth of the Mauryan Empire
- 6) Explain the salient features of Ashoka's Dhamma

Module I: The Beginning

- a) The Hunter-Gatherers: Paleolithic and Mesolithic
- b) The Early Farmers: Neolithic and Chalcolithic
- c) The First Urbanization: Harappan Civilization
- d) The Megalithic Nomads: Burial types, nature of remains

Module II: The Vedic Age and Epics

- a) Vedic literature b) Transition from Early to Later Vedic period: Polity and Economy
- c) Transition from Early to Later Vedic period: Society and Religion
- d) The Epics: Ramayana and Mahabharata

Module III: The Second Urbanization

- a) Nature of second urbanization b) Emergence of Regional States (16 Maha-janapadas)
- c) Gautama Buddha- His teachings d) Vardhamana Mahavira- His teachings

Module IV: The Mauryan Empire

- a) Sources: Arthashastra and Indica b) Chandragupta Maurya and Ashoka
- c) Mauryan administration d) Ashoka's Dhamma


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B.A. Part III

Semester V, Course No: VIII DSE E-62

History of Medieval India (1206-1526 AD)

Course Objectives: This course covers the important period of Medieval Indian History. It was during this period that the Sultans established their rule in India. They introduced fundamental changes in polity, society, religion and culture of India. The course will acquaint the with various sources of medieval Indian history. They will get knowledge about the activities of major rulers and the policies followed by them. The students will know about the agricultural condition, development of trade and industry as well as the social, religious and architectural milieu of the period.

Course Outcomes:

After studying the course the student will be able to...

- 1) Describe the different types of historical sources available for writing the history of medieval India
- 2) Explain the contributions of medieval rulers like Allaudin Khilji, Muhammad-bin- Tughlaq, Krishnadevraya, and Mahmud Gavan
- 3) Give an account of the administration and economy of the Delhi sultanate and Vijayanagar Empire
- 4) Elucidate the significant developments which took place in religion, society and culture

Module I - Sources:

- a) Literary: Tarikh-i- Firozshahi, Amuktamalyada
- b) Archaeological (excluding Monuments)
- c) Account of Foreign Travelers: Ibn Battuta, Domingo Paes

Module II - Major Rulers

- a) Allaudin Khilji: Internal policy and reforms
- b) Muhammad - bin- Tughlaq : Experiment of Token Currency
- c) Krishnadevraya: Military success and cultural contribution
- d) Mahmud Gavan: Contribution to Bahmani Kingdom

Module III - Administration and Economy(Delhi Sultanate and Vijaynagar)

- a) Administration : Central and Provincial
- b) Agriculture and Land Revenue
- c) Industry and Trade

Module IV) Religion, Society and Culture:

- a) Sufi Order: Chishti Silsila; Bhakti Movement: Sant Kabir; Sikh Religion: Guru Nanak
- b) Society: Hindu and Muslim
- c) Architecture: Delhi Sultanate, Vijaynagar and Bahamani.



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B.A. Part III

Semester V, Course No: IX DSE E-6 Age of Revolutions

Course Objectives: This course introduces the students to the pathbreaking events of global history. The students will study the accounts of the causes and consequences of the transformative revolutions which changed the history of mankind. They brought about sudden big changes not only in the country in which they happened but also the world in general. Most of them left a lasting effect on the thought and the socio-political and cultural conditions of mankind. The course has been framed to make the students aware of the change and impact of these revolutionary events.

Course Outcomes:

After studying the course the student will be able to...

- 1) Explain the causes and consequences of the Reformation
- 2) Give an account of the role played by Martin Luther
- 3) Explain the salient features of the Industrial revolution
- 4) Give an account of the American revolution
- 5) Explain the causes, effects and major events of French Revolution
- 6) Explain the role of major leaders of the French Revolution

Module I: Reformation (16th Century)

- a) Causes
- b) Role of Martin Luther
- c) Consequences

Module II: Industrial Revolution (18th Century)

- a) Causes
- b) Major Developments
- c) Effects

Module III: American Revolution (1776)

- a) Causes
- b) Important events
- c) Impact

Module IV: French Revolution (1789)

- a) Causes
- b) Important events and major leaders
- c) Impact on the world


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B.A. Part - III

Semester V, Course No. X DSE E-64

Political History of the Marathas

Course Objectives: The course is designed to study the political condition of Marathas after 1707. The Maratha polity was transformed into the largest political entity of India in the eighteenth century. The course introduces the students to the political developments which led to the expansion of Maratha power in the eighteenth century. It also explores the causes and events which led to the eventual decline of Maratha power.

Course Outcomes:

After studying the course the student will be able to...

- 1) Describe the political conditions of the Marathas upto the year 1740
- 2) Explain the role of Balaji Bajirao.
- 3) Explain the causes and effects of the Battle of Panipat.
- 4) Understand the political condition of the Marathas after 1761.
- 5) Critically analyze the causes for the decline of Maratha power.

Module I: Political condition up to 1740

- a. Release of Shahu; Struggle between Shahu and Maharani Tarabai.
- b. Balaji Vishwanath : Delhi Campaign, Maratha Confederacy
- c. Bajirao Peshwa: Northern Policy, Relations with Nizam

Module II: Balaji Bajirao and Battle of Panipat(1761)

- a. Relations with Angre
- b. Conflict with Raghujji Bhosale
- c. Battle of Panipat-1761

Module: III Political condition after 1761

- a. Madhavrao Peshwa
- b. Mahadji Shinde
- c. Nana Phadnavis

Module IV: Decline of the Maratha Power

- a. Peshwa Bajirao II
- b. Second and Third Anglo- Maratha War
- c. Causes for the decline of Maratha power



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B.A. Part III:

Semester V, Course No. XI DSE E-65

History: Its Theory

(Field visit to any important historical place, monuments and record offices is essential)

Course Objectives: This course has been designed to impart knowledge of the discipline of history to the students. The students will learn the nature and scope of the discipline. They will have a clear understanding of the nature of the evidence collected from primary and secondary sources. They will be introduced to the process of presenting and writing history. They will know the methods of writing history.

Course Outcomes:

After studying the course the student will be able to...

- 1) Understand the definition and scope of the subject of History
- 2) Know the process of acquiring historical data
- 3) Explain the process of presenting and writing history
- 4) Understand the methods of writing history

Module I: History: Definition and Scope

- a) Meaning, Scope and Nature
- b) Types of History
- c) Interdisciplinary Approach

Module II: Acquisition of Historical Data

- a) Sources: Nature and Types
- b) Methods of Data Collection
- c) Methods of Critical Enquiry

Module III: Process of presenting and writing history

- a) Steps of Historical Research
- b) Data Analysis and Interpretation
- c) Presentation

Module IV: Methods of History writing

- a) Notetaking
- b) Footnotes and Endnotes
- c) Index, Appendix, Bibliography



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SEMESTER VI

B.A. Part III Semester VI, Course No. XII DSE E-186

Ancient India (From 4th c. BC to 7th c. AD)

Course Objectives: This course explores the history of India from the 4th century BC to the 7th century A.D. It takes a panoramic survey of the historical developments during this crucial period of Indian history. The course studies the eventful changes which took place under the Satavahana, Kushanas, Guptas, Vakatakas, Chalukyas and Pallavas. The students will be introduced to the incomparably vivid picture of India which prevailed during the ancient period. They will be acquainted with not only the glory of Ancient India but also the social inequality and social evils which have shaped India in the past.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the political, economic and religious developments which took place in early historic India
- 2) Explain the role played by Major Satavahana, Kushana, Gupta and Vakataka Kings
- 3) Give an account of the developments in the Post-Gupta period
- 4) Have an informed opinion about the society and culture of Ancient India

Module I: Early Historic India

- a) Sources: Gatha Saptashati, Periplus of the Erythraean Sea
- b) Major Kings: Satavahana and Kushanas
- c) Industry and Trade
- d) Hinayana Buddhism

Module II: The Classical Age

- a) Major Kings: Guptas and Vakatakas
- b) Economy and Greater India
- c) Literature and Science
- d) Religion

Module III: The Post-Gupta Period

- a) Source: Hiuen Tsang
- b) North India: Harshavardhana
- c) Deccan: Early Chalukyas of Badami
- d) South India: Pallavas

Module IV: Society and Culture

- a) Position of Women and Varna Structure (From Vedic period to Post-Gupta period)
- b) Education
- c) Art (From Mesolithic Art to Ajanta Paintings)
- d) Architecture- (Rock-Cut Caves (Maharashtra) to Constructed Temples (Madhya Pradesh).


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B.A. Part III

Semester VI, Course No. XIII DSE E-187

History of Medieval India (1526-1707 AD)

Course Objectives : This course explores the history of the Mughal period in India. The Mughals introduced fundamental changes in the polity, economy, society, culture and religion of India. The Bahamani kingdom in the Deccan also split up into five smaller kingdoms during this period. In the course the students will be introduced to the important events, personalities and developments in India. They will know the policies followed by important rulers and will acquaint themselves with the general scenario prevalent in India during the period. They will understand how a syncretic culture developed in India during the period.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know about the various sources for writing Medieval Indian history
- 2) Explain the role of rulers like Babar, Akbar, Chandbibi and Ibrahim Adilshah II
- 3) Gain knowledge about the administrative and revenue system
- 4) Describe the condition of Industry and trade
- 5) Explain important developments in religion, society and culture

Module I: Sources

- a) Literary: Akbarnama, Gulshan -i -Ibrahimi
- b) Archaeological (excluding monuments)
- c) Accounts of Foreign Travelers: Francois Bernier, Niccolo Manucci

Module II - Major Rulers

- a) Babar: Battle of Panipat and foundation of Mughal empire.
- b) Akbar: Rajput policy
- c) Chandbibi
- d) Ibrahim Adilshah II

Module III- Administration and Economy

- a) Administration: Central and Provincial
- b) Land Revenue: Akbar and Malik Ambar
- c) Industry and Trade

Module IV: Religion, Society and Culture

- a) Religious Policy: Akbar and Aurangzeb
- b) Society: Hindu and Muslim
- c) Architecture: Mughal and Adilshahi.



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B.A. Part III

Semester VI , Course No: XIV. DSE E-188

Making of the Modern World (16th to 19th Century)

Course Objectives: This course deals with significant events in global history. The primary objective of the course is to introduce the students to the important events which have happened in the world in modern times. These events which were revolutionary in character had a profound impact on the making of the modern world. The students will be acquainted with the events of the Glorious revolution in England. They will understand the causes for the rise and spread of Nationalism and Imperialism. Moreover, they will know about some select important personalities who contributed to the making of the Modern World.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the causes and consequences of the Glorious revolution in England
- 2) Explain the concept of Nationalism and account for its rise and spread.
- 3) Describe the unification of Italy and Germany.
- 4) Give an account of the rise, growth and impact of Imperialism
- 5) Explain the significance of the Partition of Africa
- 6) Know the life and thoughts of important leaders like Metternich, Karl Marx and

Abraham Lincoln

Module I: Glorious Revolution

- a) Causes
- b) Major events
- c) Consequences

Module II: Nationalism

- a) Causes for the rise and spread of Nationalism
- b) Unification of Italy and Germany
- c) Impact

Module III : Imperialism

- a) Causes for rise and growth of Imperialism
- b) Partition of Africa
- c) Impact on the world

Module IV: Important Personalities

- a) Metternich
- b) Karl Marx
- c) Abraham Lincoln



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B.A. Part III

Semester VI, Course No. XV DSE E-189

Polity, Economy and Society under the Marathas

Course Objectives : The objective of the course is to explore the nature of the Maratha polity. It will acquaint the students with the economic and social condition prevalent under Maratha rule. The course will also introduce the students to the sources of Maratha history.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the various sources for writing the history of the Marathas
- 2) Explain the significant developments in the polity of the Marathas
- 3) Describe the economic conditions
- 4) Explain the social conditions.

Module I: Sources

- a. Importance of sources
- b. Indian Sources: Sanskrit, Marathi, Persian
- c. Foreign sources : Portuguese and English

Module II: Polity under the Marathas


- a. Concept of Kingship
- b. Asthpradhan Mandal
- c. Transfer of power – Chhatrapati to Peshwa, Peshwa to Karbhari

Module III: Economic condition

- a. Agrarian system – Land Revenue, Irrigation
- b. Industry
- c. Trade and Commerce

Module IV: Social condition

- a. Social Structure - Family , Untouchability, Vethbegar , Slavery.
- b. Condition of women and caste system
- c. Education and Festivals


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B.A. Part III

Semester VI , Course No. XVI DSE E-190

Methods and Applications of History

Course Objectives: This course has been designed to impart knowledge of the methods of history to the students. The students will understand the nature of archival sources. They will be introduced to the trends of local and oral history and will know about the tools of local history like Survey, Interview and Questionnaire. The students will be introduced to the technique of collecting data through oral interviews. The students will understand the concept of the museum and learn the basic principles of museology. Moreover, the course will introduce the students to the relevance of monumental heritage and its relationship with the discipline of history through the concept of Heritage Tourism

Course Outcomes:

After studying the course the student will be able to...

- 1) Understand the nature of archival sources
- 2) Gain conceptual clarity about recent trends in history.
- 3) Know about the application of history in museums.
- 4) Explain the concept and scope of heritage tourism.

Module I: Archival Sources

- a) Meaning, types, and importance of Archives
- b) Types of Records
- c) Concept of Digital Archives

Module II: Recent Trends in History

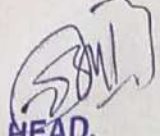
- a) Local History
- b) Oral History
- c) Tools of Local History (Survey, Interview, Questionnaire)
- d) Interview Technique

Module III: Museology

- a) Definition, Nature and Importance of Museum
- b) Types of Museums
- c) Methods of Collection, Conservation and Preservation Techniques of Objects

Module IV -Understanding Heritage Tourism

- a) Concept, Scope and Significance of Heritage Tourism
- b) Meaning and Historical Perspective of Tourism
- c) World Heritage Sites in India


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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

Sociology

(Syllabus to be implemented from June, 2018 onwards.)

**Course Structure for B.A. Sociology
Three Years (6 Semester) Programme**

B.A. I

Sr.No.	Semester	Name of the Course	Disipline
1	I	Introduction to Sociology I	Sociology Course-1
2	II	Applied Sociology II	Sociology Course-2

B.A. II

Sr.No.	Semester	Name of the Course	Disipline
1	III	Sociology of India I	Sociology Course-3
2	III	Sociology of Kinship I	Sociology Course-4
3	IV	Sociology of India II	Sociology Course-5
4	IV	Sociology of Gender II	Sociology Course-6

B.A. III

Sr.No.	Semester	Name of the Course	Disipline
1	V	Sociological Thinkers I	Sociology Course-7
2	V	Sociological Research Methods I	Sociology Course-8
3	V	Urban Sociology OR Sociology of Education	Sociology Course-9
4	V	Environmental Sociology OR Sociology of Work	Sociology Course-10
5	V	Political Sociology OR Gender and Violence	Sociology Course-11
6	VI	Sociological Thinkers II	Sociology Course-12
7	VI	Sociological Research Methods II	Sociology Course-13
8	VI	Agrarian Sociology OR Population and Society	Sociology Course-14
9	VI	Sociology of Health and Medicine OR Indian Society 'Images and Realities'	Sociology Course-15
10	VI	Social Stratification OR Sociology of Media	Sociology Course-16

B.A.PART - I
SEM – I
DSC-B2, SOCIOLOGY-I (50 Marks 4 Credits)
INTRODUCTION TO SOCIOLOGY

Books Recommended:

Davis, Knigsley : Human Society, Macmillan, New York, 1948.

		Teaching Hours	Credits
Module I	Nature of Sociology A) Sociology: Meaning and Subject matter B) Brief outline of Development of Sociology: C) Brief outline of Development of Sociology in India	15	1
Module II	Social Interaction and Social Structure A) Social Interaction: Definition, Stages and Types B) Social Structure: Status and Role, Norms and Values	15	1
Module III	Society and Social Institution A) Society: Meaning, Characteristics and Types B) Social Institution: Meaning and Characteristics	15	1
Module IV	Culture and Socialization A) Culture: Meaning, Characteristics and Elements B) Socialization: Meaning, Stages and Agencies	15	1

Brom, Leonard and Selznick Phillip : Sociology, Raw, Peterson and company, New York,1957

Chinoy, Ely : Society - An Introduction to sociology, Random House, 1961.

Inkeles,Alex : What is Sociology? : Intlewood Cliffs, Inc., prentice Hall, New Delhi 1964

Johnson, Harry M : Society - An Introductory Analysis, Mac Millan & Co. Ltd., London, 1965.

David Dressler and Wills, W.M. : Sociology - The study of Human Interaction, Alfred A Knof, New York, 1976.

Horton and Hunt : Sociology, MacGraw Hill, Tokyo, 1976.

Tischler, H.L. Whitten, Phillip & Hunter, David E.K. : Introduction to sociology, Holt, Rinehart and Winston, 1983.

Harlambos, M. and R.M. Heald : Sociology - Themes and perspectives, Oxford University Press, New Delhi, 1994.

Ram Ahuja; Indian social system, Rawat publications, New Delhi, 2002

Rawat, H. K. : Sociology, Rawat Publications Jaipur, 2007.

Ram Ahuja; Society in India, Rawat publications, New Delhi,2014

Books Recommended (Marathi)

Jadav, Ramesh :Samajshastra (in Marathi) , C.Jamanadas and Co. Mumbai, 1988.

Salunkhe, Sarjero :SamajshstrateelMulbhootSankapana, , Narendra

Publication, AppaBalawant Chowk, Pune, 2006

B.A.PART - I
SEM - II
DSC-B16, SOCIOLOGY – II

(50 Marks 4 Credits)

APPLIED SOCIOLOGY

Books Recommended:

		Teaching Hours	Credits
Module I	Theoretical Approaches in Sociology A) Structural- Functional: August Comte, M. N. Srinivas B) Conflict: Karl Marx , A. R. Desai	15	1
Module II	Society and Mass Media A) Mass Media : Meaning and Characteristics B) Types of Mass Media: Folk Media and Modern Media C) Impact of Mass Media on Society : Print, Electronic and Social Media	15	1
Module III	Social Change in Modern Society A) Meaning of Social Change B) Modernization And Globalization. C)Social Movements: Meaning and Types	15	1
Module IV	Applications of Sociology A)Sociology as a Profession: Policy, Planning, Teaching and Research. B)Career Opportunities: Social Sector(NGO's, Social Welfare Departments)	15	1

Davis,Knigsley : Human Society, Macmillan, New York, 1948.

Brom, Leonard and Selznick Phillip : Sociology, Raw, Peterson and company, New York,1957

Chinoy, Ely : Society - An Introduction to sociology, Random House, 1961.

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Ram Ahuja; Indian social system, Rawat publications, New Delhi, 2002

Christians, C. and Nordenstreng, K. 'Media Responsibility Worldwide'. (2004) Journal of Mass Media Ethics, 2004

Michael Gurevitch, Tony Bennett,James Curran And Janet Woollacott,Culture, society and the media,London And New York 2005

Rawat, H. K. : Sociology, Rawat Publications Jaipur, 2007.

Ram Ahuja; Society in India, Rawat publications, New Delhi,2014

Books Recommended (Marathi)

Bhandarkar, P.L. and Vaidya N.S. :SamajshastriyaSiddhant, Maharashtra Granth Nirmiti Mandal, Nagpur, 1986.
Jadav, Ramesh :Samajshastra (in Marathi) , C.Jamanadas and Co. Mumbai, 1988.
SalunkheSarjero :SamajshstrateelMulbhootSankapana, (in Marathi), Narendra Publication, AppaBalawant Chowk, Pune, 2006
GajananKhatu; Jagatikikaran:ParinamaniParyay,Akshar Prakashan,Mumbai,2001.
C.P.khrer; Jagatikikaran:Samsya,AshayaniAnubhav.Dilipraj Prakashan,Pune,2004
JaganKarade; Jagatikikaran:BharatasamorilAvhane, Diamond publications,pune,2008.

Internet Source :

sockom.helsinki.fi/commedia/Nordenstreng
didik.mercubuana-yogya.ac.id/wp-content/uploads/.../Culture-Society-and-the-Media
[www.ijhssi.org/papers/v3\(6\)/Version-4/L0364056064.pdf](http://www.ijhssi.org/papers/v3(6)/Version-4/L0364056064.pdf)
www.yourarticlelibrary.com/sociology/sociology-uses-careers-and...sociology/31257
<https://study.com/.../why-is-sociology-important-applications-in-public-policy-social-c...>
www.sociologyatwork.org/about/what-is-applied-sociology

EQUIVALENCE

Sr.No.	Semester	Old Name	New Name
1.	I	Introduction to Sociology Sem. I, Paper I	Introduction to Sociology I Sociology Course 1
2.	II	Principle of Sociology Sem. II, Paper II	Applied Sociology II Sociology Course 2

**Course Structure for B.A Sociology
Three Years (6 Semester) Program**

B.A. Part - I : Sociology

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credit	Theory Marks
1.	I	Introduction to Sociology I	Sociology Course-1	4	4 Lectures/ week	08	50
2.	II	Applied Sociology II	Sociology Course-2	4	4 Lectures/ week		50

B.A. Part - II : Sociology

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credit	Theory Marks
1.	III	Sociology of India I	Sociology Course-3	4	4 Lectures/ week	16	50
2.	III	Sociology of Kinship I	Sociology Course-4	4	4 Lectures/ week		50
3.	IV	Sociology of India II	Sociology Course-5	4	4 Lectures/ week		50
4.	IV	Sociology of Gender II	Sociology Course-6	4	4 Lectures/ week		50

B.A. Part - III : Sociology

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credit	Theory Marks	Term work seminar
1.	V	Sociological Thinkers I	Sociology Course-7	4	4 Lectures/ week	20	40	10
2.	V	Sociological Research Methods I	Sociology Course-8	4	4 Lectures/ week		40	10
3.	V	Urban Sociology OR Sociology of Education	Sociology Course-9	4	4 Lectures/ week		40	10
4.	V	Environmental Sociology OR Sociology of Work	Sociology Course-10	4	4 Lectures/ week		40	10
5.	V	Political Sociology OR Gender and Violence	Sociology Course-11	4	4 Lectures/ week		40	10
Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credit	Theory marks	Term work Group project
6.	VI	Sociological Thinkers II	Sociology Course-12	4	4 Lectures/ week	20	40	10
7.	VI	Sociological Research Methods II	Sociology Course13	4	4 Lectures/ week		40	10
8.	VI	Agrarian Sociology OR Population and Society	Sociology Course14	4	4 Lectures/ week		40	10
9.	VI	Sociology of Health and Medicine OR Indian Society 'Images and Realities'	Sociology Course15	4	4 Lectures/ week		40	10
10.	VI	Social Stratification OR Sociology of Media	Sociology Course16	4	4 Lectures/ week		40	10

**B.A. SOCIOLOGY
EQUIVALENCE**

Sr. No.	Class	Semester	Title of the Paper Old	Paper No. Old	Title of the Course (New)
1.	B.A. I	I	Introduction to Sociology Sem. I, Paper I	I	Introduction to Sociology I Sociology Course 1
2.	B.A. I	II	Introduction to Sociology Sem. II, Paper II	II	Applied Sociology II Sociology Course 2
3.	B.A. II	III	Structure of Indian Society Paper III, Sem. III	III	Sociology of India I Sociology Course 3
4.	B.A. II	III	Social Problems in India Part I Paper IV, Sem. III	IV	Sociology of Kinship I Sociology Course 4
5.	B.A. II	IV	Social Change in Indian Society Paper No 5, Sem IV	V	Sociology of India II Sociology Course 5
6.	B.A. II	IV	Social Problems in India Part II Paper IV, Sem. IV	VI	Sociology of Gender II Sociology Course 6
7.	B.A. III	V	Western Sociological Thinkers Paper VII Sem V	VII	Sociological Thinkers I Sociology Course 7
8.	B.A. III	V	Methods of Social Research Paper VIII (Part I), Sem V	X	Sociological Research Methods I Sociology Course 8
9.	B.A. III	V	Rural Sociology Paper IX (A), Sem V	XI	Urban Sociology (A) Sociology Course 9
10.	B.A. III	V	Urban Sociology Paper IX (B), Sem V	VIII	Sociology of Education (B) Sociology Course 9
11.	B.A. III	V	Industrial Sociology Paper X (A), Sem V	IX	Environmental Sociology (A) Sociology Course 10
12.	B.A. III	V	Criminology Paper X (B) Sem V		Sociology of Work (B) Sociology Course 10
13.	B.A. III	V	Social Anthropology Paper XI (A) Sem V	XII	Political Sociology (A) Sociology Course 11
14.	B.A. III	V	Human Rights Paper XI (B) Sem V	XV	Gender and Violence (B) Sociology Course 11
15.	B.A. III	VI	Sociological Thinkers Paper	XVI	Sociological Thinkers II

			XII Sem VI		Sociology Course 12
16.	B.A. III	VI	Methods of Social Research Paper XIII , Sem VI	XIII	Sociological Research Methods II Sociology Course 13
17.	B.A. III	VI	Rural Sociology In India Paper XIV (A), Sem VI	XIV	Agrarian Sociology (A) Sociology Course 14
18.	B.A. III	VI	Urban Sociology In India Paper XIV (B), Sem VI	XIV	Population and S Sociology (B) Course 14ociety
19.	B.A. III	VI	Industrial Sociology Paper XV (A), Sem VI	XIV	Sociology of Health and Medicine (A) Sociology Course 15
20.	B.A. III	VI	Penology Paper XV (B) Sem VI	XIV	Indian Society 'Images and Realities' (B) Sociology Course 15
21.	B.A. III	VI	Social Anthropology Paper XVI (A) Sem VI	XIV	Social Stratification (A) Sociology Course 16
22.	B.A. III	VI	Social Welfare Paper XVI (B) Sem VI		Sociology of Media (B) Sociology Course 16



Estd. 1962

NAAC 'A' Grade

Faculty of Humanities

Syllabus for

B. A. Part II (Sem III & IV)

Sociology

(To be implemented from June, 2019-20)

Equivalence Table

B. A. Part – II (Sem-III)

Paper	Old Syllabus	Paper	New Syllabus
Paper – III	Indian Social Structure	DSC – D3 Paper No- III	Social Issues in India
Paper – IV	Social Problem in India	DSC – D4 Paper No- IV	Social Movement in India
IDS Paper - I	Rural Development	CGE Paper I	Rural Development
IDS Paper - I	Social Ecology	CGE Paper I	Social Ecology

B. A. Part – II (Sem-IV)

Paper	Old Syllabus	Paper	New Syllabus
Paper – V	Social Change in Indian Society	DSC – D31 Paper No- V	Gender and Violence
Paper – VI	Social Problem in Cotemporary India	DSC – D32 Paper No- VI	Sociology of Health
IDS Paper - II	Rural Development	CGE Paper II	Rural Development
IDS Paper - II	Social Ecology	CGE Paper II	Social Ecology

SYLLABUS - Choice Based Credit System

B.A. Part – II - DSC – D3

Semester - III, Paper No.III - Social Issues in India

Sociology Course - 3, June 2019 onwards

Course Objective:

This Course introduces students to Sociological study of Social Issues. This paper aim to draw attention of the students for to need to study 'Socio-Cultural, Economic,' and legal issues in India.

	Topic	Teaching Hours	Credits
Model - I	Social Issues A) Nature of Social Issues B) Classification of Social Issues C) Need for study for Social Issues	15	1
Model - II	Socio-Cultural Issues A) Communalism : Meaning, Causes and Remedies B) Female-Foeticide : Meaning, Causes and Remedies	15	1
Model - III	Socio-Economic Issues A) Poverty : Meaning, Causes and Remedies B) Unemployment : Meaning and Remedies	15	1
Model - IV	Socio-Legal Issues A) Human Rights : History, Fundamental Rights in Indian Constitution B) Cyber Crime : Meaning, Causes and Remedies	15	1

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1. जी.एल.शर्मा : सामाजिक मुद्दे, 2017, रावत पब्लिकेशन, जयपूर.
2. राम आहूजा : सामाजिक समस्या, 2000, रावत पब्लिकेशन, जयपूर.
3. राम आहूजा : सोशल प्रॉब्लेम्स इन इंडिया, 2014, रावत पब्लिकेशन, जयपूर.
4. भार्गव नरेश : वैश्विकरण : समाजशास्त्रीय परिपेक्ष्य, 2014, रावत पब्लिकेशन, जयपूर.
5. राजविवेक एस. : समकालीन भारतीय मुद्दे (समस्या एवं समाधान), 2013-14, सिव्हील सर्व्हीसेस, टाईम्स न्यू दिल्ली.
6. रावत हरिकृष्ण, उच्चतर समाजशास्त्र विश्वकोश, 2014, रावत पब्लिकेशन, जयपूर.

Equivalence of B.A.II Sociology

Sr.No.	Title of Old Paper	Title of New Paper
1.	Sem-III, Paper No.III Indian Social Structure	Sem-III, Paper No.III Social Issues in India

Shivaji University, Kolhapur
SYLLABUS - Choice Based Credit System

B.A. Part – II – DSC – D4

Semester - III, Paper No.IV - Social Movement in India

Sociology Course - 4, June 2019 onwards

Course Objectives :

This paper aims to draw attention to the variety of ideas and debates about India. Further, it critically engages with the multiple socio-political forces and ideologies which shape the terrain of the nation.

	Topic	Teaching Hours	Credits
Model - I	Social Movement A) Meaning and Characteristics of Social Movement B) Elements of Social Movements C) Importance of Social Movement.	15	1
Model - II	Peasant Movement A) Peasant Problems in India B) Major peasant Movement C) Impact of Peasant Movement	15	1
Model - III	Dalit Movement A) Dalit Problems in India B) Major Dalit Movement. C) Impact of Dalit Movement	15	1
Model - IV	Tribal Movement A) Tribal Problems in India B) Major Tribal Movement C) Impact of Tribal Movement	15	1

References :

1. Gandhi and Ambedkar, Ambedkar, B. R., 1971 [1936], Annihilation of Caste, Jullunder: Bheem Patrika
2. Dalit Politics, Shah, G., 2001, Dalit Identity and Politics, New Delhi: Sage Publications, Pp.17-43
3. Mobility and Change, Srinivas, M.N., 1956, 'A Note on Sanskritization and Westernization', The Far Eastern Quarterly, 15(4), Pp. 481-496
4. Women's Movement : Menon, N., (ed.) 1999, Gender and Politics in India, Delhi: Oxford University Press, pp.342-369.
5. Peasant Movements : Pouchepadass, J., 1980, 'Peasant Classes in Twentieth Century Agrarian Movements in India', in E. Hobsbawm (ed.) Peasants in History, Delhi: Oxford University Press, Pp.136-155
6. भारतातील दलित समाज : सुखदेव थोरात, 2009, सेज (Sage) पब्लिकेशन, न्यू दिल्ली.
7. समाजशास्त्रातील मुलभूत संकल्पना : सर्जेराव साळुंखे, निराली प्रकाशन, पुणे.
8. भारतातील सामाजिक चळवळी : घनश्याम शहा, 2014, सेज (Sage) पब्लिकेशन, न्यू दिल्ली.
9. सामाजिक चळवळी आणि सरकार : घनश्याम शहा, अनुवाद – योगिनी वेंगुर्लेकर, 2009, डायमंड पब्लिकेशन, पुणे.
10. भारतातील सामाजिक चळवळी : खंडेरावजी एस. साळुंखे, 2018, निर्मिती संवाद, कोल्हापूर.

Equivalence of B.A.II Sociology

Sr.No.	Title of Old Paper	Title of New Paper
1.	Sem-III, Paper No.IV Social Problem in India	Sem-III, Paper No.IV Social Movement in India

Shivaji University, Kolhapur
SYLLABUS - Choice Based Credit System

B.A. Part – II - DSC – D31

Semester - IV, Paper No.V - Gender and Violence

Sociology Course - 5, June 2019 onwards

Course Objectives :

Gendered violence is routine and spectacular, structural as well as situated. This course attempts to provide an understanding of the logic of that violence, awareness of its most common forms and tries to equip the students with a sociologically informed basis for making pragmatic, ethical and effective choices while resisting or intervening in the context of gendered violence.

	Topic	Teaching Hours	Credits
Module - I	Gender and Violence A) Meaning of Gender B) Nature of Gender Violence C)Major Gender Issues.	15	1
Module - II	Domestic Violence A) Meaning of Domestic Violence B) Dowry : Causes and Remedies C) Divorce : Causes and Remedies	15	1
Module - III	Violence Against Women A) Tribal Women : Nature and Remedies B) Rural Women :Nature and Remedies C) Urban Women : Nature and Remedies	15	1
Module - IV	Womens' Harassment at workplace A) Nature of Womens' Harassment B) Types of Womens' Harassment C) Remedies and Vishakha Guidelines Acts, 2013	15	1

Reference :

1. Kimmel, Michael S. *The Gendered Society*. New York: Oxford University Press, 2011. Chapter 13. Gender of Violence, Pp. 381-407
2. Wies, Jennifer R. *Anthropology at the Front Lines of Gender-Based Violence*.
3. Nashville, Tenn.: Vanderbilt Univ. Press, 2011. Chapter 1. *Ethnographic Notes from the Frontlines of Gender Based Violence*, Pp. 1-18
4. Kannabiran, Vasanth and Kalpana Kannabiran, *Caste and Gender: Understanding Dynamics of Power and Violence*, *Economic and Political Weekly*, Vol. 26, No. 37 (Sep. 14, 1991), pp. 2130-2133.
5. Irudayam, Aloysius, Jayshree P Mangubhai, and Joel G Lee. *Dalit Women Speak Out*. Chapters. 1, 3, 4, 13 and 14.
6. Karlekar, Malavika. *Domestic Violence*, *Economic and Political Weekly*, Vol. 33, No. 27 (Jul. 4-10, 1998), pp. 1741-1751
7. Agnes, Flavia, *'My Story, Our Story: Building Broken Lives'* Mumbai: Majlis. 1984.
8. Chowdhry, Prem. *Enforcing Cultural Codes: Gender and Violence in Northern India*, *Economic and Political Weekly*, Vol. 32, No. 19 (May 10-16, 1997), pp. 1019-1028
9. Wood, E. J. *'Variation in Sexual Violence during War'*. *Politics & Society* 34.3 (2006): 307-342.
10. Butalia, Urvashi. *The Other Side of Silence*. Durham, NC: Duke University Press, 2000. Chapter 4, Pp. 104 - 171
11. MacKinnon, Catharine A. *Only Words*. Cambridge, Mass.: Harvard University Press, 1993. Chapter II Racial and Sexual Harassment. Pp. 43 – 68.
12. Tejani, Sheba. *Sexual Harassment at the Workplace: Emerging Problems and Debates*, *Economic and Political Weekly*, Vol. 39, No. 41 (Oct. 9-15, 2004), pp. 4491-4494

13. Box, Steven. *Power, Crime, and Mystification*. London: Routledge, 1989. Chapter 4. Rape and Sexual Assaults on Women Pp. 120 - 165
14. Scully, Diana and Joseph Marolla. "Riding the Bull at Gilley's": Convicted Rapists Describe the Rewards of Rape, *Social Problems*, Vol. 32, No. 3 (Feb., 1985), pp. 251- 263
15. Menon, Nivedita. *Recovering Subversion: Feminist Politics beyond the Law*. Ranikhet: Permanent Black. 2004. Chapter 3. Sexual Violence: Escaping the Body. Pp. 106 - 156
16. Omvedt, Gail, *Violence Against Women: New Movements and New Theories in India*. Delhi: Kali for Women, 1990. Pp. 1-40
17. Das, Veena & Kim Turcot DiFruscia. Listening to Voices: An Interview with Veena Das, *Altérités*, vol. 7, no 1, 2010 : 136-145.
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19. Wall, Liz. 'Gender equality and violence against women what's the connection?' The Australian Center for the study of Sexual Assault Research Summary. 2014.
20. Welchman, Lynn, and Sara Hossain. "Honour". London: Zed Books, 2005. Chapter 2. 'Crimes of Honour': Value and Meaning Pp. 42-64
21. Loy, Pamela Hewitt, and Lea P. Stewart. 'The Extent and Effects of the Sexual Harassment of Working Women'. *Sociological Focus* 17.1 (1984): 31-43.
22. Pickup, Francine, *Ending Violence against Women: A Challenge for Development and Humanitarian Work*, London: Oxfam, 2001. Chapter 5. Direct support to the survivors of violence & Chapter 8. Challenging the State.

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25. जी.एल.शर्मा : सामाजिक मुद्दे, 2016, रावत पब्लिकेशन, जयपूर.
26. रचना सुचिन्मयी : समसामायिक – राजनितीक मुद्दे, 2016, रावत पब्लिकेशन, जयपूर.

Equivalence of B.A.II Sociology

Sr.No.	Title of Old Paper	Title of New Paper
1.	Sem-IV, Paper No.V Social change in Indian Society	Sem-IV, Paper No.V Gender and Violence

Shivaji University, Kolhapur
SYLLABUS - Choice Based Credit System
 B.A. Part – II - DSC – D32
 Semester - IV, Paper No.VI - Sociology of Health
Sociology Course - 6, June 2019 onwards

Course Objectives :

The course introduces students to the sociology of health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge. Theoretical perspectives examine the dynamics shaping these constructions. Negotiations of health and illness are explored through ethnographies.

	Topic	Teaching Hours	Credits
Model - I	Introduction to Sociology of Health A) Meaning and Nature of Sociology of Health B) Subject Matter of Sociology of Health C) Importance of Sociology of Health	15	1
Model - II	Major Diseases in India A) Diabetes - Causes and Remedies B) Heart Diseases - Causes and Remedies C) Cancer - Causes and Remedies	15	1
Model - III	Lifestyle and Health A) Traditional Lifestyle and Health B) Modern Lifestyle and Health C) Remedies on Health Problems	15	1
Model - IV	Health Policy in India A) Health Policy for Children and Women B) Health Policy for Old Age C) Health Policy for People Below Poverty Line(BPL)	15	1

Reference :

1. Turner, Bryan, S. (1995) *Medical Power and Social Knowledge*. London, Sage, Chapters 1 and 2 and 3. Pages (1-54).
2. Boorse, Christopher (1999) On the distinction between Disease and Illness. In (eds.) James Lindermann Nelson and Hilde Lindermann Nelson, *Meaning and Medicine: A Reader in the Philosophy of Healthcare*, New York: Routledge. (Pages 16-27)
3. Kleinman, Arthur (1988) *The Illness Narratives: Suffering, Healing and the Human Condition*. New York : Basic Books Inc. Publishers. Chapter (Pages 3-30).
4. Fruend, Peter E.S., McGuire, Meredith B. and Podthurst, Linda S. (2003) *Health, Illness and the Social Body*, New Jersey: Prentice Hall. Chapter 9 (Pages 195-223)
5. Morgan, Lynn. Morgan (1987) Dependency Theory and the Political Economy of Health: An Anthropological Critique. *Medical Anthropology Quarterly*, New Series, Vol.1, No.2 (June, 1987) pp. 131-154.
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9. Patel, Tulsi (2012) Global Standards in Childbirth Practices. In (eds.) V. Sujatha and Leena Abraham *Medical Pluralism in Contemporary India*. New Delhi: Orient BlackSwan. (Pages 232-254).
10. Evans- Pritchard, E.E. (2010) The Notion of Witchcraft Explains Unfortunate Events. In (eds.) Byron J.Good, Micheal M. J. Fischer, Sarah S. Willen and Mary-Jo Del Vecchio Good *A Reader in Medical Anthropology : Theoretical Trajectories , Emergent Realities*, Oxford : Wiley- Blackwell, Chapter-2 (Pages 18-25).

11. Baer, Hans A., Singer, Merrill and Susser, Ida (1994) Medical Anthropology and the World System, Westport: Praeger. Chapters 10 and 11 (Pages 307-348)
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15. Nichter, Mark and Mimi Nichter (1996) Popular Perceptions of Medicine: A South Indian Case Study. In Anthropology and International Health. Amsterdam : OPA. Chapter7 (Pages 203-237)
16. Das, Veena, R.K. Das and Lester Coutinho (2000) Disease Control and Immunization: A Sociological Enquiry. In Economic and Political Weekly, Feb. 19-26. Pages 625-632.
17. Qadeer, Imrana (2011) Public Health In India, Delhi: Danish Publishers, Part III, (Pages 221-252).
18. Good, Byron (1994) Medicine, Rationality and Experience: An Anthropological Perspective. Cambridge: Cambridge University Press. Chapter 6. (Pages 135- 165).
19. Annandale, Ellen (1988) The Sociology of Health and Medicine, Cambridge: Polity Press.
20. Banerji, Debabar (1984) The Political Economy of Western Medicine in Third World Countries. In (ed.) John McKinlay Issues in the Political Economy of Healthcare. New York: Tavistock.

Equivalence of B.A.II Sociology

Sr.No.	Title of Old Paper	Title of New Paper
1.	Sem-IV, Paper No.VI Social Problem in Cotemporary India	Sem-IV, Paper No.VI Sociology of Health

Shivaji University, Kolhapur

SYLLABUS

Choice Based Credit System

B.A.II (I.D.S.)

Semester - III

Rural Development (I.D.S.)

Paper No.I - Introduction to Rural Development

Implemented from academic Year 2019-2020.

Objective :

- 1) To understand the importance of Rural Development.
- 2) To create the Rural Development awareness.

	Topic	Teaching Hours	Credits
Model - I	Concept of Rural Development A) Nature B) Characteristics C) Objectives	15	1
Model - II	Role of Government Agencies and NGO's A) Government Agencies : Zilla Parishad, Panchayat Samiti and Grampanchayat B) NGO's	15	1
Model - III	Rural Social Problems A) Poverty B) Problem of Indebtedness C) Problem of Agriculture Labour	15	1
Model - IV	Impact of Stigs Education and Co-operative in Rural Development A) Self Help Groups B) Education C) Co-operatives	15	1

Reference Books :

1. Desai A.R. : Rural Sociology in India, Popular prakashan, Mumbai 1997.
2. Desai Vasant : Rural Development programme and strategies - Vol. I to VI, Himalaya Publishing House, Mumbai, 1988.
3. Dube S.C. : Indian Village
4. Dube S.C. : India's Changing Villages, Allied Publishers Pvt. Ltd., Mumbai 1967.
5. Baviskar B.S. : Politics of Development, Oxford University Press.
6. पंडीत नलिनी : जागतिकीकरण आणि भारत : लोकवाङ्मय, मुंबई.
7. योजना : महाराष्ट्र शासन, मुंबई.
8. लोकराज्य : महाराष्ट्र शासन, मुंबई.
9. कुरुक्षेत्र : भारत सरकार, नवी दिल्ली.
10. खंडागळे चंद्रकांत : ग्रामीण समाजशास्त्र, प्रकाशिका सौ.मायादेवी खंडागळे, सांगली 2005.
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Shivaji University, Kolhapur
SYLLABUS
Choice Based Credit System
B.A.II (I.D.S.)
Semester - IV
Rural Development (I.D.S.)
Paper No.II - Rural Development in India
Implemented from academic Year 2019-2020.

Objective :

- 1) To understand the importance of Rural Development.
- 2) To create the Rural Development awareness.

	Topic	Teaching Hours	Credits
Model - I	Government and Rural Development Programmes A) Mahatma Gandhi National Rural Employment Guarantee Act. B) Education and Adult Education. C) Health and Sanitation with Nirmal Gram in Maharashtra.	15	1
Model - II	Role of Jawaharlal Nehru and Yashwantrao Chavan in Rural Development A) Jawaharlal Nehru: Thoughts and Contribution B) Yashwantrao Chavan: Thoughts and Contribution.	15	1
Model - III	Globalization and its impact on Agriculture A) Meaning and Scope B) Advantage and Disadvantages.	15	1

	C) Impact of Globalization in Agriculture.		
Model - IV	Remedies of Rural Development A) Remedies at Rural Development level. B) Uses of Income Distribution C) Concept of Rural Poverty and it's Remedies.	15	1

Reference Books :

1. Desai A.R. : Rural Sociology in India, Popular prakashan, Mumbai 1997.
2. Desai Vasant : Rural Development programme and strategies - Vol. I to VI, Himalaya Publishing House, Mumbai, 1988.
3. Dube S.C. : Indian Village
4. Dube S.C. : India's Changing Villages, Allied Publishers Pvt. Ltd., Mumbai 1967.
5. Baviskar B.S. : Politics of Development, Oxford University Press.
6. पंडीत नलिनी : जागतिकीकरण आणि भारत : लोकवाङ्मय, मुंबई.
7. योजना : महाराष्ट्र शासन, मुंबई.
8. लोकराज्य : महाराष्ट्र शासन, मुंबई.
9. कुरुक्षेत्र : भारत सरकार, नवी दिल्ली.
10. खंडागळे चंद्रकांत : ग्रामीण समाजशास्त्र, प्रकाशिका सौ.मायादेवी खंडागळे, सांगली 2005.
11. कट्यारसिंह-अनिल शिशोदिया (2016) ग्रामीण विकास, सेज पब्लिकेशन, न्यू दिल्ली.

Equivalence of B.A.II Rural Development (I.D.S.)

Sr. No.	B.A.II (Old)	Sr. No.	B.A.II (New)
1)	Introduction to Rural Development Sem.III	1)	Introduction to Rural Development Sem.III
2)	Rural Development in India Sem. IV	2)	Rural Development in India Sem. IV

Shivaji University, Kolhapur

SYLLABUS
Choice Based Credit System
B.A.II (I.D.S.)
Semester - III

SOCIAL ECOLOGY (I.D.S.) PAPER - I
Implemented from academic Year 2019-2020 onwards.

Objective :

- 1) To understand the importance of social ecology.
- 2) To create environmental awareness.
- 3) To control and try to ride over the environmental Problems, facing present generation.

	Topic	Teaching Hours	Credits
Unit - 1	Social Ecology A) Subject Matter of Social Ecology B) Ecosystem C) Importance of Social Ecology	15	1
Unit - 2	Biodiversity and its Conservation A) Meaning of Biodiversity B) Threats to Biodiversity C) Conservation of Biodiversity	15	1
Unit - 3	Environmental Pollution A) Water Pollution B) Air Pollution C) Noise Pollution	15	1
Unit - 4	Environmental Ethics A) Meaning of Environmental Ethics B) Need of Environmental Ethics C) People's Participation and Protection of Environment.	15	1

Reference Books :

1. Marten Gerald G 'Human Ecology'-Basic concepts for sustainable development, Earthscan Publication London, 2001.
2. Mukherji Radhakamal 'A study in social ecology' Popular Prakashan Bombay.
3. Dunlap Riley E and Michelson William 'Handbook of environmental Sociology' Rawat Publication, Jaipur 2008.
4. Agarwal S.K. 'Environmental scenario for 21st century' A P H publishing corporation New Delhi, 2003.
5. Swarup R., Mishra S., Jauhari V.P. 'Encyclopaedia of Ecology environment and pollution control An introduction to man his environment Mittal Publications, New Delhi, 1992.
6. प्रा.प्रकाश सावंत, 'पर्यावरण अभ्यास' फडके प्रकाशन, कोल्हापूर, 2005.

Shivaji University, Kolhapur

SYLLABUS

Choice Based Credit System

B.A.II (I.D.S.)

Semester - IV

SOCIAL ECOLOGY (I.D.S.) PAPER - II

Implemented from academic Year 2019-2020 onwards.

Objective :

- 1) To understand the importance of social ecology.
- 2) To create environmental awareness.
- 3) To control and try to ride over the environmental Problems, facing present generation.

	Topic	Teaching Hours	Credits
Unit - 1	Human Ecology A) Subject Matter of Human Ecology B) Population Growth and Degradation of Environment. C) Relationships Between Man and his Environment	15	1
Unit - 2	Types of Human Settlement A) Tribal Settlement B) Rural Settlement C) Urban Settlement.	15	1
Unit - 3	Problem of Global Warming A) Meaning of Global Warming B) Causes of Global Warming C) Measures to Control Global Warming	15	1
Unit - 4	Environmental Movements A) Types of Environmental Movements. B) Role of NGO's in Protection of Environment. C) Environmental Protection Act's	15	1

Reference Books :

1. Marten Gerald G 'Human Ecology'-Basic concepts for sustainable development, Earthscan Publication London, 2001.
2. Mukherji Radhakamal 'A study in social ecology' Popular Prakashan Bombay.
3. Dunlap Riley E and Michelson William 'Handbook of environmental Sociology' Rawat Publication, Jaipur 2008.
4. Agarwal S.K. 'Environmental scenario for 21st century' A P H publishing corporation New Delhi, 2003.
5. Swarup R., Mishra S., Jauhari V.P. 'Encyclopaedia of Ecology environment and pollution control An introduction to man his environment Mittal Publications, New Delhi, 1992.
6. प्रा.प्रकाश सावंत, 'पर्यावरण अभ्यास' फडके प्रकाशन, कोल्हापूर, 2005.

Equivalence of B.A.II Social Ecology (I.D.S.)

Sr.No.	Title of Old Paper	Title of New Paper
1.	Social Ecology (IDS)	Sem-III Social Ecology Paper - I
		Sem-IV Social Ecology Paper - II

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.A. Part-III

Sociology

Syllabus to be implemented from

June, 2020 onwards.

Shivaji University, Kolhapur.

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – V, DSE – E66 SOCIOLOGY – VII

WESTERN SOCIOLOGICAL THINKERS

(June, 2020 onwards)

A) Course Objectives

Objective of teaching sociological Thinkers to undergraduate students is to enable them to apply theory to their own everyday life experiences.

This requires that students develop their sociological imagination and the capacity to read each situation sociologically and then to think about it theoretically.

To this end, it is imperative that sociological theory courses demonstrate the applicability of theory to students.

B) Course Learning Outcomes:

1. Understanding the grand foundational themes of sociology.
2. Application of theories and concepts from classical sociological theories to develop intellectual openness and curiosity.
3. Appreciation of the classical concepts and theories to develop awareness of the limits of current knowledge.

C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	AUGUSTE COMTE A) Law of Three Stages B) Concept of Positivism. C) Social Statics and Social Dynamics.	15	1
Module -II	KARL MARX A) Dialectical Materialism B) Theory of Class Conflict C) Theory of Alienation	15	1

Module -III	EMILE DURKHEIM A) The Study of Social Facts B) Theory of Division of Labour C) Theory of Suicide	15	1
Module -IV	MAX WEBER A) The Ideal Type B) Theory of Social Action C) Types of Authority.	15	1

D) Teaching Learning Process:

1. The students are encouraged to read the original texts and the teacher often participates in the reading process. Thereby the teacher engages in active, rather than passive, pedagogy.
2. It is important that the classroom sessions, initiated either by the student or the teacher, would encourage teamwork and draw students towards learning, yet there are other means available now which add to that. The use of digital/ICT generated techniques (audio-visual aids).

E) Assessment Methods:

1. Class assignments/term papers, theme(s) of which are chosen following teacher student discussion, is one of the ways of assessing the subject and writing skill of the students.
2. Tutorial discussion oral presentations and viva-voce, short individual/team led field studies/projects and seminars/workshops are other modes of assessment. These are included in the Internal Assessment (IA) system.
3. Mid-semester examination is another mode of assessment. Here again, the topic(s) on which the students are to be examined are chosen through teacher-student consultation. Mid-semester examination tests the students on the grasp of the topic(s) in particular and the discipline in general.
4. The end-semester examination is conducted by the university and the student is tested and evaluated on the basis of the entire paper (syllabus). S/he is expected to have a full knowledge of the paper and prescribed readings.

NOTE: Visit to University Library

F) REFERENCES:

1. Abraham Francis Modern sociological Theory, Delhi Oxford University press,1982
2. Abraham Francis 'Sociological Thought', Madras Macmillan,1991
3. Aron Raymond Main Currents In Sociological Thought,Vol.I & II
4. Coser A.Lewis 'Masters of Sociological Thought' Rawat publications Jaipur 1996
5. Delaney Tim 'Contemporary Social Theory,Investigation and Application'
6. Haralambos & Holborn Sociology : Themes and Perspectives Published by
Harper Collins Publishers Ltd.London W6 8JB 2008
7. Ritzer George Classical Sociological Theory, 4th edition,Nework, Mc-grawhill
publication. 1996.

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – V, DSE – E67 SOCIOLOGY– VIII

METHODS OF SOCIAL RESEARCH (Part-I)

(June, 2020 onwards)

A) Course Objective:

1. The course is a general introduction to the methodologies of sociological research. It will provide the student with elementary knowledge of the complexities and philosophical underpinnings of research.

B) Course Learning Outcomes:

1. Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, methods and analysis of data. Some knowledge of elementary statistics is also provided to the students to acquaint them with quantification of data.

2. The thrust of the course is on empirical reasoning, understanding and analysis of social reality, which is integral to the concepts of quantitative research. Students learn to differentiate between qualitative and quantitative aspects of research in terms of collection and subsequent analysis of data.

3. Through the competing theoretical perspectives and methodologies, students are able to understand that social reality is multi-faceted, heterogeneous and dynamic in nature.

4. By imparting the knowledge of theory and praxis of research, students are prepared to arrive at a critical understanding of the course. It also equips them with necessary skills for employment in any social research organization.

C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module-1	Introduction to social Research a. Philosophy of social science b. Meaning and objectives of social research c. Scientific Steps in Social Research d. Relation between theory and fact	15	01
Module -2	Research Design a. Meaning and Nature of Research Design b. Explorative c. Descriptive d. Experimental	15	01
Module -3	Basic Elements of Social Research a. Concepts-meaning and characteristics		

	b. Variable- meaning and Types c. Hypothesis- meaning and Sources	15	01
Module -4	Modes of Enquiry a. Quantitative Research : meaning and characteristics b. Qualitative Research: meaning and characteristics c. Importance of Quantitative and Qualitative Research	15	01

D) Teaching - learning process:

- a. A research methods course will require a robust class room discussion on various aspects of the course leading to a clearer understanding of concepts and research methods and the production of knowledge.
- b. Interactive classroom sessions contribute to the development of group skills including listening, brainstorming, communicating and negotiating with peers.

E) Assessment Methods: Assessment for this course will be based on written assignments, projects, project designs and presentations.

NOTE: Organise One Day Workshop on Research Methodology

F) Reference Book :

- Durkheim, E.** 1958, The Rules of Sociological Method, New York: The Free Press
- Weber, Max.** 1949, The Methodology of the Social Sciences, New York: The Free Press
- Radcliffe-Brown, A.R.** 1958, Methods in Social Anthropology, Delhi: Asia Publishing Corporation
- Beitelle, A.** 2002, Sociology: Essays on Approach and Method, New Delhi
- Goode, W. E. and P. K. Hatt.** 1952. Methods in Social Research. New York: McGraw Hill.
- Srinivas, M.N.** et al 2002(reprint), The Fieldworker and the Field: Problems and Challenges in Sociological Investigation, New Delhi
- Bryman, Alan.** 2004, Quantity and Quality in Social Research, New York: Routledge
- Merton, R.K.** 1972, Social Theory & Social Structure, Delhi: Arvind Publishing House

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – V, DSE – E68 SOCIOLOGY – IX

POLITICAL SOCIOLOGY

(June, 2020 onwards)

A) Course Objective:

This course aims to acquaint the students with the major concepts, theoretical approaches and perspectives of political sociology. It seeks to prepare the students to apply these concepts and approaches to the understanding of the nature of the political processes and institutions in India. The course also exposes the students to the emerging perspective on the polity-society relationship in contemporary times.

B) Course Learning Outcomes:

1. An ability to comprehend the embeddedness of political and the social in each other.
2. Familiarity with different theoretical and conceptual issues in political sociology and a capacity to use them to grasp political phenomena in a cross-cultural and comparative perspective
3. Be able to understand and appreciate the diversity of ways in which politics operates historically and spatially to generate a more expansive notion of the realm of the political.
4. Be able to understand the relationship between state and society in shaping politics in India both historically and analytically.
5. Be able to generate hypotheses and research questions within the theoretical perspectives and ethnographic contexts in political sociology.

C) Course Content:

	Topic and Sub- Topic	Teaching Hours	Credits
Module - I	Nature of Political Sociology A) Definition and Subject Matter of Political Sociology B) Emergence of Political Sociology C) Importance of Political Sociology	15	1

Module - II	Basic Concepts in Political Sociology A) Power: Meaning and Nature B) State: Meaning and Nature C) Civil Society: Meaning and Nature	15	1
Module - III	Study of Perspectives to Political Sociology A) Perspectives on Power: Weberian, Marxist and Ambedkarian B) Perspectives on State: Liberal, Pluralist, Power-elite, Post-modernist	15	1
Module - IV	Political parties in India A) Political parties: characteristics and social composition. B) Pressure groups and Interest groups: characteristics and political significance. C) Major Political Parties and Their Principles	15	1

D) Teaching-Learning Process:

Teaching learning process in this paper has to be interactive and reflective as majority of students are more often disinterested in questions concerning the political. Teachers should encourage students to read the daily newspaper and peruse electronic journals which would animate the conceptual and analytical aspects of the course with real socio-political events from the students' immediate contexts. Use of audio-visual resources, mainly documentaries will be made an integral part of learning in this course.

E) Assessment Methods:

Assessment in this paper will be in the form of written assignments, book reviews, film reviews, class presentations, projects, and class test.

F) Keywords:

Power, Authority, Resistance, Politics, Elite, State, Democracy, Citizenship, Rights, Para-Political Systems, Post-Colonialism

NOTE: 1) Visit to Vidhansabha / Vidhanparishad

2) Visit to any Gram Sachivalaya / Corporation

G) Reference Book(s)

1. Bendix, R. and S. M. Lipset (Eds.). *Class, Status and Power*. London: RKP, 1966.
2. Bhargava, R. *Secularism and its Critics*. New Delhi: OUP, 1999.
3. Bottomore, T. *Elites and Society*. Harmondsworth: Penguin, 1966.
4. Chakravarty, A. *Contradiction and Change*. Delhi: OUP, 1975.
5. Dahl, R. *Who Governs?* New Haven: Yale University P, 1961.
6. Desai, A.R. *State and Society in India: Essays in Dissent*. Bombay: Popular Publication, 2000
7. Gerth, H.H. and C.W. Mills (Eds.). *From Max Weber: Essays in Sociology*. London: RKP, 1948.
8. Key, V.O. *Politics, Parties and Pressure Groups*. NY: Crowell, 1964.
9. Kohli, A. *India's Democracy: An Analysis of Changing State-Society Relations*. Princeton: Princeton University P, 1990.
10. Kohli, A. *The State and Poverty in India: The Politics of Reform*. Cambridge: Cambridge University P, 1999.
11. Kothari, R. *Caste in Indian Politics*. Delhi: Orient Blackswan, 2008.
12. Laclau, E. *Politics and Ideology in Marxist Theory*. London: Verso, 2012.
13. Miller, D. *On Nationality*. Oxford: Clarendon Press, 1995.
14. Mills, C.W. *The Power Elite*. NY: OUP, 2000.
15. Nash, K. *Contemporary Political Sociology*. Massachusetts: Blackwell Publishers, 2000.

16. Robinson, M. S. *Local Politics: the Law of the Fishes*. Delhi: OUP, 1988.
17. Runciman, W.G. *Social Science and Political Theory*. Cambridge: CUP, 1969.
18. Taylor, G. *The New Political Sociology: Power, Ideology and Identity in an Age of Complexity*. London: Palgrave Macmillan, 2010.
19. Vora, R. and S. Palshikar (Ed.) *Indian Democracy*, Delhi: Sage, 2004.
20. Weber, M. *Economy and Society*. Berkeley: University of California P, 1978.

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – V, DSE – E69 - SOCIOLOGY – X

HUMAN RIGHTS

(June 2020 onwards)

A) OBJECTIVES:-

- 1.To Provide the conceptual understanding about the human rights.
2. To understand the nature and role of Human Rights in India.
3. To understand violation of Human Rights in India.

B) Course Learning Outcomes:

After completion of program students will able to-

- 1)Conceptual understanding about the Human Rights
- 2)Identify issues and problems relating to the realization of human rights
- 3)Understand the nature & role of human rights in India
- 4) Contribute to the resolution of human rights issues and problems
- 5)Educate the society about the human rights and duties in order to create responsible citizenry

C) Course Content:

	Topic and Sub- Topic	Teaching Hours	Credits
Model - I	HUMAN RIGHTS A) Meaning and Characteristics of Human Rights B) History of Human Rights in India (Ancient Period to After Independent Period) C) Perspectives of Human Rights. (Sociological Perspective and Modern Perspectives -Jeromi J.Shestoak)	15	1
Model - II	UNITED NATIONS ORGANIZATIONS AND HUMAN RIGHTS A)Universal Declaration of Human Rights,1948 B)International Covenant on Economic ,Social and cultural Rights,1966 C) International Covenant on civil and Political Rights,1966	15	1
Model - III	HUMAN RIGHTS IN INDIA A)Indian Constitutions and Human Rights B) National Human Rights Commission in India (Structure and Role) C) Function of National Scheduled Castes and Scheduled Tribe commission in India	15	1
Model - IV	VIOLATION OF HUMAN RIGHTS IN INDIA A)Human Trafficking B)Mob Lynching C)Honor Killing	15	1

D) Teaching-Learning Process:

Teaching learning process in this paper has to be interactive and reflective as majority of students are more often disinterested in questions concerning the human rights. Teachers should encourage students to read the daily newspaper and peruse electronic journals which would animate the conceptual and analytical aspects of the course with real sociological Perspective events from the students' immediate contexts. Use of audio-visual resources, mainly documentaries will be made an integral part of learning in this course.

E) Assessment Methods:

Assessment in this paper will be in the form of written assignments, book reviews, film reviews, class presentations, projects, and class test, Seminar .

F) Keywords:

Human Rights, Castes ,Tribe ,Political Rights, Violation ,Human Trafficking
Moab Lynching, Honor Killing

S

NOTE: 1) Visit to Old Age Home, Orphanage, etc

G) REFERENCE :

Anthony M.J	Social action through courts ,ISI ,New Delhi ,1997.
Bhatia K.L	Law and social change Towards 21st Century, Deep and Deep ,New Delhi ,1994
Bose A.B	Social Security for the old myth and reality ,Center for Public& Governance Institute of applied Manpower Research by Concept Pub. Company .New Delhi,2006
Crampton Helen M.	Social welfare :Institution and Process,Random and Keiser Keneth K. House Inc ,New York,1970
	Social Policy and Social Development in India
Kulkarni P.D	Social Policy and social Development in India,ASSWI,Madras,1979
Pathak s.	Social;An Evolutionary and Development Perspective,Welfare McMillan ,Delhi,1981.
Patil	The Economics of Social Welfare in India, Somayya, Bombay,1978
कोतापल्ले लक्ष्मण	भारतातील सामाजिक कल्याण, प्रशासन आणि समाज कार्य, विद्या प्रकाशन, औरंगाबाद
जी.एल.शर्मा	सामाजिक मुद्दे, रावत पब्लिकेशन्स, २०१५
य.च.म.मु.वि.नाशिक	मानवी हक्क आणि भारतीय राज्यघटना
य.च.म.मु.वि.नाशिक	मानवी हक्क आणि अंमलबजावणी यंत्रणा

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – V, DSE – E70 SOCIOLOGY – XI

SOCIOLOGY OF RELIGION

(June, 2020 onwards)

A) COURSE OBJECTIVE

1. This course exposes students to the distinctiveness of the sociological approach to the study of religion.
2. The individual and the group encounter religion and/or religious phenomenon in myriad ways be it through custom, ritual, beliefs or other practices. Students will be familiarized with the basic theoretical and methodological perspectives on the study of religion and also exposed to ethnographic texts on various aspects of religious phenomenon.
3. The last section of the course touches upon some aspects of religion in contemporary times such as secularization and multiculturalism.

B) COURSE LEARNING OUTCOMES:

1. Students will be acquainted with representative texts that symbolize the development of knowledge in the field of Sociology of Religion. They will be able to identify different theories, approaches and concepts that make up the study of religion, distinguish between them and also use terms specific to the field in specific context.
2. Students will be able to make a link between texts and paraphrase their arguments and use these to communicate their ideas in research papers, projects and presentations.
3. By encompassing contemporary developments the course enables students to think about linkages between religion and society at various levels.

C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	Understanding Religion A) Sociology of Religion: Meaning , Scope and Subject matter B) Religion : Definition and Characteristics C) Basic Concepts in Religion 1) Belief and Rituals 2) The Sacred and Profane	15	1
Module -II	Perspectives to Study of Religion A) Perspectives of Religion: Durkheim and Weber B) Perspectives of Religion in India: Mahatma Phule and Dr. B. R. Ambedkar	15	1

Module -III	Religions in India A) Hinduism, Islam B) Buddhism, Christianity C) Jainism, Sikhism D) Satya Dharma and Shiv Dharm	15	1
Module -IV	Religion and Social Change A) Socio- Religious Movements B) Religion and Violence C) Religion and Commercialization D) Secularism and National Integration	15	1

D)Teaching -Learning Process:

Teaching learning process in this paper has to be interactive and reflective. Teacher should encourage students to utilize print and electronic media for acquiring knowledge regarding recent status and trends of religion.

E) Assessment Methods:

Assessment in this paper will be from of written assignments, seminars and class test.

F)Key Words;

Religious Belief, Rituals, Sacred, Profane, Magic, Violence, Secularism, National Integration.

NOTE: Visit to Any Religious place and Understand its Structure and Functioning

G)Reference Books

1. Baird, Robert D. "Religion in Modern India". Manohar, Delhi, 1995.
2. Madan, T.N.(Ed), Religion in India", Oxford University Press, New Delhi, 1992.
3. Muzumdar, H.T. "India's Religious Heritage", Allied New Delhi, 1996.
4. Roberts, Keith A. "Religion in Sociological Perspective", Donsey Press, New Delhi, 1984.
5. Prabhu, Pandharinath H. "Hindu Social organization: A Study in Socio-Psychological and ideological Foundations", Popular Prakashan, Bombay, 1963.
6. Dsouza, Leela. "Sociology of Religion".
7. Pias, Richard. "Sociology of Religion".
8. Salve, R.N. "Buddhism and Education", Shruti, Jaipur, 2008.
9. डॉ. विधाधार पुंडलिक . " धर्माचे समाजशास्त्र" कॉन्टीनेटल प्रकाशन २००३,
10. डॉ. प्रदीप आगलावे . " समाजशास्त्र संकल्पना आणि सिद्धांत " साईनाथ प्रकाशन नागपूर २००९
11. डॉ. दा . धो . काचोळे . " भारतीय समाजरचना " कैलाश प्रकाशन औरंगाबाद १९९८
12. डॉ. बी . एम . कऱ्हाडे " समाजशास्त्र मुलभूत संकल्पना " पिंपळापुरे प्रकाशन , नागपूर २०११
13. मंगला आठलेकर " धर्म आणि हिंसा " राजहंस प्रकाशन पुणे २०१७
14. डॉ. ज्योती डोईफोडे " भारतीय समाज " विद्या प्रकाशन औरंगाबाद

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E191 SOCIOLOGY – XII

INDIAN SOCIOLOGICAL THINKERS

(June 2020 onwards)

A) Course Objectives

Objective of teaching Indian Sociological Thinkers to undergraduate students is to enable them to apply theory to their own Indian Social life experiences. This requires that students develop their sociological imagination and the capacity to read each situation sociologically and then to think about it theoretically. To this end, it is imperative that sociological theory courses demonstrate the

applicability of theory to students.

B) Learning Outcomes:

1. Understanding the characteristics and dynamics of the social world, and how postclassical sociologists attempt to understand the social world.
2. Appreciating the relevance and limits of the contemporary theories or theoretical approaches to make sense of social reality.
3. Understanding the basic methodological approaches of the thinkers, through some original texts and their role in building sociological knowledge.

C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	G.S.GHURYE A) Ideas on National Unity and Interaction B) Study on Caste C) Study on Indian Tribes	15	1
Module -II	A.R.DESAI A) Study of Village Structure in India B) Study of Indian Nationalism C) Analysis of Indian Society through Marxian Perspective	15	1

Module -III	M. N. SRINIVAS A) Concept of Sanskritization B) Concept of Westernization C) Concept of Dominant Caste	15	1
Module -IV	IRAWATI KARVE A) Concept of Kinship Relations B) Hindu Culture: An Interpretation C) Views on Maharashtra	15	1

D)Teaching learning process:

The students are encouraged to read the original texts and the teacher often participates in the reading process. Thereby the teacher engages in active, rather than passive, pedagogy.

It is important that the classroom sessions, initiated either by the student or the teacher, would encourage teamwork or draw students towards learning, yet there are other means available now which add to that. The use of digital/ICT generated techniques (audio-visual aids).

E)Assessment Methods:

1. Class assignments/term papers, theme(s) of which are chosen following teacherstudent discussion, is one of the ways of assessing the subject and writing skill of the students.
2. Tutorial discussion oral presentations and viva-voce, short individual/team led field studies/projects and seminars/workshops are other modes of assessment. These are included in the Internal Assessment (IA) system.
3. Mid-semester examination is another mode of assessment. Here again, the topic(s) on which the students are to be examined are chosen through teacher-student consultation. Mid-semester examination tests the students on the grasp of the topic(s) in particular and the discipline in general.
4. The end-semester examination is conducted by the university and the student is tested and evaluated on the basis of the entire paper (syllabus). S/he is expected to have a full knowledge of the paper and prescribed readings.

NOTE: Visit to University Library

F) REFERENCES:

1. Nagala B.K. 'Indian Sociological Thought' '
2. V.S.Upadhyay and Gaya Pandey 'History of Anthropological Thought'
3. Narendra K. Singh 'Theory and Ideology in Indian Sociology'
4. T. K. Ommen and P.N. Mukharjee 'Indian Society: Reflections and Introspections'
5. A.R. Desai 'Social Background Of Indian Nationalism'
6. A.R. Desai 'Rural India In Transition'
7. T. N. Madan 'Western Sociologists on Indian Society'
8. Yogendra Singh 'Indian Sociology : Social Conditioning and Emerging Concerns'
9. S.K. Pramanik 'Sociology of G.S. Ghurye'
10. Devdas Pillai 'Indian Sociology Through Ghurye : A Dictionary'
11. A.R. Momin 'The Legacy Of G.S. Ghurye'
12. M.N. Srinivas 'Social Change In Modern India'

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E192 SOCIOLOGY – XIII

METHODS OF SOCIAL RESEARCH (Part-II)

(June, 2020 onwards)

A) Course Objectives

1. The course provides an introductory, yet comprehensive engagement with social research.
2. Through theoretical and practical knowledge students are acquainted with the different stages of the research process like creation of research design, methods of data collection and analysis.
3. The imparted knowledge and training will enable students to develop a sound understanding of both quantitative and qualitative research.

B) Course Learning Outcomes:

1. Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, methods and analysis of data. Some knowledge of elementary statistics is also provided to the students to acquaint them with quantification of data.
 2. The thrust of the course is on empirical reasoning, understanding and analysis of social reality, which is integral to the concepts of quantitative research. Students learn to differentiate between qualitative and quantitative aspects of research in terms of collection and subsequent analysis of data.
 3. Through the competing theoretical perspectives and methodologies, students are able to understand that social reality is multi-faceted, heterogeneous and dynamic in nature.
 4. By imparting the knowledge of theory and praxis of research, students are prepared to arrive at a critical understanding of the course. It also equips them with necessary skills for employment in any social research organization.
3. Periodic tests/mid-semester examination of the covered syllabus is also undertaken by the students during the academic session. End-semester examination is conducted by the University of Shivaji.

C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module -1	Sampling and Data collection a. Meaning and Purpose of Sampling b. Types of sampling c. Advantages and Limitation of Sampling d. Primary and secondary Data collection	15	01
Module -2	Observation a. Observation: Meaning and characteristics b. Types of Observation c. Advantages and limitations of observation	15	01

Module -3	Interview and Questionnaire a. Interview-meaning and Types b. Advantages and limitations of interview c. Questionnaire- meaning and Types d. Advantages and limitations of Questionnaire	15	01
Module -4	Data Analysis and Report Writing a. Use of computer in data analysis b. Statistical methods c. Report Writing	15	01

D) Teaching-Learning Process:

1. Classroom lectures interlink the sociological theories previously taught with the methods and techniques of data collection. Students are encouraged to construct questionnaires and conduct interviews, use technology like online surveys to develop practical research skills.
2. The use of statistics enables the students to understand both qualitative and quantitative aspects of social research.
3. Alternative pedagogical techniques like outdoor learning through field trips and research projects, audio-visual technology in classrooms provides them with both research related knowledge and experience.

E) Assessment Methods:

1. Tutorials are given regularly to students after the completion of a topic. The objective is to assess the understanding of the student regarding the covered topic.
2. Students are expected to submit individual/team project reports, along with making oral presentations of the same in class.

<p>NOTE: Organise Guest Lecture/Seminar on Social Research Methodology</p>

F)Books for References:

- Ahuja Ram:** Research Methods, Rawat Publication, Jaipur 2015
- Ghosh B.N.:** Scientific Methods and Social Research, Sterling Publishers, New Delhi,1982
- Kothari C.R.:** Research methodology: Methods and Techniques, Wiely Eastern, New Delhi, 1992
- Lal Das D.K:** Designs of social Research, Rawat Publication, Jaipur,2008
- Young P.V.:** Scientific Social Surveys and Research, Prentice -Hall of India, New Delhi, Fourth edition fifteen Reprint,2003

संदर्भा साठी ग्रंथ (मराठी)

आगलावे प्रदीप : संशोधन पद्धती: शास्त्र व तंत्रे, विद्या प्रकाशन, नागपूर
घाटोळेरा.ना.: सामाजशास्त्रीयसंशोधन -पद्धती आणि तत्त्वे, मंगेश प्रकाशन

नागपूर,

बोधनकर सुधीर : सामाजिक संशोधन पद्धती,साईनाथ प्रकाशन,नागपूर

रानडे पुष्पा : प्राथमिक सांखिकी आणि संशोधन पद्धती,डायमंड प्रकाशन, पुणे,

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REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E193 SOCIOLOGY – XIV

SOCIAL ANTHROPOLOGY

(June, 2020 onwards)

1. To provide the conceptual understanding about anthropology

2. To understand the social aspects of tribal's in India.

	Topic	Teaching Hours	Credits
Model - I	INTRODUCTION TO SOCIAL ANTHROPOLOGY A) Social Anthropology: Meaning and Characteristics B) Relation Between Social Anthropology and Sociology C) Field work Method and its Characteristics D) Importance of Social Anthropology	15	1
Model – II	TRIBAL SOCIETY IN INDIA A) Tribal Society : meaning and Characteristics B) Social life : Family ,and Marriage - Characteristics C) Economic Life : Characteristics D) Religious Life : Beliefs and practices	15	1
Model – III	TRIBAL PROBLEMS A) Poverty and Indebtedness B) Land Alienation C) Illiteracy and Exploitation D) Religious Crisis	15	1
Model - IV	Tribal Community in Maharashtra: Pardhi A) Socio-Cultural life : Tradition and Change B) Economic life : Tradition and Change C) Religious life : Tradition and Change D) Social Movements for Development of Pardhi Community	15	1

NOTE: Visit to Any Tribal and Nomadic Tribe Community

REFERENCE:-

- Vidyarthi L.P. Tribal Culture of India, Concept Publishers, New Delhi, 1976.
E.E. Evans Pritchard Social Anthropology and Other Essays, The free Press, New York, 1962.
Mujumdar D.N. and Madam T.N An Introduction to Social Anthropology, Asia Publishing House, Bombay, 1973.
संगवे विलास सामाजिक मानवशास्त्र, पॉप्युलर प्रकाशन, मुंबई, १९६९.
नाडगोडे गुरुनाथ भारतीय आदिवासी, कॉन्टीनेंटल प्रकाशन, पुणे, १९९८.
संगवे विलास आदिवासींचे सामाजिक जीवन ए पॉप्युलर प्रकाशन, मुंबई
K. S. Tribal Situation in India, Indian Institute of Advanced Study, Simla, 1972.
S.L. Doshi & P. C. Jain
Social Anthropology Rawat Publicaiton, 2001.
Mane Lximan , Vimuktayan , Yashvantrav chavan prtishthan, Satara 1994 (Marathi)
Prabhune Girish, Pardhi, Rajhans Prakashan, pune. 2006 (Marathi)

- Pawar Deepak, Pardhi Samajache Antrang,
Shree Sainath Prakashan, Nagapur. 2014 (Marathi)
Chavan Ramnath, Bhatakya vimukantanchi Jatpanchayat, Deshmukh ani company
Pune. 2006 (Marathi)

Journals:

- i) हाकारा (Hakara)
 - ii) Social Change (New Delhi)
 - iii) Man in India (Ranchi)
 - iv) Tribal research bulletin (Marathi and English)
Tribal Research Institute Pune.
 - v) Human Ecology : Journal of manenvironmental relationship Kamlaraj,
Enterprises Delhi.
- Ritzer George Sociological Theory, Tata Mcgraw Hill, 1996
Morrison, Ken Marx,
Durkheim, Weber
Formation of Modern Social Thoughts, Sage london 1995.

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E194 SOCIOLOGY – XV

RURAL SOCIOLOGY

(June, 2020 onwards)

A) Course Objectives:

1. To communicate Agriculture as the foundational material practices at the heart of the formation of social collectivities and make sense of South Asian societies agrarian formations.
2. To familiarize students with rural situation past and present with the help of necessary theories and categories.
3. To make sense of rural communities, their structure, transformation and trials and tribulations in modern world.
4. To introduce students to the rich legacy of theoretical and empirical work in rural sociology and its continued relevance.

A) Course Learning Outcomes:

1. An empathy for and ability to engage rural communities as living societies and understand grasp they condition as human condition.
2. An appreciation of rural world and familiarity with the trajectory of theoretical conversation on rural issues and their social, political and policy implications.
3. An understating of emerging as well as enduring issues of concern in Indian rural society
4. To be ready for a range of academic and professional roles that may require a knowledge of rural societies.

C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -1	Introduction to Rural Sociology A) Meaning of Rural Sociology B) Origin, Scope and Subject Matter of Rural Sociology C) Importance of Rural Sociology with the reference of India	15	01
Module-2	Indian Rural Community A) Village studies in India B) Classification of Indian Villages C) Changing Nature of Rural Community in India	15	01

Module -3	Social Institutions in Rural Society A) Marriage, Family and kinship Institution B) Caste and Balutedari C)Political life : structure and change	15	01
Module-4	Changing Indian Agrarian Society A) Rural Cooperative and Rural Industry B)Markets, Land Reforms and Green Revolution C)The Agrarian Issues	15	01

D) Teaching Learning Process:

The teaching learning for this course involves lectures, tutorial conversations around contemporary issues of concern for agrarian societies and extensive usage of imaginative literature and films that makes the lived world of peasantry and rural communities come alive to the students.

E) Assessment Methods:

Recommended evaluation would be an assignment that tests the conceptual grasp of the students and a project that prompts students to engage in research about a historical or contemporarily rural issue.

NOTE: Visit to village and Grampanchayat and Understand its Structure and Rural Development Programs

F) References:(English)

BeteilleAndre:Caste, Class and Power, Oxford University press, (India),New Delhi, (2012).

Beteille Andre: 'The Study of Agrarian Systems: An Anthropological Approach', from Marxism and Class Analysis, New Delhi: Oxford. 2007.

Bandopadhyay :'Reflections on Land Reform in India since Independence' from T. V. Satyamurthy (Ed.) Industry and Agriculture in India Since Independence, Delhi: Oxford University Press.

Desai A.R.:Rural Sociology in India Popular Prakashan, Bombai,(1969 reprint 2009) .

Dhanagare, D. N.: 'Green Revolution and Social Inequalities in Rural India' from, Economic and Political Weekly, Vol. 22, No. 19/21, Annual Number (May, 1987),

Dube SC: Indian Village, Routledge, New York, (Second edition 2018)

Mukherjee Ramkrishna: The Dynamics of a Rural Society, Akademie -Verlag, Berlin, (1957)

Oommen T.K.: Green Revolution and Agrarian Conflicts, Economics and Political weekly, Vol.-6, Issue-26(1971)

Shah, A.M.: Changes in the Indian Family: An Examination of Some Assumptions', in The Family in India: Critical Essays, New Delhi: Orient Longman (1998)

Srinivas M.N.: India: Social Structure, Hindustan Publishing Corporation, Delhi (1980)

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जयपूर(२००९).

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E195 SOCIOLOGY – XVI

URBAN SOCIOLOGY

(June,2020 onwards)

A)Course Objectives:

1. Urbanization is an important aspect of modern society. This course is will provide an Exposure to key theoretical perspectives for understanding urban phenomena in historical and contemporary contexts.
2. It also reflects on vital concerns of urban living while narrating the subjective experiences of urban communities. With case studies from India and other parts of the world this course will help students understand and relate to the complexities of urban living.
3. The course seeks to evolve critical thinking and develop a policy perspective on the urban.

B)Course Learning Outcomes:

1. To appreciate the significance of the city and the process of urbanization and its Consequences across the globe, through cross disciplinary texts and ethnographic studies.
2. To understand the urban in the historical as well as modern contexts - the idea of Urbanism and urban space and the intersections in these of institutions, processes and Identities. This is to be achieved by exposing students to critical theoretical debates which help them to gain a deeper understanding of city life and urban environment which can Also help them understand their own social environment better.
3. To learn about key urban processes such as migration, displacement and urban slums, as

Well as critical contemporary issues such as resettlement and rehabilitation and also engage in issues of public policy, urban transformation and change. Knowledge of such Themes will help students pursue further studies in academic areas such as development and also engage in research on public policy, urban transformation and change.

4. To develop critical thinking and a reflective perspective through exposure to multicultural Thought; to enhance disciplinary knowledge, research-related skills and develop a problem-solving competence.

C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module I	Introduction to Urban Sociology A) Definition, Meaning & Nature of Urban Sociology. B) Subject Matter of Urban Sociology. C) Importance of the Study of Urban Sociology	15	01
Module II	Major Concepts in Urban Sociology. A)Urban Community. B)Urbanism. C)Rural- Urban differences- continuum	15	01
Module III	Process of Urbanization A) Meaning and Nature of Urbanization	15	01

	<p>B) Causes of Urbanization.</p> <p>C) Consequences of Urbanization</p>		
Module IV	<p>Urban Social Structure.</p> <p>A) Urban Family : Characteristics and Change</p> <p>B) Urban Social stratification: Caste & Class.</p> <p>C) Urban Occupations: Characteristics and Change</p>	15	01

D) Teaching Learning Process:

The sociology of the urban is simultaneously theoretical and yet deeply experiential. The teaching learning for this course necessarily has to be deliberative, drawing from the multicultural exposure to city living. There will be an emphasis on blended learning supported by debates and discussions. Classroom lectures shall be supplemented by power point presentations and film screenings on various contemporary urban issues. Invited lectures by policy makers, activists, practitioners and other stake holders would be integral to the curriculum. Students would be encouraged to set out into the field to grasp issues with greater clarity. City walks will be encouraged to enrich the experiential understanding of the urban. Learning would also involve a multi-disciplinary perspective, collaborating with other social sciences that engage with the urban as well as the disciplines of urban planning and architecture, in order to enhance problem solving and critical thinking ability.

E) Assessment Methods:

Assessment for this paper would be in the form of tests, written assignments, projects' reports and presentations.

F) Key Words:

Urban, Urbanism, Urbanisation, City, Migration, Settlement, Space, Ecology.

NOTE: 1) Visit to any Slum Area in City and Understand their Problems

2) Visit to any City and Observe its Ecosystem

G) References:-

1. Wilson R.A & Schlutz David : Urban Sociology, Prentice Hall, England, 1978
2. Rao M.S.A. : Urban Sociology in India, Orient Longman
New Delhi, 1974.
3. D Souza Alfred : The Indian city: Poverty Ecology and Urban
Development, Manohar, New Delhi,1978.
4. Dube K.K. and Singh A.K. : Urban Environment in India, Inter India, New Delhi
1980.
5. Mitra, Ashok et.al. : Indian cities, abhinav, New Delhi,1980.
6. Berge E.E. : Urban Sociology, Free Press, New York,1962
7. Bose, Ashish : Studies in India's Urbanisation, Tata McGraw Hill,
New Delhi,1973
8. Singh Pramod : Ecology and Urban India, Vol.II Ashish, New
Delhi, 1987.
9. Urban Sociology : Rajendra K. Sharma Atlantic Publishers &
Distributers, New Delhi,1997
10. Urbanization : Concept & Growth: A.K. Shrivastava,
H.K.Publishers and Distribtors, New Delhi,1989

B.A. Sociology Outcome

Sociology is the most contemporary and versatile of the Social Sciences. It trains students to grasp social structures, understand social processes map the dynamics of social change, decipher social interactions and make sense of individual and collective experiences in their social, historical and cultural context. Sociology is at once critical and constructive; conceptual and applied; theoretical and empirical. It is a science that cohabits comfortably with literary flair, speculative sensibility, historical imagination and statistical rigour. It is incessantly reflexive about its methods, demanding about its research techniques and standards of evidence. Sociology is ever so subtle about the conceptual distinctions it draws and zealous about its disciplinary boundaries and identity. At the same time, sociology is the most open and interdisciplinary of social sciences. The Pursuit of sociology is a systematic effort at recovering, mapping and making sense of our kaleidoscopic collective self under the sign of modernity. It is both historical and comparative. Sociology as an academic discipline is committed to the ideal of generating public knowledge and fostering public reason. It embodies best of enlightenment virtues: scientific reason, tolerance of diversity, humanistic empathy and celebration of democratic ideals. It is the science of our times.

Teaching Learning Process

Multiple pedagogic techniques are used in imparting the knowledge both within and outside the classrooms. Listed below are some such techniques:

- Lectures
- Tutorials
- Power-point presentations
- Project work
- Documentary Films on relevant topics
- Debates, Discussions, Quiz
- Talks /workshops

- Interaction with experts
- Academic festivals
- Classics and other sociologically meaningful films
- Excursions and walks within the city
- Visit to the museums
- Outstation study tours Survey designs
- Internships

A note on Assessment Methods

Besides the formal system of University exams held at the end of each semester as well as mid-semester and class tests that are held regularly, the students are also assessed on the basis of the following:

- Written assignments
- Projects Reports
- Presentations
- Participation in class discussions
- Ability to think critically and creatively to solve the problems
- Application of classroom concepts during fieldwork
- Reflexive Thinking
- Engagement with peers
- Participation in extra and co-curricular activities
- Critical assessment of Films /Books etc.

**A note on career trajectories for Sociology Graduates and (for)
Prospective employers:**

Students with a grounding in Sociology have contributed immensely to the following fields :

- Academics
- Bureaucracy
- Social Work
- Law
- Journalism both print and visual
- Management
- Policy Making
- Developmental Issues
- Designing and Conducting surveys
- Human Resource Development
- Competitive Examinations
- Advocacy
- Performing Arts
- Research in contemporary issues of Gender, Development, Health, Urban Studies, Criminology etc.

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade
CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

Political Science

(Syllabus to be implemented from June, 2018 onwards.)

CHOICE BASED CREDIT SYSTEM
SYLLABUS
B.A.I Political Science
Discipline Specific Course (B4)
DSC (B4) Paper-I --Introduction to Political Science
Sem-I

Sr. No.	Topic No. and Title of the Topic	Teaching Hours	Credits
1.	Topic I- Introduction to Political Science a) Meaning, Definition, Nature, and Scope b) Difference Between Political Science and Politics c) Importance of Political Science	15	01
2.	Topic II- Introduction to Sub-disciplines of Political Science a) Political Theory: Meaning, Nature and Scope b) Political Process: Meaning, Nature and Scope c) Public Administration: Meaning, Nature and Scope d) International Politics: Meaning, Nature and Scope	15	01
3.	Topic III-State and Democracy a) State : Meaning, Definition, Organs of State b) Democracy: Meaning, Types(Direct and Indirect or Representative Democracy), Features of Democracy c) Democracy: Importance and Challenges before Democracy	15	01
4.	Topic IV- Key Concepts of Political Science a) Rights: Meaning, and Types b) Liberty: Meaning, and Types c) Equality: Meaning, and Types d) Justice: Meaning, and Types	15	01

Reading Book List

Sr. No	Name of Book	Author	Publications
1	What is Political Theory Political Theory – an Introduction	Bhargav .R. 2008	Pearson Longman New Delhi
2	'Liberty'	Sriranjani .V. 2008	Pearson Longman New Delhi
3	राजकीय सिद्धांताची मुलतत्त्वे	प्रा.बी.बी.पाटील प्रा.सौ.उर्मिला चव्हाण	फडके प्रकाशन, जुलै 2003
4	राज्यशास्त्रातील मुलभूत संकल्पना	प्रा.बी.बी.पाटील प्रा.सौ.उर्मिला चव्हाण	फडके प्रकाशन, जून2014
5	राजकीय सिद्धांत	प्रा.ज.रा.शिंदे प्रा.ए.डी.शेळके	कैलास प्रकाशन, जून 1991
6	आधुनिक राजकीय विश्लेषण	दि.का.गर्दे वि.मा.बाचळ	कॉन्टिनेंटल प्रकाशन 1979
7	आधुनिक राजकीय विश्लेषण	प्रा.चि.ग.घांगरेकर	विद्या प्रकाशन, रुईकर रोड, नागपूर, 1991
8	Political Science	B.K. Gokhale	A.R.Sheth & Co.,Mumbai
9	Principles of Political Science	A.C. Kapoor	Premier Publication
10	A Theory of Justice	Rawls John	Oxford, New Delhi

B.A.I Political Science
Discipline Specific Course (B18)
DSC (B18) Paper-II --Indian Constitution
Sem-II

Sr. No.	Topic No. and Title of the Topic	Teaching Hours	Credits
1.	Topic I- Introduction to Indian Constitution a) Historical Background of Indian Constitution (Acts of 1909,1919,1935) b) Making of Indian Constitution :Constituent Assembly c) Basic Features of Indian Constitution	15	01
2.	Topic II- Philosophy of Indian Constitution a) Preamble b) Fundamental Rights c) Directive Principles of State Policy and Fundamental Duties	15	01
3.	Topic III- Legislature and Executive in Indian Constitution a) Parliament b) Prime Minister and his Cabinet c) President	15	01
4.	Topic IV- Judiciary a) Supreme Court: Composition, Powers and Functions b) Judicial Review	15	01

Reading Book List

Sr.No.	Name of Book	Author	Publication
1	Introduction to Indian Constitution	D.D.Basu	Lexis Nexis
2	Indian Polity	M.Laxmikanth	McGraw Hill Education, New Delhi
3	Governments & Politics	Dwllon Micheal	Routledge New York
4	Indian Government & Politics	Abbas H. Kumar	Pearson New Delhi 2011
5	Contemporary India	Chandhoke N. Priyadarshi	Pearson New Delhi 2011
6	India after Independence	Chandra D. Mukharji	Penguin New Delhi
7	Indian Politics- Contemporary issue and Concerns	Sing m.p & Saxena R	PHI-New Delhi
8	भारताचे शासन व राजकारण	भोळे देशपांडे	पायल प्रकाशन नागपूर 1974
9	भारतीय शासन व राजकारण	एस.एन. नवलगुंदकर	नरेंद्र प्रकाशन पुणे जुलै 1977
10	भारतीय शासन	प्रा.बी.बी. पाटील, प्रा.उर्मिला चव्हाण	फडके प्रकाशन जुलै 2013
11	भारतीय प्रशासन	डॉ.पा.श्री. घारे	महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ गो.य. राने 1973
12	भारतीय शासन व प्रशासन	डॉ.प.ल.जोशी, डॉ.दवे	विद्या प्रकाशन नागपूर 1991
13	भारतीय प्रशासनाची रूपरेषा	प्रा. रमेश चौधरी	राधेय प्रकाशन नागपूर 1977

SHIVAJI UNIVERSITY, KOLHAPUR



Revised Syllabus For

Bachelor of Arts (B. A. POLITICAL SCIENCE)

Faculty of Humanities B. A. Part - II (Sem. III and IV)

CBCS based Syllabus to be implemented from June 2019 onwards.

Equivalence Table

Paper	Old Syllabus		New Syllabus
B.A. Part- II Semester III			
Paper-III	Basic Concepts in Political Science	DSC D7 Paper-III	Political Process in India
Paper-IV	Ancient Indian Political Thought	DSC D8 Paper-IV	Indian Political Thought Part -I
IDS Paper-I	Public Administration	CGE Paper I	Public Administration
B.A. Part- II Semester IV			
Paper	Old Syllabus		New Syllabus
Paper-V	Local Self Government and Movements in Maharashtra	DSC D35 Paper-V	Local Self Government in Maharashtra
Paper-VI	Modern Indian Political Thought	DSC D36 Paper-VI	Indian Political Thought Part -II
IDS Paper-II	Public Administration	CGE Paper II	Public Administration

Course Structure for B.A.II Political Science
B.A.II

Sr. No.	Semester	Name of the Course	Discipline Specific Elective
1.	III	Political Process in India - III	Political Science Course - III
		Indian Political Thought Part I - IV	Political Science Course - IV
		Public Administration - I	Compulsory Generic Elective - I
2.	IV	Local Self Government in Maharashtra - V	Political Science Course - V
		Indian Political Thought Part II - VI	Political Science Course - VI
		Public Administration - II	Compulsory Generic Elective - II

CHOICE BASED CREDIT SYSTEM
SYLLABI AND READING LIST
B.A.II Political Science
Semester III
Discipline Specific Course (D7)
DSC (D7) Paper-III Political Process in India

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Indian Federalism a) Nature & Characteristics of Indian Federalism b) Centre-State Relations : Legislative, Administrative, Financial c) Changing nature of federal System	15	01
2.	Unit 2: Electoral Process in India a) Election Commission : Composition and Functions b) Review of Selected General Election 1952, 1977, 1989, 2014 c) Electoral Reforms - Corruption and Criminalization of Electoral Politics	15	01
3.	Unit 3: Party System of India a) Nature and Changing Pattern of Party System b) Selected National Political Parties: Indian National Congress, Bhartiya Janata Party, Communist Parties (CPM, CPI), Bahujan Samajwadi Party (BSP) c) Rise and Role of Regional Parties	15	01
4.	Unit 4: Issues in Indian Politics a) Caste and Politics of Identity b) Religion and Politics of Communalism c) Regionalism & Challenges before Development	15	01

References

- 1) Basu D. D., Introduction to Indian Constitution, Lexis Nexis (Pub.)
- 2) Laxmikanth M., Indian Polity, Mc Graw Hill Education, New Delhi.
- 3) Dasarathy Bhuyan, 2016, Political Process in India, Cattack Kitab Mandal
- 4) Appadorai, A. (2005). *The Substance of Politics*. N. Delhi: 2005.
- 5) Austin, Granville (1966). *Indian Constitution: A Cornerstone of a Nation*. N. Delhi: OUP.
- 6) Bandyopadhyay, Sekhar (2004). *From Plassey to Partition and After: A History of Modern India*. N. Delhi: Orient BlackSwan.
- 7) Badrinarayan (2011). *The Making of The Dalit Public in North India: Uttar Pradesh 1950- Present*. N. Delhi: OUP.
- 8) Chatterjee, Parth (2010). *Empire and Nation. Essential Writings (1985-2005)*. N. Delhi: Permanent Black.
- 9) Constituent Assembly Debates, Volumes I, II, and III. (Available in ILU Library).
- 10) Dhavan, Rajeev (2008). *Reserved! How Parliament Debated Reservations 1995-2007*. N. Delhi: Rupa & Company.
- 11) Ganguly, Sumit, Larry Diamond & Marc F. Plattner (eds.). (2007). *The State of India's Democracy*. Baltimore: The John Hopkins University Press.
- 12) Guaba, O.P. (2008). *An Introduction to Political Theory*. N. Delhi: Macmillan India Limited. Fourth Edition.
- 13) Gudavathy, Ajay. (2013). *Politics of Post-Civil Society: Contemporary History of Political Movements in India*. N. Delhi: Sage.
- 14) Guru, Gopal & Sundar Surakkai. (2006). *The Cracked Mirror*. N. Delhi: OUP.
- 15) Hasan, Zoya, E. Shridharan & R. Sudarshan (eds.) (2002). *India's Living Constitution: Ideas*,
- 16) भोले भा. ल., भारताचे गणराज्याचे शासन,
- 17) जोशी प. ल. भारतीय संविधान शासन आणि राजकारण, विद्या प्रकाशन नागपुर
- 18) बी. बी. पाटील & उर्मिला चव्हाण, भारतातील राजकीय प्रक्रिया , फडके प्रकाशन, कोल्हापूर.

CHOICE BASED CREDIT SYSTEM
B.A.II Political Science
Semester III

Discipline Specific Course (D8)
DSC (D8) Paper-IV Indian Political Thought Part -I

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Kautilya a) Nature of State - Saptang Theory b) King and His Administration, Council of Ministers c) Mandal Theory & Shadgunya Theory	15	01
2.	Unit 2: Mahatma Phule a) Theory of State – Concept of Balirajya b) Religion – Critique on Brahmanism c) Satyashodhak Samaj & it's Revolutionary Thought	15	01
3.	Unit 3: Justice M. G. Ranade a) Political Liberalism b) Thoughts on Social Reforms c) Economic Ideas	15	01
4.	Unit 4: B. G. Tilak a) Cultural Nationalism b) Concept on Swarajya (Four Fold Program) c) Right to Resist (Pratiryogita Sahakarita)	15	01

Reference Books:

- Altekar A.S., State and Government in India, Motilal Banarasidas , Delhi,1958
- Chakrabarty Bidyut & Pandey R.K., Modern Indian Thought, Sage, 2009
- Deshpande G.P. (ed.), 'Introduction', *Selected Writings of Jotirao Phule* , Leftword: New Delhi,2002
- Jayswal K.P. Hindu Polity: A Constitutional History of India in Hindu Times, Butterwort, Calcutta, 1924
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- डोळे ना. य., भारतीय राजकीय विचारवंत , विद्या पब्लिशर्स , औरंगाबाद, १९९९
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CHOICE BASED CREDIT SYSTEM
B.A.II Political Science
Semester III
Compulsory Generic Elective - I
CGE Paper-I Public Administration

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Public Administration a) Meaning, Definition and Nature b) Scope and Importance c) Public Administration and Private Administration	15	01
2.	Unit 2: Organization a) Meaning, Definition and Bases b) Principles : Hierarchy, Coordination, Span of Control, Centralization and Decentralization c) Units: Line and Staff.	15	01
3.	Unit 3: Public Corporations a) Meaning and Characteristics b) Control over Public Corporations c) Challenges of Privatization	15	01
4.	Unit 4: Changing Perspectives in Public Administration a) Development Administration b) Public Choice Approach c) New Public Management	15	01

Recommended Books

1. Dr.Sharma M. P. : Public Administration in theory and practice, Kitab Mahal, Allahabad.
2. Dr.Avasthi A.; Dr.Maheshwari S., Public Administration, Lakshmi Narain Agrawal,Agra.6
3. Basu R.,Public Administration - Concept and Theories, Sterling Publisher Pvt.Ltd.,New Delhi.

4. White L. D. : Introduction to the study of public administration
5. Bhattacharya M., Restructuring of Public Administration,
Jawahar Publishers, New Delhi.
6. इनामदार ना. र., लोकप्रशासन
7. गर्दे दि. का., लोकप्रशासन तत्त्व व तंत्र
8. प्रा. बी. बी. पाटील लोकरशासन, फडके प्रकाशन, कोल्हापूर.
9. व्हा. भा. पाटील, लोकप्रशासन,
10. डॉ. पारस बोरा, प्रा. शाम शिरसाट, लोकप्रशासनशास्त्र, ज्ञानसमिधा पब्लिशिंग
वर्ल्ड, औरंगाबाद.

CHOICE BASED CREDIT SYSTEM
B.A.II Political Science
Semester IV
Discipline Specific Course (D35)
DSC (D35) Paper-V Local Self Government in Maharashtra

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Historical Background of Local Self Government a) Community Development Program b) Balawantrao Mehta Committee c) Vasantao Naik, L. N. Bongirwar, P. B. Patil Committee	15	01
2.	Unit 2: Rural Local Self Government a) Gram Panchayat b) Panchayat Samiti c) Zilla Parishad	15	01
3.	Unit 3: Urban Local Self Government a) Municipal Council b) Municipal Corporation	15	01
4.	Unit 4: Constitutional Amendments & Challenges a) 73 rd Constitutional Amendment Importance & Features b) 74 th Constitutional Amendment Importance & Features c) Challenges before local self Government	15	01

Reference Books:

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- Gadkari S.S. - Organization of the State Government in Maharashtra, 1965
- Bhat K.S. - Panchayat Raj Administration in Maharashtra, 1974
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- Government of Maharashtra – Municipal Act,1965
- पाटील पी. बी., पंचायत राज्याकडून ग्राम स्वराज्याकडे, समाजवादी प्रबोधिनी, इचलकरंजी
- शिरसाठ शाम, भारतीय स्थानिक स्वशासन, विद्या बुक्स, औरंगाबाद, २०१०

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CHOICE BASED CREDIT SYSTEM
B.A.II Political Science
Semester IV
Discipline Specific Course (D36)
DSC (D36) Paper-VI Indian Political Thought Part -II

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: M. K. Gandhi a) Satya, Ahimsa, Satyagraha b) Concept of Swaraj – Ramrajya & Trusteeship c) Theory of Gandhi's concept of Religion	15	01
2.	Unit 2: Jawaharlal Nehru a) Democratic Socialism b) Composite Nationalism & Secularism c) Panchsheel & Non-Alignment	15	01
3.	Unit 3: Dr. B. R. Ambedkar a) Critique of Caste System b) Social and Parliamentary Democracy c) State Socialism	15	01
4.	Unit 4: M. N. Roy a) Views on Marxism b) Radical Democracy c) New Humanism	15	01

Reference Books:

- Singh, M.P., Indian Political Thought- Themes and Thinkers, Pearson, New Delhi, 2011
- Chakrabarty Bidyut & Pandey R.K., Modern Indian Political Thought, Sage, 2009
- Pantham Thomas & Deutsch (ed.), Political Thought in Modern India, Sage, 1986
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- बाचल वि. मा. भारतीय राजकीय विचारवंत, के सागर पब्लिकेशन्स, 2006.
- काणे प. सी., राजकीय सिद्धांत आणि राजकीय विचार, पिंपळापुरे आणि कंपनी पब्लिशर्स, नागपूर, २०००.
- चव्हाण, रा. ना., डॉ. बाबासाहेब आंबेडकर यांचा शोध व बोध, चव्हाण प्रतिष्ठान पुणे.
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- बी. बी. पाटील & उर्मिला चव्हाण, आधुनिक भारतीय राजकीय विचार, फडके प्रकाशन, कोल्हापूर

CHOICE BASED CREDIT SYSTEM
B.A.II Political Science
Semester IV
Compulsory Generic Elective - II
CGE Paper-II Public Administration

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Personnel Administration a) Meaning, Definitions and Importance b) Recruitment, Training and Promotion c) Political Neutrality of Civil Servants	15	01
2.	Unit 2: Financial Administration in India a) Meaning, Definitions and Importance of Budget b) Preparation, Enactment and Execution of the Budget c) Financial committees – Public Accounts Committee, Estimates Committee, Public Undertakings Committee.	15	01
3.	Unit 3: Delegated Legislation a) Meaning, Definition and Causes of its growth b) Merits and Demerits d) Safeguards against Delegated Legislation	15	01
4.	Unit 4: New Trends in Public Administration a) E-Governance b) Right to Information c) Peoples participation	15	01

Recommended Books

1. Dr.Sharma M. P. : Public Administration in theory and practice, Kitab Mahal, Allahabad.
2. Dr.Avasthi A.; Dr.Maheshwari S., Public Administration, Lakshmi Narain Agrawal,Agra.6
3. Basu R.,Public Administration - Concept and Theories, Sterling Publisher Pvt.Ltd.,New Delhi.
4. White L. D. : Introduction to the study of public administration
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6. इनामदार ना. र., लोकप्रशासन
7. गर्दे दि. का. लोकप्रशासन तत्त्व व तंत्र
8. प्रा. बी. बी. पाटील लोकप्रशासन, फडके प्रकाशन, कोल्हापूर.
9. व्हा. भा. पाटील, लोकप्रशासन,
10. डॉ. पारस बोरा, प्रा. शाम शिरसाट, लोकप्रशासनशास्त्र, ज्ञानसमिधा पब्लिशिंग वर्ल्ड, औरंगाबाद.

SHIVAJI UNIVERSITY, KOLHAPUR.



' A' Reaccredited By NAAC

Revised Syllabus for Bachelor of Arts (CBCS)

B. A. in Political Science

Faculty of Humanities B.A. Part – III

(Sem. V and VI)

Syllabus to be implemented from June, 2020

Shivaji University, Kolhapur
Revised Syllabus from June, 2020
Bachelor of Arts Part III – Political Science - Sem – V and VI

- 1) **Title:** Subject: Political Science (Paper No. 7 to 11) Optional under the Faculty of Arts.
- 2) **Year of Implementation:** Revised Syllabus will be implemented from June 2020 onwards.
- 3) **Duration:** The course shall be a full time course. The duration of course shall be three years.
- 4) **Pattern:** Pattern of examination will be Semester.
- 5) **Eligibility For Admission:** As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.
- 6) **Medium of Instruction:** The medium of instruction shall be English or Marathi
- 7) **Equivalence In Accordance With Titles And Content Of Papers:** For Revised Syllabus As follows:

SEMESTER V

Sr No	Paper No	Title of Old Paper	Paper No	Title of New Paper
1	VII	Modern Government	VII	Political Theory
2	VIII	Public Administration	VIII	Public Administration
3	IX	International Politics	IX	International Politics
4	X	Constitution of United States of America	X	Comparative Politics
5	XI	Classical Western Political Thought	XI	Western Political Thought I

SEMESTER VI

Sr No	Paper No	Title of Old Paper	Paper No	Title of New Paper
1	XII	Modern Political Concepts	XII	Modern Political Concepts
2	XIII	Administrative Thinkers	XIII	Politics and Movements in Maharashtra
3	XIV	Foreign Policy of India	XIV	Foreign Policy of India
4	XV	Constitution of China and Sweden	XV	Comparative Government (With special reference to UK & USA)
5	XVI	Modern Western Political Thought	XVI	Western Political Thought II

Structure of Course

Revised syllabus of B.A. Part III (Political Science) From June, 2020

Semester	Paper No.	Title of the Paper	Theory Marks	Term work
Sem V	Paper VII	Political Theory	40	10
	Paper VIII	Public Administration	40	10
	Paper IX	International Politics	40	10
	Paper X	Comparative Politics	40	10
	Paper XI	Western Political Thought I	40	10
Sem-VI	Paper XII	Modern Political Concepts	40	10
	Paper XIII	Politics and Movements in Maharashtra	40	10
	Paper XIV	Foreign Policy of India	40	10
	Paper XV	Comparative Government (With special reference to UK & USA)	40	10
	Paper XVI	Western Political Thought II	40	10

Revised Syllabus B.A. III- Political Science (CBCS) From June 2020

Semester - V Paper No. VII DSE E-76

Title: Political Theory

Course Outcome:

- 1) Getting basic knowledge of Political Theory
- 2) Understanding of approaches to Political Theory
- 3) Knowing Behavioural movement in Political Science
- 4) Acquiring knowledge about concepts of Power, Authority and Legitimacy

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Political Theory. a. Nature and scope of Political Theory. b. Political Philosophy and Political Theory c. Decline, Resurgence and Importance of Political Theory.	15	01
2.	Unit 2: Approaches to Political Theory a) Normative Approach b) Empirical Approach	15	01
3.	Unit 3: Behaviouralism & Post Behaviouralism a) Behavioral Approach—Meaning, Characteristics & Evaluation b) Post Behavioral Approach –Meaning, Characteristics & Evaluation	15	01
4.	Unit 4: Concepts in Political Theory a) 1)Political Power—Meaning, &Types, 2)Theories of Political Power—Psycho-Analytical Theory, Sociological Theory, Liberal Democratic Theory, Marxian Theory b) Authority –Meaning & Types c)Legitimacy –Meaning , Basis of Legitimacy	15	01

References:

- 1) Freidrich C. H. An Introduction to Political Theory.
- 2) Ernest Barkar, Principles of Social & Political Theory, Oxford, 1976
- 3) Ashirvadam & Misra, Political Theory, S Chand, Delhi 2004.
- 4) Dr. A.H. Doctor, Issues in Political Theory
- 5) Lass let Peter & Runciman W.C.(ed) Philosophy, Politics & Society, (3rd Series) Oxford, Blackwell, 1976
- 6) Mac Iver, Modern State, OUP, 1926
- 7) Verma S.P. Modern Political Theory, Vikas, Delhi, 1913
- 8) Carnoy, State and Political Theory, Princeton, 1984
- 9) Strauss L. What is political Philosophy & other essays, Glencoe, Free Press, 1959.
- 10) A Brecht, Political Theory-Foundations of 20th century Political Theory, Bombay, 1965.
- 11) David Held, Political Theory & Modern State, Polity, 1984.
- 12) Cresingay D. and Minogue (Ed) Contemporary Political Thinkers, Methuan, London, 1975.
- 13) Quinton A (Ed) Political Philosophy, Oxford, 1967.
- 14) Bena and Peters Social Principles & Democratic State, George Alien & Unwin, 1959
- 15) Einstein Mathew, Kenny Micheal,(ED) Political Ideologies: A Reader & Guide OUP; 2005

- 16) Bhargava Rajeev & Acharya Ashok, Political Theory, Pearson,2015
- 17) गर्दे दि.का.,राजकीय सिद्धांत ,महाराष्ट्र विद्यपीठ ग्रंथ निर्मिती मंडळ,नागपूर ,१९७८
- 18) भोळे भास्कर ,राजकीय सिद्धांत आणि विश्लेषण, श्रीविद्या, नागपूर,२००४
- 19) देव विजय आणि इतर , राजकीय संकल्पना आणि सिद्धांत, डायमंड ,पुणे, २०१५

Semester - 5 Paper No. VIII DSE E-77
Title: Public Administration

Course Outcome:

- 1) Acquiring information about various concepts in Public Administration.
- 2) Getting knowledge about Organization, its Bases, Principles and Units.
- 3) Getting acquainted with the budgetary process in India.
- 4) Understanding the interface between citizens and Public Administration; and other agencies in society and Public Administration.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Introduction to Public Administration a) Meaning, Nature and Scope b) Politics and Administration Dichotomy c) Evolution of the Discipline and its Present Status	15	01
2.	Unit 2: Organization a) Meaning and Bases of Organization b) Principles of Organization c) Units of Organization	15	01
3.	Unit 3: Financial Administration: a) Meaning and definition of Budget b) Budgetary Process in India c) Parliamentary Control of the Budget in India.	15	01
4.	Unit 4: Accountability and Control a) Concepts of Accountability and Control b) Legislative, Executive and Judicial Control over Public Administration c) Citizen and Administration d) Citizen's Charter, Role of: Media, Interests Groups, Voluntary Organizations, and Civil Society.	15	01

Recommended Books

1. Dr.Sharma M. P. : Public Administration in theory and practice, Kitab Mahal, Allahabad.
2. Dr.Avasthi A.; Dr.Maheshwari S., Public Administration, Lakshmi Narain Agrawal,Agra.6
3. Basu R.,Public Administration - Concept and Theories, Sterling Publisher Pvt.Ltd.,New Delhi.
4. White L. D. : Introduction to the study of public administration
5. Bhattacharya M., Restructuring of Public Administration, Jawahar Publishers, New Delhi.
6. Laxmikanth M, Public Administration, McGraw Hill Education (India) Private Limited, Chennai.
7. Prof. Fadia B. L. and Fadia K, Public Administration in India, Sahitya Bhawan, Agra.
- 8 बोरा पारस, शिरसाट शाम, लोकप्रशासनशास्त्र,ज्ञानसमिधा,औरंगाबाद
- 9 गर्दे दि.का. लोकप्रशासन तत्व व तंत्र, नागपूर ,1980
- 10 इनामदार एन.आर.लोकप्रशासन, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ ,नागपूर,1975
- 11 माहेश्वरी श्रीराम, भारतीय प्रशासन ,(अनुवाद : साधना कुलकर्णी), ओरिएण्ट लॉगमन,हैद्राबाद,2002

- 12 काणे प.सि.,लोकप्रशासनाचे सिद्धांत ,विद्या प्रकाशन,नागपूर
- 13 भोगले शांताराम ,लोकप्रशासन सिद्धांत व कार्यपद्धती ,कैलाश ,औरंगाबाद
- 14 दर्शनकार अर्जुन, लोकप्रशासन, कैलाश ,औरंगाबाद

Semester – V - Paper No. IX DSE E-78
Title: International Politics

Course Outcome :

- 1) Getting acquainted with the concepts and dimension of International Politics.
- 2) To understand main theories of International Politics.
- 3) To know the working of international and regional organizations and the new world order that emerged after the end of cold war.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit – 1. Nature of International Politics a) Meaning, Nature and Scope of International Politics b) Theories of International Politics: Idealist and Realist.	15	01
2.	Unit – 2. National Power : a) Meaning of National Power b) Elements of National Power.	15	01
3.	Unit – 3. Diplomacy : a) Meaning of Diplomacy, b) Kinds and Functions of Diplomacy.	15	01
4.	Unit – 4. New World Order : a) Post Cold-War International Order b) Regional Organizations: European Union, ASIAN c) Economic Organizations: WTO and BRICS	15	01

Recommended Books:

1. Vinoy Kumar Malhotra - International Relation (New Delhi: Anmol Publication 1999)
2. Joshna Goldstein - International Relation (New York: Longman, 2003)
3. Hans Morgenthau - Politics Among Nation (New York: Alfred Knopf, 1985)
4. देवळाणकर शैलेंद्र, आंतरराष्ट्रीय संबंध, विद्या, औरंगाबाद, 2005
5. रायपूरकर वसंत, आंतरराष्ट्रीय संबंध, मंगेश, नागपूर, 2006
6. फादिया बी.एल. आंतरराष्ट्रीय राजनीती, साहित्यभवन, आग्रा, 2004
7. लोटे रा.ज., आंतरराष्ट्रीय संबंध, पिंपळापुरे, नागपूर, 2018
8. पाटील वा.भा., आंतरराष्ट्रीय संबंध, प्रशांत, जळगाव,
9. तोडकर बी.डी., आंतरराष्ट्रीय संबंध—महत्वाच्या संकल्पना, डायमंड, पुणे, 2012
10. वराडकर र.घ., आंतरराष्ट्रीय संबंध आणि राजकारण, विद्या, नागपूर

Semester – V Paper No. X DSE E-79
Title : Comparative Politics

Course Outcome:

- 1) Students will be familiar with basic theory of comparative politics
- 2) Students be able to understand constitutionalism, federalism.
- 3) Students shall understand party system and pressure groups and its functioning.
- 4) Students shall understand classification of political parties and pressure groups.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit – 1. Comparative Politics a) Meaning, Nature and Scope of Comparative Politics b) Structural Functional Approach to the study of Comparative Politics c) System Approach to the study of Comparative Politics d) Marxian Approach to the study of Comparative Politics	15	01
2.	Unit – 2. Constitutionalism a) Meaning and Definition Constitutionalism b) Constitutionalism in United Kingdom c) Constitutionalism in United States of America	15	01
3.	Unit – 3. Federalism a) Meaning and Nature federalism b) Essential Conditions of Federation c) Challenges before Federation	15	01
4.	Unit – 4. Political Party and Pressure Groups a) Meaning and types of Political Party b) Meaning and Classification of Pressure Groups c) Role of Political Parties and Pressure Groups	15	01

Recommended Books:

1. Harry Eckstein & David E. Apter- Comparative Politics, A Reader (New York, The Free Press, 1969.
2. J Blondel- An Introduction to comparative Government, London, 1969.
3. Herman Finer- The theory and Practice of Modern Government, Mathuen and Company, London 1969
4. S. R Maheshwari – Comparative Government and Politics ,Laxmi Narayan Agrwal, Agra, 1983
5. V.N Khanna– Major Political Systems, Chand and Chand company , Delhi
6. J.C Johari – Comparative Politics, sterling Delhi.
7. VidyaBhushan – Comparative Politics , Atlantic Publication and Distributers.
8. H,Denis Derbyshire, Ian Derbyshire – Political system of the world, Alied Publishers.Ltd.
9. D. Deol – Comparative Government and Poltics, sterling Publisher Pvt. Ltd
10. V.D. Mahajan- Select Modern Government, S Chand &Co.Ltd, New Delhi

- 11 लोटे रा.ज, तुलनात्मक शासन आणि राजकारण ,पिंपळापुरे ,नागपूर, 2015
- 12 गांधीजी राय ,तुलनात्मक शासन एवं राजनीती,भारती भवन पब्लिशर, 2017
- 13 जोहरी जे.सी.. तुलनात्मक राजनीती,स्टर्लिंग ,2008
- 14 गाबा ओमप्रकाश, तुलनात्मक राजनीती कि रूपरेखा, मयूर बुक्स, 2018
- 15 बिस्वाल तपन, तुलनात्मक राजनीती-संस्थाए और प्रक्रियाए,द ओरिएन्ट ब्लॉकस्वान, 2016
- 16 गर्ग सुषमा,तुलनात्मक शासन एवं राजनीती,अग्रवाल प्रकाशन ,2012
- 17 देशपांडे म.द., शासन राज्यपद्धती तौलनिक विचार,महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती
- 18 घांगरेकर चि.ग.तुलनात्मक शासन आणि राजकारण

- 19 शास्त्री चंद्रशेखर ,प्रमुख देशांची शासन प्रणाली ,पायल,नागपूर
- 20 देशमुख अलका ,तौलनिक शासन आणि राजनीती,नाथ,नागपूर
- 21 देवगावकर रा.गो.आधुनिक राजकीय व्यवस्था, साईनाथ नागपूर

Semester – V, Paper No. XI DSE E-80
Title of the Paper: Western Political Thought – I

Course Outcome :

- 1) Students will get acquainted with the western tradition from Plato to Rousseau.
- 2) Students will understand the evolution of western Political idea.
- 3) Students will be able to study historical aspects of western state and society.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit – 1. Plato	15	01
2.	Unit – 2. Aristotle	15	01
3.	Unit – 3. Machiavelli	15	01
4.	Unit – 4. Rousseau	15	01

Recommended Books:

- 1) Francis W. Coker - Recent Political Thought, The world Press Pvt. Ltd.
- 2) George H. Sabine - A History of Political theory, George G. Harrap&comoany Ltd. London.
- 3) C.L. Wayper - Political thought, S.T. Pauls, Honce Warwick lane London, Ec. 4
- 4) V.D. Mahajan & R.R. Seth, Recent Political Thought, Premier Publishing Co, Delhi.
- 5) William Ebenstein, Great Political Thinkers – Plato To the present Modern Political thought, The great Issues, IInd Edition, Oxford & IBH Publishing company.
- 6) Radhey Sham Chourasia, History of western Political thought – Volume I & II
- 7) Suda J.P., History of Political Thought, K.Nath, Meerut, Vol. 1 to 3, Reprint, 2017

- 8 शृंगारपुरे अरविंद, भारतीय तथा पाश्चिमात्य राजकीय विचार, मंगेश, नागपूर
- 9 भोळे भा.ल., भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापुरे, नागपूर
- 10 गर्दे दि.का., पाश्चिमात्य राजकीय विचार प्रवाह, महाराष्ट्र राज्य ग्रंथ निर्मिती, पुणे
- 11 डोळे ना.य., राजकीय विचारांचा इतिहास, कॉन्टीनेटल, पुणे
- 12 कुलकर्णी सुधाकर, निवडक राजकीय विचारवंत, विद्याभारती, लातूर

B. A. Part III – Political Science - Semester – VI
Semester VI, Paper No. XII DSE E- 201

Title of the Paper: Modern Political Concepts

Course Outcome

1. Student will know modern concepts such as Feminism, Multiculturalism, Environmentalism and Civil Society etc.
2. This will enable students to have comprehensive idea of contemporary scenario in political science.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit – 1. : Feminism I. Meaning, Origin and Development of Feminism. II. Characteristic of Feminism III. Theories of Feminism	15	01
2.	Unit – 2. Multiculturalism I. Meaning and Development of Multiculturalism II. Will Kymlicka's theory of Multiculturalism III. Nationalism and Multiculturalism	15	01
3.	Unit – 3. Environmentalism I. Origin and Causes of Environmentalism II. Characteristics of Environmentalism III. International Efforts for protection of Environment IV. Global Warming	15	01
4.	Unit – 4. Civil Society I. Meaning and Development of Civil Society II. Civil Society—Liberalism and Political Economy III. Locke, Hegel, Marx and Antonio Gramsci on Civil Society IV. Post Colonialism and Civil Society	15	01

Recommended Books:

- 1 Kymlicka Will, Multicultural Citizenship :Liberal Theory of Minority Rights, Clarendon Press, 1995
- 2 Kymlicka Will, Contemporary Political Philosophy, Oxford, 2001
3. Bhargava Rajeev and Acharya Ashok, Political Theory : An Introduction, 1st. Edition, Pearson, New Delhi, 2008
- 4 राठी शुभांगी डी. आधुनिक राजकीय विचारप्रणाली, अथर्व, धुळे, 2014
- 5 भार्गव राजीव , आचार्य अशोक, (संपा.) राजकीय सिद्धांत परिचय (अनुवाद: हेमंत खानझोडे) पिअर्सन , नवी दिल्ली, 2011
- 6 खेडेकर दिगंबर , राजकीय सिद्धांतातील मुलभूत संकल्पना, चिन्मय , औरंगाबाद, 2009
- 7 भागवत वंदना , संदर्भासहित स्त्रीवाद
- 8 भागवत विद्युत , स्त्रीवादी सामाजिक विचार : सहा महत्वाच्या विचारवंत स्त्रियांचा परिचय, डायमंड, पुणे, 2008

Semester VI Paper N0. XIII DSE E- 202

Title of the Paper: Politics and Movements in Maharashtra

Course Outcome :

- 1) Student will know the Political System of Maharashtra.
- 2) They will understand the process of formation of Maharashtra State
- 3) Student will know the movements, pressure groups and political parties in Maharashtra.
- 4) This will provide comprehensive idea of contemporary politics of Maharashtra.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit -1 Samyukta Maharashtra a. Movement of Samyukta Maharashtra and formation of Maharashtra State b. Developments in Politics of Maharashtra after 1960 c. The Politics of Regional Imbalance – Cooperative Sector and Economy	15	01
2.	Unit – 2 Organization of State Government a. Executive: Governor, Chief Minister and Council of Ministers – Composition, Powers and Functions b. Legislature: Legislative Assembly and Legislative Council- Composition, Powers and Functions.	15	01
3.	Unit – 3. Politics of Maharashtra a. Major Political Parties in Maharashtra b. Regional Parties in Maharashtra c. Coalition Politics	15	01
4.	Unit – 4. Political and Social Movements in Maharashtra a. Peasant Movements b. Dalit Movements c. Superstition Eradication Movements d. Student Movements	15	01

References:

- 1- Usha Thakkar and Mangesh Kulkarni (Ed.) Politics in Maharashtra
- 2- M.S.A. Rao/Francis Frankel (Ed.) Politics in Maharashtra – Vol 2. Oxford Uni. Press, 1990.
- 3 Murugkar Lata, Dalit Panther Movement in Maharashtra :A Sociological Appraisal, South Asia Books, 1991
- 4 Shah Ghanshyam, Social Movements in India, sage, 1991
- 5 जैन अशोक ,महाराष्ट्राचे शासन आणि राजकारण, सेठ ,मुंबई ,1998
- 6 पळशीकर सुहास आणि बिरमल नितीन,महाराष्ट्राचे राजकारण,प्रतिमा,पुणे ,2005
- 7 पळशीकर सुहास आणि कुलकर्णी सुहास,महाराष्ट्रातील सत्तासंघर्ष,समकालीन प्रकाशन,पुणे ,2007
- 8 भोळे भा.ल., यशवंतराव चव्हाण विचार व राजकारण, साकेत,औरंगाबाद,2007

- 9 जाधव तुकाराम आणि इतर (संपादक), महाराष्ट्राचे राजकारण नव्या वळणावर? ,युनिक अकाडेमी, 2015
- 10 काळे भगवानराव, संयुक्त महाराष्ट्र:काल आणि आज ,1998
- 11 फडके य.दि.व्यक्ती आणि विचार, श्रीविद्या, पुणे
- 12 सुमंत यशवंत आन डी.डी.पुंडे (संपा.) महाराष्ट्रातील जातीव्यवस्थात्मक विचार,प्रतिमा ,पुणे
- 13 व्होरा राजेंद्र (संपा.) परंपरा आणि आधुनिकता, प्रतिमा ,पुणे
- 14 भोळे भा.ल., बेडकिहाळ किशोर (संपा.) बदलता महाराष्ट्र, आंबेडकर अकादमी,सातारा,2003
- 15 चौसाळकर अशोक , कॉ.श्रीपाद अमृत डांगे,कॉ.गोविंद पानसरे अमृत महोत्सव समिती,कोल्हापूर,2011

Semester VI Paper No. XIV DSE E- 203

Title: Foreign Policy of India

Course Outcome:

1. Student will understand, 'what is Foreign Policy and what are the objectives of Foreign Policy.
2. This will provide comprehensive idea of foundation of Indian Foreign Policy
3. Student will come to know India's relation with super powers and neighboring countries.
4. It will bring attention of the students towards the current national and international political situation and foreign policy.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Foreign Policy a) Meaning and Objectives of Foreign Policy. b) Determinants and Basic Principles of Indian Foreign Policy	15	01
2.	Unit – 2. India and Global Powers a) India – US Relations b) India – USSR and Russia Relations c) India – China Relations	15	01
3.	Unit – 3. India's Relations with her Neighbors a) India – Pakistan b) India – Bangladesh c) India – Shrilanka	15	01
4.	Unit – 4. Continuity and Change in India's Foreign Policy a) Foreign Policy of India in Cold War Era b) Foreign Policy of India in Post Cold War Era	15	01

Recommended Books :

1. Vinoy Kumar Malhotra - International Relation (New Delhi: Anmol Publication 1999)
2. Joshna Goldstein - International Relation (New York: Longman, 2003)
3. Hans Morgenthau - Politics Among Nation (New York: Alfred Knopf, 1985)
4. देवळाणकर शैलेंद्र, आंतरराष्ट्रीय संबंध, विद्या, औरंगाबाद, 2005
5. रायपूरकर वसंत, आंतरराष्ट्रीय संबंध, मंगेश, नागपूर, 2006
6. फादिया बी.एल. आंतरराष्ट्रीय राजनीती, साहित्यभवन, आग्रा, 2004
7. लोटे रा.ज, आंतरराष्ट्रीय संबंध, पिंपळपुरे, नागपूर, 2018
8. पाटील वा.भा., आंतरराष्ट्रीय संबंध, प्रशांत, जळगाव,
9. तोडकर बी.डी., आंतरराष्ट्रीय संबंध—महत्वाच्या संकल्पना, डायमंड, पुणे, 2012
10. वराडकर र.घ., आंतरराष्ट्रीय संबंध आणि राजकारण, विद्या, नागपूर
11. देवळाणकर शैलेंद्र, समकालीन जागतिक राजकारण व भारताचे परराष्ट्र धोरण, क्रोनिकॅल, 2012
12. देवळाणकर शैलेंद्र, भारत व जग, सकाळ, पुणे, 2014

13 देवळाणकर शैलेन्द्र, भारताचे परराष्ट्र धोरण : सातत्य व स्थित्यंतर , प्रतिमा पुणे, 2007

Title: Comparative Government (With special reference to UK & USA)

Course Outcome:

1. To familiarizes students with composition, functions, and law making process of legislative bodies in UK and USA.
2. To introduce the students with execution process of laws in UK and USA
3. To introduce the Judicial System in UK and USA and procedure of adjudication
4. Students will understand the role of Pressure Groups in the Politics of UK and USA.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: Legislature a) Parliament of UK- Composition, Powers and Functions b) Congress of USA- Composition, Powers and Functions	15	01
2.	Unit – 2 Executive a) King, Prime Minister and Council of Minister in UK b) The President, Vice President, and Secretaries in USA	15	01
3.	Unit – Judiciary a) House of Lords and Supreme Court of Judicature in UK b) Supreme Court of USA- Composition, Powers and Functions	15	01
4.	Unit – 4 Political Party and Pressure Group a) Political Party system in UK- Conservative Party and Labour Party b) Political Party System in USA- Democratic and Republican Party c) Pressure Groups in UK and USA	15	01

Recommended Books :

1. **Harry Eckstein & David E. Apter-** Comparative Politics, A Reader (New York, The Free Press, 1969.
2. **J Blondel-** An Introduction to comparative Government, London, 1969.
3. **V.D. Mahajan-** Select Modern Government, S Chand &Co.Ltd, New Delhi
4. **Herman Finer-** The theory and Practice of Modern Government, Mathuen and Company, London 1969
5. **S. R Maheshwari –** Comparative Government and Politics ,Laxmi Narayan Agrwal, Agra, 1983
6. **V.N Khanna –** Major Political Systems, Chand and Chand company , Delhi
7. **J.C Johari –** Comparative Politics, sterling Delhi.
8. **Vidya Bhushan –** Comparative Politics , Atlantic Publication and Distributers.
9. **H,Denis Derbyshire, Ian Derbyshire –** Political system of the world, Alied Publishers.Ltd.
10. **D. Deol –** Comparative Government and Poltics, sterling Publisher Pvt. Ltd
- 11 लोटे रा.ज, तुलनात्मक शासन आणि राजकारण ,पिंपळापुरे ,नागपूर, 2015
- 12 गांधीजी राय ,तुलनात्मक शासन एवं राजनीती,भारती भवन पब्लिशर, 2017
- 13 जोहरी जे.सी.. तुलनात्मक राजनीती,स्टर्लिंग ,2008
- 14 गाबा ओमप्रकाश, तुलनात्मक राजनीती कि रूपरेखा, मयूर बुक्स, 2018

- 15 बिस्वाल तपन, तुलनात्मक राजनीती-संस्थाए और प्रक्रियाए,द ओरिएन्ट ब्लॉकस्वान, 2016
- 16 गर्ग सुषमा,तुलनात्मक शासन एवं राजनीती,अग्रवाल प्रकाशन ,2012
- 17 देशपांडे म.द., शासन राज्यपद्धती तौलनिक विचार,महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती
- 18 घांगरेकर चि.ग.तुलनात्मक शासन आणि राजकारण
- 19 शास्त्री चंद्रशेखर ,प्रमुख देशांची शासन प्रणाली ,पायल,नागपूर
- 20 देशमुख अलका ,तौलनिक शासन आणि राजनीती,नाथ,नागपूर
- 21देवगावकर रा.गो.आधुनिक राजकीय व्यवस्था, साईनाथ नागपूर

Semester VI Paper No. XVI DSE E- 205

Title: Western Political Thought- II

Course Outcome:

1. The students will understand Political views of J. S. Mill, Karl Marx, Gramsci & Hannah Arendt
2. The students will get acquainted with various aspects of state and society with western perspective.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	Unit 1: J.S. Mill	15	01
2.	Unit – 2 Karl Marx	15	01
3.	Unit 3 – Antonio Gramsci	15	01
4.	Unit – 4 Hannah Arendt	15	01

Re commended Books :

- 1) Francis W. Coker - Recent Political Thought, The world Press Pvt. Ltd.
- 2) George H. Sabine - A History of Political theory, George G. Harrap & comoany Ltd. London.
- 3) C.L. Wayper - Political thought, S.T. Pauls, Honce Warwick lane London, Ec. 4
- 4) V.D. Mahajan & R.R. Seth, Recent Political Thought, Premier Publishing Co, Delhi.
- 5) William Ebenstein, Great Political Thinkers – Plato To the present Modern Political thought, The great Issues, IInd Edition, Oxford & IBH Publishing company.
- 6) Radhey Sham Chourasia, History of western Political thought – Volume I & II
- 7) Suda J.P., History of Political Thought, K.Nath, Meerut ,Vol. 1 to 3 ,Reprint,2017
- 8) Steve Buckler Hannah Arendt and Political Theory : Challenging the tradition, Edinburg University Press, 2011
- 9) Murray Forsyth and Muurice Keens- Soper The Political Classics : Green to Dworkin, OUP, 1996
- 10) Weisman Tama , Hannah Arendt and Karl Marx : On Totalitarianism and the Tradition of Western Political Thought
- 11) Buttigieg Joseph, (Ed.) Antonio Gramsci –Prision Notebooks, Columbia University Press,2011
- 12) Arendt Hannah, The Origins of Totalitarianism, Schocken Books,1951
- 13) शृंगारपुरे अरविंद, भारतीय तथा पाश्चिमात्य राजकीय विचार,मंगेश,नागपूर
- 14) भोळे भा.ल., भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापुरे, नागपूर
- 15) गर्दे दि.का., पाश्चिमात्य राजकीय विचार प्रवाह, महाराष्ट्र राज्य ग्रंथ निर्मिती , पुणे
- 16) डोळे ना.य.,राजकीय विचारांचा इतिहास,कॉनंटीनेटल,पुणे
- 17) कुलकर्णी सुधाकर ,निवडक राजकीय विचारवंत, विद्याभारती ,लातूर
- 18) देव विजय आणि इतर , पाश्च्यात्य राजकीय विचारवंत, डायमंड,पुणे,2012
- 19) चौसाळकर अशोक ,माक्सवाद –उत्तरमाक्सवाद,प्रतिमा,पुणे,2010

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - I

Economics

(Syllabus to be implemented from June, 2018 onwards.)

**Course Structure for B.A. Economics
Three Years (6 Semester) Programme**

B.A. I

Sr.No.	Semester	Name of the Course	Discipline Specific Elective
1	I	Indian Economy-I	Economics Course-1
2	II	Indian Economy-II	Economics Course-2

B.A. II

Sr.No.	Semester	Name of the Course	Discipline Specific Elective
1	III	Principles of Macro Economics-I	Economics Course-3
2	III	Money and Banking	Economics Course-4
3	IV	Principles of Macro Economics-II	Economics Course-5
4	IV	Banks and Financial Markets	Economics Course-6

B.A. III

Sr.No.	Semester	Name of the Course	Discipline Specific Elective
1	V	Principles of Micro Economics-I	Economics Course-7
2	V	Economics of Development	Economics Course-8
3	V	International Economics-I	Economics Course-9
4	V	Research Methodology in Economics-I	Economics Course-10
5	V	History of Economic Thoughts-I	Economics Course-11
6	VI	Principles of Micro Economics-II	Economics Course-12
7	VI	Economics of Planning	Economics Course-13
8	VI	International Economics-II	Economics Course-14
9	VI	Research Methodology in Economics-II	Economics Course-15
10	VI	History of Economic Thoughts-II	Economics Course-16

Choice Based Credit System
B.A. Part - I
Economics Course – 1

June 2018 onwards

Indian Economy - I

Preamble : This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the Indian economy. It endeavors to provide useful insights to the students about the present economic standing and composition of the Indian economy, the major sectors and their relative importance in the Indian economy and the major challenges faced by it.

Objectives : 1.To introduce the students to the Indian economy.
2.To develop an understanding of challenges facing the Indian economy.
3.To acquaint the students with Structure of the Indian economy and Changes Taking Place therein.

Semester - I

	Teaching Hours	Credits
Module – I Economic Development Since Independence	15	01
1.1 Major Features of the Indian Economy at Independence		
1.2 Structural Changes in Indian Economy		
1.3 Indian Economy and Inclusive growth		
1.4 Sustainable Development		
Module – II Challenges before Indian Economy - I	15	01
2.1 Poverty - Meaning and concept		
2.2 Poverty - Causes and measures		
2.3 Unemployment - Meaning and Types		
2.4 Unemployment - Causes and Measures		
Module – III Challenges before Indian Economy - II	15	01
3.1 Problem of rising economic and social inequality		
3.2 Measures to correct economic and social inequality		
3.3 Problems and Remedies of regional imbalances in India.		
3.4 International Comparison : National Income, Per Capita Income, Human Development Index.		
Module – IV Population in India	15	01
4.1 Size and Causes of growth of population India		
4.2 Broad features of Indian Population		
4.3 Impact of population growth on Economic development		
4.4 Population Policy 2000		

REFERENCE BOOKS

1. Puri V.K., Misra S.K.(Latest Edition) Indian Economy, Himalaya Publishing House, Mumbai.
 2. Agrawal A.N. (Latest Edition) Indian Economy, New Age International Publishers, New Delhi.
 3. Datt and K.P.M.Sundharam, (Latest Edition) Indian Economy, S.Chand and Company Ltd., New Delhi.
 4. Chatterjee and Mani N. (2012-13), Economic Survey of India its states, New Century Publications, New Delhi.
 5. Desai Mutalik and Bhalerao Nirmal (Latest Edition) *Bharatiya Arthvyavasta*, Nirali Prakashan, Pune.(In Marathi Language)
 6. Dr.Wavare and Dr. Ghatage (2010), *Bharatiya Arthvyavasta*, Nirali Prakashan, Pune.(In Marathi Language)
 7. India 2014-15.
 8. Handbook of Indian Statistics - 2015.
 9. Economic Survey of India - Various issues
 10. World Development Report - Various issues
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B.A.-I
Economics Course – 2

June 2018 onwards

Indian Economy - II

Preamble : This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the Indian economy. It endeavors to provide useful insights to the students about the present economic standing and composition of the Indian economy, the major sectors and their relative importance in the Indian economy and the major challenges faced by it

Objectives : 1.To acquaint the students with the policies and performance of major sectors in Indian Economy.
2.To explain the economic reforms introduced in India since 1991.

Semester – II

	Teaching Hours	Credits
Module – I Policies and Performance in Agriculture	15	01
1.1 Changing role of agriculture in Indian Economy		
1.2 Agricultural productivity : concepts, causes of low agricultural productivity and its measures.		
1.3 Green Revolution : Causes, Success and failure, Need of 2nd Green Revolution.		
1.4 Agricultural Pricing and Procurement		
Module - II Policies and Performance in Industry	15	01
2.1 Need of Industrialization		
2.2 Industrial Policy since 1991		
2.3 Problems and prospects of Cottage and Small scale Industries		
2.4 Foreign Investment Policies since 1991		
Module – III Service Sector in India	15	
3.1 Growing importance of service sector		
3.2 Significance of Banks, financial Institutions and Insurance		
3.3 Importance of IT, Transport, Communication.		
3.4 Importance of Tourism.		
Module – IV Economic Reforms	15	01
4.1 Liberalization : Concept, Implementation and Impact on Indian Economy.		
4.2 Privatization : Concept, Implementation and Impact on Indian Economy.		
4.3 Globalization : Concept, Implementation and Impact on Indian Economy.		
4.4 Recent export promotion policy.		

REFERENCE BOOKS

1. Puri V.K., Misra S.K.(Latest Edition) Indian Economy, Himalaya Publishing House, Mumbai.
 2. Agrawal A.N. (Latest Edition) Indian Economy, New Age International Publishers, New Delhi.
 3. Datt and K.P.M.Sundharam, (Latest Edition) Indian Economy, S.Chand and Company Ltd., New Delhi.
 4. Chatterjee and Mani N. (2012-13), Economic Survey of India its states, New Century Publications, New Delhi.
 5. Desai Mutalik and Bhalerao Nirmal (Latest Edition) *Bharatiya Arthvyavasta*, Nirali Prakashan, Pune.(In Marathi Language)
 6. Dr.Wavare and Dr. Ghatage (2010), *Bharatiya Arthvyavasta*, Nirali Prakashan, Pune.(In Marathi Language)
 7. India 2014-15.
 8. Handbook of Indian Statistics - 2015.
 9. Economic Survey of India - Various issues
 10. World Development Report - Various issues
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EQUIVALENCE

Sr.No.	Semester	Old Name	New Name
1.	I	Indian Economy Part – I	Indian Economy - I Economics Course 1
2.	II	Indian Economy Part – II	Indian Economy - II Economics Course 2

**Course Structure for B.A Economics
Three Years (6 Semester) Program
B.A. Part - I : ECONOMICS**

Sr. No.	Semester	Title of the Paper	Disipline	Distribution of Credit	Workload	Total Credit	Theory Marks
1.	I	Indian Economy – I	Economics Course-1	4	4 Lectures/ week	08	50
2.	II	Indian Economy – II	Economics Course-1	4	4 Lectures/ week		50

B.A. Part - II : ECONOMICS

Sr. No.	Semester	Title of the Paper	Disipline	Distribution of Credit	Workload	Total Credit	Theory Marks
1.	III	Principles of Macro Economics- I	Economics Course-3	4	4 Lectures/ week	16	50
2.	III	Money and Banking	Economics Course-4	4	4 Lectures/ week		50
3.	IV	Principles of Macro Economics- II	Economics Course-5	4	4 Lectures/ week		50
4.	IV	Banks and Financial Markets	Economics Course-6	4	4 Lectures/ week		50

B.A. Part - II : GENERIC ELECTIVE

Sr. No.	Semester	Title of the Paper	Category	Course	Distribution of Credit	Workload	Total Credit	Theory Marks
1.	III	Principles of Co-operation	Generic Elective	I	4	4 Lectures/ week	8	50
2.	IV	Co-operatives in India	Generic Elective	II	4	4 Lectures/ week		50

Sr. No.	Semester	Title of the Paper	Category	Course	Distribution of Credit	Workload	Total Credit	Theory Marks
1.	III	LabourWelfare Course I	Generic Elective	I	4	4 Lectures/ week	8	50
2.	IV	Labour Welfare Course II	Generic Elective	II	4	4 Lectures/ week		50

B.A. Part - III : ECONOMICS

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credit	Theory Marks	Term work seminar
1.	V	Principles of Micro Economics –I	Economics Course-7	4	4 Lectures/ week	20	40	10
2.	V	Economics of Development-I	Economics Course-8	4	4 Lectures/ week		40	10
3.	V	International Economics-I	Economics Course-9	4	4 Lectures/ week		40	10
4.	V	Research Methodology in Economics-I	Economics Course-10	4	4 Lectures/ week		40	10
5.	V	History of Economic Thoughts-I	Economics Course-11	4	4 Lectures/ week		40	10
Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credit	Theory marks	Term work Group project
6.	VI	Principles of Micro Economics-II	Economics Course-12	4	4 Lectures/ week	20	40	10
7.	VI	Economics of Planning	Economics Course13	4	4 Lectures/ week		40	10
8.	VI	International in Economics-II	Economics Course14	4	4 Lectures/ week		40	10
9.	VI	Research Methodology in Economics-II	Economics Course15	4	4 Lectures/ week		40	10
10.	VI	History of Economic Thoughts-II	Economics Course16	4	4 Lectures/ week		40	10

**B.A. ECONOMICS
EQUIVALENCE**

Sr. No.	Class	Semester	Title of the Paper Old	Paper No. Old	Title of the Course (New)
1.	B.A. I	I	Indian Economy Part-I	I	Indian Economy-I Economics course-1
2.	B.A. I	II	Indian Economy Part-II	II	Indian Economy-II Economics course-2
3.	B.A. II	III	Macro Economics Part-I	III	Principles of Macro Economics-I Economics course-3
4.	B.A. II	III	Banks and Financial Institutions Part-I	IV	Money and Banking. Economics course-4
5.	B.A. II	IV	Macro Economics Part-II	V	Principles of Macro Economics-II Economics course-5
6.	B.A. II	IV	Banks and Financial Institutions Part-II	VI	Banks and Financial Markets Economics course-6
7.	B.A. III	V	Micro Economics	VII	Principles of Micro Economics-I Economics course-7
8.	B.A. III	V	Economics of Development	X	Economics of Development-I Economics course-8
9.	B.A. III	V	International Economics-Part-I	XI	International Economics-I Economics course-9
10.	B.A. III	V	Research Methodology in Economics Part-I	VIII	Research Methodology in Economics-I. Economics course-10
11.	B.A. III	V	History of Economic Thoughts Part-I	IX	History of Economic Thoughts Economics course-11
12.	B.A. III	VI	Market and Pricing	XII	Principles of Micro Economics-II Economics course-12
13.	B.A. III	VI	Economics of Planning	XV	Economics of Planning Economics course-13
14.	B.A. III	VI	International Economics-Part-II	XVI	International Economics-II Economics course-14
15.	B.A. III	VI	Research Methodology in Economics Part-II	XIII	Research Methodology in Economics Economics course-15
16.	B.A. III	VI	History of Economic Thoughts Part-II	XIV	History of Economic Thoughts Economics course-16

B.A.II ECONOMICS

GENERIC ELECTIVE

Sr. No.	Class	Semester	Title of the Paper Old	Title of the Course New
1.	B.A. II	III	Principles of Co-operation(IDS) Paper-I	Principles of co-operation Course-I GE
2.	B.A. II	IV	Co-operatives in India (IDS) Paper-II	Co-operatives in India Course-II GE
3.	B.A. II	III	Labour Welfare Part-I (IDS)	Labour Welfare Course-I GE
4.	B.A. II	IV	Labour Welfare Part-II (IDS)	Labour Welfare Course-II GE

Abrivasion: G.E.-Generic Elective

Shivaji University ,Kolhapur
Revised Syllabus of B.A. Part II
Semester III
Labour Welfare
(I.D.S. Paper No.I)
From June 2019

Preamble : Labour Welfare is one of the Important branches of Economics . Labour is being considered as most important productive factor in economy. The study of labour welfare helps in understanding the labour welfare and problems, searching policy means to maximize the labour welfare. The students will understand nature, scope and problems associated with labour welfare with special reference to India.

Unit I : Introduction to Labour Welfare. (15 Lectures)

- 1.1 Definition and Meaning.
- 1.2 Nature and Scope
- 1.3 Objectives of Labour Welfare
- 1.4 Difference between labour Welfare and Social work

Unit II : Issues in Labour Welfare (15 Lectures)

- 2.1. Importance of Labour Welfare
- 2.2. Classification of Labour Problems.
- 2.3. Problems of Child Labour
- 2.4. Problems of Female Labour.

Unit III : International Labour Organization (ILO) and India. (15 Lectures)

- 3.1. Objectives, Structure and Governance of ILO
- 3.2. Achievements of ILO – Conventions, Resolutions
- 3.3. International Labour Standards
- 3.4. ILO and Indian Labour Welfare – Youth Development Policy of HRD

Unit IV : Trade Union and Labour Welfare (15 Lectures)

- 4.1. Definition, Meaning and Objectives of Trade Union.
- 4.2. Importance and Functions of Trade Union.
- 4.3. Role of Trade Union in Labour Welfare.
- 4.4. Problems of Trade Union Movement.

Reference Books

1. Kannapon, S.C, (1993), Employment Problems and Urban Labour Markets in Development Economy, Vol-I &II, Macmillan, London
2. Papola, T.S and Sharma A.N. 9Eds) (1999), Gender and Employment in India, Vikas Publishing House, New Delhi
3. Deshpande L.K and Sandesara J.C (Eds), (1970), Wage Policy and wages determination in India, Bombay University Press, Bombay
4. Memoria, C.B. (1966), Labour Problems and Social Welfare in India, Kitab Mahal, Allahabad
5. Punekar, S.D. (1978), LAbour Welfare, Trade Unionism and Industrial Relations, Himalaya Publishing House, Bombay
6. Singh, V.B. (Ed), Industrial Labour in India, Population Prakashan, Bombay
7. Misra, L (2000), Child Labour in India, Oxford University Press, New Delhi
8. Riveros L, (1990), Labour Market Policies and Labour Market Reforms in Socialist Economics, World Bank, Washington D.C
9. Indian Society for Labour Economics (ISLE) journals
10. Dr. T. N. Bhagoliwala : Economics of Labour and Industrial Relations, Sahitya publication, Agra.
11. Government of India : India Labour year Book, (Ministry of Labour)
12. Yoder Dale : Labour economic and Labour Problems
13. Pant S.C: Indian Labour Problems.
14. Sacheva and Gupta : Labour and Social welfare AjantaPrakashan Delhi.
15. Indian Journal of Labour Economics
16. Indian Journal of Human Resources
17. NSSO Reports on Employment and Unemployment

Shivaji University ,Kolhapur
Revised Syllabus of B.A. Part II
Semester IV
Labour Welfare (**I.D.S. Paper No.II**)
From June 2019

Preamble : Labour Welfare is one of the Important branches of Economics . Labour is being considered as most important productive factor in economy. The study of labour welfare helps in understanding the labour welfare and problems, searching policy means to maximize the labour welfare. The students will understand nature, scope and problems associated with labour welfare with special reference to India.

Unit I :Labour Efficiency (15 Lectures)

- 1.1 Concept and Meaning of Labour Efficiency
- 1.2. Determinants of Social Security
- 1.3.Measurementof Labour Efficiency
- 1.4.Measures to Improve Labour Efficiency

Unit II . Social Security (15. Lectures)

- 2.1. Meaning & Objectives of Social Security
- 2.2. Need for Social Security
- 2.3. Components of Social Security
- 2.4. Social Insurance, Social Assistance and Social Security.

Unit III . Labour Welfare Programmes in India (15Lectures)

- 3.1. Brief Review of Labour Welfare Programmes
- 3.2. New Economic Policy after 1991and Labour Welfare.
- 3.3. Labour Welfare Problems of Organized Sector
- 3.4. Labour Welfare Problems of UnorganizedSector.

Unit 4. Social Security Legislations in India (15Lectures)

- 4.1. Genesis of Social Security legislation in India
- 4.2 Workers Compensation Act 1923.
- 4.3. Employees Provident Fund Act 1952.
- 4.4 Child Labour (Prohibition & Regulation) Act 1986 - Maternity Benefit Act 1961 - New amendment 2017

Reference Books

1. Kannapon, S.C, (1993), Employment Problems and Urban Labour Markets in Development Economy, Vol-I &II, Macmillan, London
2. Papola, T.S and Sharma A.N. 9Eds) (1999), Gender and Employment in India, Vikas Publishing House, New Delhi
3. Deshpande L.K and Sandesara J.C (Eds), (1970), Wage Policy and wages determination in India, Bombay University Press, Bombay
4. Memoria, C.B. (1966), Labour Problems and Social Welfare in India, Kitab Mahal, Allahabad
5. Punekar, S.D. (1978), Labour Welfare, Trade Unionism and Industrial Relations, Himalaya Publishing House, Bombay
6. Singh, V.B. (Ed), Industrial Labour in India, Population Prakashan, Bombay
7. Misra, L (2000), Child Labour in India, Oxford University Press, New Delhi
8. Riveros L, (1990), Labour Market Policies and Labour Market Reforms in Socialist Economics, World Bank, Washington D.C
9. Indian Society for Labour Economics (ISLE) journals
10. Dr. T. N. Bhagoliwala: Economics of Labour and Industrial Relations, Sahitya publication, Agra.
11. Government of India : India Labour year Book, (Ministry of Labour)
12. Yoder Dale : Labour economic and Labour Problems
13. Pant S.C: Indian Labour Problems.
14. Sacheva and Gupta: Labour and Social welfare Ajanta Prakashan Delhi.
15. Indian Journal of Labour Economics
16. Indian Journal of Human Resources

SHIVAJI UNIVERSITY, KOLHAPUR
REVISED SYLLABUS OF B.A. PART II

Principles of Co-operation

Course – I GE (IDS)

To be introduced from June 2019

Semester III

PREAMBLE:

The objective of this paper is to create awareness about the working of co-operatives in Rural and Urban area. The Co-operative movement has been considered as the third important sector in the economy followed by private and public sector. The principles of co-operation and the values of the co-operative institutions need to be studied in Indian Context.

UNIT I: INTRODUCTION OF CO-OPERATION (15 Lectures)

- 1.1 Meaning and Definition of Co-operation
- 1.2 Features and Importance of Co-operation
- 1.3 Principles of Co-operation- Development and Manchester Co-operative Principles
- 1.4 International Co-operative Alliance (ICA) – Organization and Functions

UNIT II: CO-OPERATION AS A FORM OF ORGANIZATION (15 Lectures)

- 2.1: Capitalism – Features, Merits and Demerits
- 2.2: Socialism – Features, Merits and Demerits
- 2.3: Co-operation – A Golden mean between Capitalism and Socialism
- 2.4: Role of Co-operation in Mixed Economy

UNIT III: ROLE OF STATE IN CO-OPERATION (15 Lectures)

- 3.1: Role of State in the development of Co-operative movement
- 3.2: Co-operative Judicial System
- 3.3: Role of Co-operative Registrar
- 3.4: Effects of Globalization in Co-operative Movement

UNIT IV: CO-OPERATIVE AUDIT (15 Lectures)

- 4.1: Meaning and Need of Cooperative Audit
- 4.2: Need and Types of Co-operative Audit
- 4.3: Role of Co-operative Auditor

4.4: Merits and Demerits of Co-operative Audit System

REFERENCES:

1. Bedi R.D – Theory, history and practice of Co-operation. Loyal Book Depot, Meerut
2. Datta and Sundaram – Indian Economy, S. Chand and Company, New Delhi
3. Dr. C. N. Sontakki – Co-operative Development, Sheth Publication Mumbai
4. Hajela T. N – Principles, Problems and Practice of Co-operation, ShivalalAgarwal Publication, Agra
5. Mathur B.S – Co-operation in India, SahityaBhavan, Agra
6. Mukhi H. R. –Co-operation in India and Abroad, R. B. Publications
7. Dr. Memoria C.B &Saksena R. D – Co-operation in India, KitabMahal Allahabad
8. Karve D.G – Co-operative Principles and Substance
9. Kamat G. S – Principles, Practice and Management of Co-operation

SHIVAJI UNIVERSITY, KOLHAPUR

REVISED SYLLABUS OF B.A. PART II

CO-OPERATIVES IN INDIA

Course – II GE (IDS)

From June 2019

Semester IV

PREAMBLE:

The objective of this paper is to create awareness about the working of co-operatives on Rural and Urban area. The Co-operative movement has been considered as the third important sector in the economy followed by private and public sector. The principles of co-operation and the values of the co-operative institutions need to be studied in Indian Context.

UNIT I: CO-OPERATIVE CREDIT IN INDIA

(15 Lectures)

- 1.1: Primary Agricultural Credit Co-operative Societies - Functions, Importance and Problems
- 1.2: District Central Co-operative Banks- Functions, Importance and Problems
- 1.3: State Co-operative Bank – Functions, Importance and Problems
- 1.4: Urban Co-operative Banks – Functions, Problems and Remedies

UNIT II: CO-OPERATIVE MARKETING IN INDIA

(15 Lectures)

- 2.1: Need and Importance
- 2.2: Structure of Co-operative Marketing

2.3: Problems and Remedies of Co-operative Marketing

2.4: NAFED – Objectives and Functions

UNITIII: CO-OPERATIVE PROCESSING SOCIETIES ININDIA (15 Lectures)

3.1: Role of Co-operative processing societies in rural Development

3.2: Sugar Co-operatives - Problems and Remedies

3.3: Dairy Co-operatives - Problems and Remedies

3.4: Women Empowerment through Co-Operative Processing

UNITIV: ROLE OF NATIONAL INSTITUTIONS IN CO-OPERATION (15 Lectures)

4.1: National Bank for Agricultural and Rural Development (NABARD)

4.2: National Co-operative Development Corporation (NCDC)

4.3: National Co-operative Union of India (NCUI)

4.4: 97th Constitutional Amendment and main changes in Maharashtra Co-operative Societies Act

REFERENCES:

1. Bedi R.D – Theory, history and practice of Co-operation. Loyal Book Depot, Meerut
2. Datta and Sundaram – Indian Economy, S. Chand and Company, New Delhi
3. Dr. C. N. Sontakki – Co-operative Development, Sheth Publication Mumbai
4. Hajela T. N – Principles, Problems and Practice of Co-operation, ShivalalAgarwal Publication, Agra
5. Mathur B.S – Co-operation in India, SahityaBhavan, Agra
6. Mukhi H. R. –Co-operation in India and Abroad, R. B. Publications
7. Dr. Memoria C.B &Saksena R. D – Co-operation in India, KitabMahal Allahabad
8. Karve D.G – Co-operative Principles and Substance
9. Kamat G. S – Principles, Practice and Management of Co-operation
10. Singh L.P – Co-operative Marketing
11. SahakarJagat – Various Issues

Shivaji University, Kolhapur
Revised Syllabus of B.A. II
To be introduced from June, 2019
Money and Banking Paper No. - IV
(Semester III)

Preamble:

To create the awareness among the students and Job Prospects in Banks and Financial Sector. Clear understanding of the operation of banks and financial institutions to the students with practical inputs.

Unit I: Introduction to Banking **15 Lectures**

- 1.1 Meaning and Functions of Commercial Banks
- 1.2 Types of Banks - Public, Private, Foreign and Cooperative
- 1.3 Principles and Investment Policy of Commercial Banks - Balance Sheet of banks
- 1.4 Processes of Credit Creation and its Limitations

Unit II: Practical Banking **15 Lectures**

- 2.1 Types and features of Bank Accounts
- 2.2 Opening, KYC, Operating and Closing of an Account
- 2.3 Banker's and Customer's Rights and Obligations
- 2.4 Negotiable Instruments: Main Features

Unit III: Reserve Bank of India **15 Lectures**

- 3.1 History and Organizational Structure
- 3.2 Functions of RBI - Traditional and Developmental
- 3.3 Monetary Policy - Meaning and Objectives
- 3.4 Instruments of Credit Control

Unit IV: Banking Practices in India

15 Lectures

4.1 Bank Ombudsman Scheme- Meaning, Power and Duties

4.2 Meaning, Process and Importance of Credit (Loan) Appraisal

4.3 Advantages and Disadvantages of Bank Mergers

4.4 Meaning, Causes and Remedies of NPA

Suggested Additional Readings:

1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi
2. BhasinNitin(2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi
3. Berg Braam van den (2015),Understanding Financial Markets & Instruments, Academy of Financial Market, <https://eagletraders.com/books/afm/afm4.php>
4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England.
5. Gupta, L.C (1997),Stock Exchange Trading in India; Society for Capital Market Research and Development
6. Sethi Jyotsna and Bhatia Nishwan (2003),Elements of Banking and Insurance, Prentice Hall of India,New Delhi
7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited
8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.
9. Vasant Desai, "Bank and Institutional Management", Himalaya Publishing House.
10. Dr. P. K. Srivastava, "Banking Theory and Practices", Himalaya Publishing House
11. GordenNatrajan “Banking Theory law and practices” Himalaya publishing Houses.
12. M.Y. Khan, “Indian Financial System”, Tata McGraw Hill.

Shivaji University, Kolhapur
Revised Syllabus of B.A. II
To be introduced from June, 2019
Banks and Financial Markets Paper No. - VI
(Semester- IV)

Preamble:

To create the awareness among the students and Job Prospects in Banks and Financial Sector. Clear understanding of the operation of banks and financial institutions to the students with practical inputs.

Unit I: Financial System in India

15 Lectures

- 1.1 Structure and Importance of Financial System
- 1.2 Features and Structure of Money Market in India
- 1.3 Features and Structure of Capital Market in India and Role of SEBI
- 1.4 Functions of Stock Market in India

Unit II: Indian Financial Institutions

15 Lectures

- 2.1 Non-Bank Financial Institutions: Concept and Growth
- 2.1 Loan companies in India, Functioning and problem
- 2.3 Functions of EXIM Bank
- 2.4 Mutual Funds: Meaning, Types and Importance

Unit III: Banking Reform

15 Lectures

- 3.1 Recommendation of the Narasimham Committee (1991)
- 3.2 Recommendation of the Narasimham Committee (1998)
- 3.3 Foreign Direct Investment in Banking
- 3.4 Concept of Payment Bank and Small Finance Bank

Unit IV: E-Banking Service

15 Lectures

- 4.1 E-Banking – Meaning, Features and Types
- 4.2 Features of Credit and Debit card
- 4.3 NEFT and RTGS, Cheque Truncation System
- 4.4 Cyber Crimes in Banking – Meaning, Types and Precaution

Suggested Additional Readings:

1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi
2. BhasinNitin(2010), Financial Institutions and Financial Markets in India: Functioning and Reforms. New Century Publications, New Delhi
3. Berg Braam van den (2015),Understanding Financial Markets & Instruments, Academy of Financial Market, <https://eagletraders.com/books/afm/afm4.php>
4. Cade, Eddie (1998) Managing Banking Risks, Wood head Publishing Ltd., in association with The Chartered Institute of Bankers, England.
5. Gupta, L.C (1997),Stock Exchange Trading in India; Society for Capital Market Research and Development
6. Sethi Jyotsna and Bhatia Nishwan (2003),Elements of Banking and Insurance, Prentice Hall of India,New Delhi
7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited
8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.
9. Vasant Desai, "Bank and Institutional Management", Himalaya Publishing House.
10. Dr. P. K. Srivastava, "Banking Theory and Practices", Himalaya Publishing House
11. Gorden Natarajan “Banking Theory law and practices” Himalaya publishing Houses.
12. M.Y. Khan, “Indian Financial System”, Tata McGraw Hill.
13. Reserve Bank of India,Report on Trend and progress of Banking in India.

Shivaji University Kolhapur

B.A. Part II Economics

Macro Economics -I (Paper-III) (Sem-III)

Preamble: The purpose of teaching this paper is to introduce the basic primary and analytically important concepts, theories and policies in the working of the economy to the learners. It attempts to enable the students to apply various concepts in the process of policy making, planning of measures to ensure and achieve the fundamental objectives of macroeconomic policy.

Unit 1: Introduction to Macro Economics (Periods -15)

- 1.1 Meaning, Definitions, Nature and Scope
- 1.2 Difference between Micro and Macro Economics
- 1.3 Importance and Limitations
- 1.4 Macro Economic Variables

Unit 2: National Income (Periods -15)

- 2.1 Meaning and Definitions
- 2.2 Different concepts: GDP, GNP, NNP, GDP at market prices and at factor cost, Per Capita Income, Personal Income, Disposable Income.
- 2.3 Methods of Measuring National Income: Product, Income and Expenditure.
- 2.4 Difficulties in the measurement of National Income, Importance of National Income Data.

Unit 3: Money and Value of Money (Periods -15)

- 3.1 Definitions and Functions of Money.
- 3.2 Value of Money: Quantity Theory of Money - Transaction Approach, Cash Balance Approach.

3.3 Index Number: Meaning and Types, Construction of Simple and Weighted Index Numbers.

3.4 Importance of Index Number.

Unit 4: Output and Employment

(Periods -15)

4.1 Say's Law of Market.

4.2 Keynesian Theory of Employment.

4.3 Consumption Function: Average Propensity to Consume (APC), Marginal Propensity to Consume (MPC), Factors affecting Consumption function.

4.4 Investment Function, Concept of Multiplier.

Reference Books:

1. Jhingan M.L., Macro Economic Theory, Vrinda Publication, Delhi.
2. Mithani D.M., Monetary Theory, Vota and Company, Mumbai.
3. Mithani D.M., Macro Economics, Himalaya Publishing House.
4. Dewett K.K., Modern Economic Theory, S. Chand & Co., Ltd., New Delhi.
5. Ackley G, Macro Economics: Theory and Policy, Macmillan, New York.
6. Keynes J.M., General Theory of Employment, Interest and Money, Macmillan and Co. London.
7. Seth M.L., An Introduction to Keynesian Economics, Lakshmi Narain Agarwal, Agra.
8. Fisher Irving, The purchasing power of money, Macmillan New York.
9. Shaprio Edward, Macro Economic Analysis, Galgotia Publication's New Delhi.
10. Dwivedi D. N (2017) Macro Economics – Theory and Policy; Mc Graw Hill Education
11. Ahuja H. L (2017) Advanced Economic Theory; S. Chand & Company, New Delhi

12. Ahuja H. L (2016) Macro Economics Theory and Practices; S. Chand & Company, New Delhi.

13. प्रा. रामदेशमुख, आधुनिकस्थूलअर्थशास्त्र, विद्याप्रकाशननागपूर.

14. जी. एन. झामरे, स्थूलअर्थशास्त्र, पिंपळापुरेअँडकंपनीपब्लिशर्सनागपूर.

15. पाटील जे. एफ. (२०१४) साकलिक अर्थशास्त्र, फडके प्रकाशन, कोल्हापूर.

Shivaji University Kolhapur

B.A. Part II Economics

Macro Economics - II (Paper-V) (Sem - IV)

Preamble: Macro Economics is aggregative economics which examines the interrelations among the various aggregates. Macro Economics is not only scientific method of analyses, but also a body of empirical economic knowledge. This paper equips the students to understand the basic theoretical framework underling in the field of macro economics.

Unit :1 Inflation

(Periods -15)

- 1.1 Meaning, Definitions and Types
- 1.2 Causes of Inflation
- 1.3 Effects of Inflation
- 1.4 Remedies of Controlling Inflation

Unit :2 Trade Cycles

(Periods -15)

- 2.1 Meaning and Features.
- 2.2 Phases of Trade Cycles.
- 2.3 Theories of Trade Cycles: Hawtrey, Schumpeter.
- 2.4 Control of Trade Cycles.

Unit :3 Public Finance – I

(Periods -15)

3.1 Meaning, Nature and Scope.

3.2 Principle of Maximum Social Advantage.

3.3 Taxation: Direct and Indirect Taxes-Meaning, Merits and Demerits.

3:4 Budget: Budgetary process

Unit: 4 Public Finance-II

(Periods -15)

4.1 Public Expenditure: Meaning and Causes of growth of Public Expenditure.

4.2 Public Debt: Meaning, Sources and Effects.

4.3 Deficit Financing: Meaning, types and Methods.

4.4 Fiscal Policy: Meaning, Objectives and Instruments.

Reference Books:

1.Jhingan M.L., Macro Economics Theory,Vrinda Publication, Delhi.

2.Mithani D.M., Monetary Theory,Vota and Company, Mumbai.

3.Mithani D.M., Macro Economics, Himalaya Publishing House.

4.Dewett K.K., Modern Economic Theory,S.Chand & Co., Ltd., New Delhi.

5.Ackley G, Macro Economics: Theory and Policy, Macmillan, New York.

6.keynes J.M., General Theory of Employment, Interest and money, Macmillan and Co.London.

7.Seth M.L., An Introduction to Keynesian Economics, Lakshmi Narain Agarwal,Agra.

8.Fisher Irving, The purchasing power of money, Macmillan New York.

9.Shaprio Edward, Macro Economic Analysis,Galgotia Publication's New Delhi.

10. Ahuja H. L (2017) Advanced Economic Theory; S. Chand & Company, New Delhi
11. Ahuja H. L (2016) Macro Economics Theory and Practices; S. Chand & Company, New Delhi.
12. Lekhi R. L. (2013) Public Finance; Kalyani Publisher New Delhi.
13. प्रा. रामदेशमुख, आधुनिकस्थूलअर्थशास्त्र, विद्याप्रकाशननागपूर.
14. जी. एन. झामरे, स्थूलअर्थशास्त्र, पिंपळापुरेअँडकंपनीपब्लिशर्सनागपूर.
15. पाटील जे. एफ. (२०१४) साकलिक अर्थशास्त्रब, फडके प्रकाशन, कोल्हापूर.

SHIVAJI UNIVERSITY, KOLHAPUR



Revised syllabus for
Bachelor of Arts (Part – III)

SEMESTER V & VI

ECONOMICS

Syllabus to be implemented from June 2020 onwards

Equivalence B.A.III Economics Sem- V

Sem No.	Paper No.	Title of Old Paper	Sem No.	Discipline	Title of New Paper
V	VII	Micro Economics	V	Economics Course - 7	Principles of Micro Economics- I
V	VIII	Research Methodology in Economics (Part I)	V	Economics Course- 10	Research Methodology in Economics- I
V	IX	History of Economic Thoughts (Part I)	V	Economics Course - 11	History of Economic Thoughts- I
V	X	Economics of Development	V	Economics Course - 8	Economics of Development
V	XI	International Economics (Part I)	V	Economics Course - 9	International Economics- I

Equivalence B.A.III Economics Sem- VI

Sem No.	Paper No.	Title of Old Paper	Sem No.	Economics Course	Title of New Paper
VI	XII	Market and Pricing	VI	Economics Course- 12	Principles of Micro Economics- II
VI	XIII	Research Methodology in Economics (Part II)	VI	Economics Course- 15	Research Methodology in Economics- II
VI	XIV	History of Economic Thoughts (Part II)	VI	Economics Course- 16	History of Economic Thoughts- II
VI	XV	Economics of Planning	VI	Economics Course- 13	Economics of Planning
VI	XVI	International Economics (Part II)	VI	Economics Course- 14	International Economics- II

Structure of Course
Revised syllabus of B.A. Part III (Economics)

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credits	Theory Marks	Term work seminar
1	V	Principles of Micro Economics- I	Economics Course- 7	4	4 Lectures / week	20	40	10
2	V	Economics of Development	Economics Course- 8	4	4 Lectures / week		40	10
3	V	International Economics- I	Economics Course- 9	4	4 Lectures / week		40	10
4	V	Research Methodology in Economics- I	Economics Course- 10	4	4 Lectures / week		40	10
5	V	History of Economic Thoughts- I	Economics Course- 11	4	4 Lectures / week		40	10
Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credits	Theory Marks	Term work Group Project
6	VI	Principles of Micro Economics- II	Economics Course- 12	4	4 Lectures / week	20	40	10
7	VI	Economics of Planning	Economics Course- 13	4	4 Lectures / week		40	10
8	VI	International Economics- II	Economics Course- 14	4	4 Lectures / week		40	10
9	VI	Research Methodology in Economics- II	Economics Course- 15	4	4 Lectures / week		40	10
10	VI	History of Economic Thoughts- II	Economics Course- 16	4	4 Lectures / week		40	10

B. A. III Economics (Semester V) (CBCS Pattern)

Principles of Micro Economics- I

(Elective Course- 7) DSE E-71

Course Outcomes: After successful completion of this course, the students will be able to:

- Explain what economics is and explain why it is important
- Understand consumer decision making and consumer behaviour
- Define the concept of utility and satisfaction
- Derive revenue and cost figures as well as curves
- Understand producer decision making and producer behaviour

Module- I Introduction to Micro Economics (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning, nature and scope
- 1.2 Importance and limitations
- 1.3 The Economic Problem- Scarcity and Choice; concept of opportunity cost
- 1.4 Framework of economic analysis- Concept, module, parameters

Module- II Consumer's Behaviour (Teaching Hours- 15, Credits- 01)

- 2.1 Utility- concept, total and marginal utility
- 2.2 Cardinal utility approach: law of diminishing marginal utility
- 2.3 Ordinal utility approach: meaning and properties of indifference curve
- 2.4 Consumer's equilibrium and consumer's surplus

Module- III Demand and Supply Analysis (Teaching Hours- 15, Credits- 01)

- 3.1 Law of demand, demand function, determinants of demand
- 3.2 Elasticity of demand: price, income, cross and substitution
- 3.3 Measurement and importance
- 3.4 Law of supply, supply function and elasticity

Module- IV Theory of Production (Teaching Hours- 15, Credits- 01)

- 4.1 Law of variable proportions and law of returns to scale
- 4.2 Economies and diseconomies of scale
- 4.3 Revenue- total, marginal and average revenue
- 4.4 Cost concepts and their relationship, cost curves- short run and long run

BASIC READING LIST:

1. Dominic Salvator (2012) – Principles of Micro Economics, 5th edition, Oxford University Press, Oxford.
2. John B. Taylor & Akila Weerapana, (2011) 'Principles of Economics', 7th Edition, Cengage Learning, India, New Delhi.

3. Koutsoyiannis, A. (1979), *Modern Microeconomics*, 2nd Edition, Macmillan Press, London.
4. Lipsey Richard G., (latest edition), *An Introduction to Positive Economics*, Weidenfeld & Nicolson, London.
5. Lipsey, R.G. and K.A. Chrystal (latest edition), *Principles of Economics (IX Ed.)*, Oxford University Press, Oxford.
6. Mankiw, N. Gregory (2008), *Principles of Microeconomics*, 5th Edition, Cengage Learning India, New Delhi.
7. Mansfield, E (latest edition), *Microeconomics (9th Ed)* W.W. Norton and Company, New York.
8. Pindyek and Rubinfeld (latest edition)- *Micro Economics*, Pearson Education, New Delhi.
9. Ray, N.C. (latest edition), *An introduction to Microeconomics*, Macmillan company of India Ltd.
10. Samuelson, P.A. and W.D. Nordaus (latest edition), *Economics*, Tata McGraw Hill, New Delhi.
11. Stonier, A.W. and D.C. Hague (latest edition), *A Textbook of Economic Theory*, ELBS and Logman Group, London.
12. Varian, Hall (1992): *Microeconomic Analysis*, Third Edition, W. W. Norton & Company, Inc, New York.

B. A. III Economics (Semester V) (CBCS Pattern)

Economics of Development

(Elective Course- 8) DSE – E - 72

Course Outcomes: After successful completion of this course, the students will be able to:

- Identify the dimensions of development
- Distinguish the fundamental and contemporary development debate
- Know the theories of economic development
- Realise the role of state in economic development

Module- I: Basic concepts of economic development (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning of economic development- Distinction between economic development and growth
- 1.2 Indicators of economic development
- 1.3 Obstacles to economic development
- 1.4 Sustainable and green development

Module- II: Developing and developed countries (Teaching Hours- 15, Credits- 01)

- 2.1 Underdevelopment and characteristics
- 2.2 Factors affecting economic development
- 2.3 Features of economic growth
- 2.4 Developmental status of Indian economy

Module- III: Theories of economic development (Teaching Hours- 15, Credits- 01)

- 3.1 Classical approach to development- Ricardian Theory
- 3.2 Myrdal's theory of economic development
- 3.3 Rostow's stages of economic growth
- 3.4 Theory of balanced and unbalanced growth

Module- IV: Resources for economic development (Teaching Hours- 15, Credits- 01)

- 4.1 Capital formation, Technology and economic development
- 4.2 Human capital and economic development
- 4.3 FDI, FIIs, Portfolio and Aid
- 4.4 Role of state in economic development

BASIC READING LIST:

1. Adelman, Irma (1962), *Theories of Economic Growth and Development*, Stanford University Press, Stanford.
2. Behrman, S. and T.N. Srinivasan (1995), *Handbook of Development Economics*, Vol. 1 to 3, Elsevire, Amsterdam. Economics 31
3. Ghatak, Subrata (1986), *Introduction to Development Economics*, Allen and Unwin, London.
4. Hayami, Yujiro and Yoshihisa Godo (1997), *Development Economics*, Oxford University Press, New York.
5. Higgins, Benjamin (1980), *Economic Development*, Norton, New York.

6. Kindleberger, C.P. (1965), *Economic Development*, 3e, McGraw Hill, New York.
7. Meier, Gerald M. and James E. Rauch (2005), *Leading Issues in Economic Development*, 6e, Oxford University Press, New Delhi.
8. Myint, Hla (1965), *The Economics of Underdeveloped Countries*, Preager, New York.
9. Myint, Hla (1971), *Economic Theory and Under Developed Countries*, Oxford University Press, New York.
10. Thirlwal, A.P. (1999), (6th Edition), *Growth and Development*, Macmillan, London.
11. Bhagwati, J. and P. Desai (1970), *India : Planning for Industrialization*, Oxford University Press, London.
12. Boserup, Ester (1981), *Population and Technological Change : A Study of Long Term Change*, Chicago University Press, Chicago.
13. Brahmananda, P.R. and C.N. Vakil (1956), *Planning for an Expanding Economy*, Vora and Co., Bombay.
14. Puri V. K. And S. K. Misra (2016), *Economics of Development and Planning*, Himalaya Publishing House.
15. Datta Gaurav and Ashwini Mahajan (2016), *Indian Economy*, S. Chand Publishing, New Delhi
16. Todaro Michael P. And Stephen C. Smith (2017), *Economic Development*, Pearson Education.
17. Chakravarti, Sukhamoy (1982), *Alternative Approaches to the Theory of Economic Growth*, Oxford University Press, Delhi.
18. Chakravarty, Sukhamoy (1987), *Development Planning : The Indian Experience*, Clarendon Press, Oxford.
19. Jhingan, M.L. (2005) *The Economics of Development and Planning* , Vrinda Publications Ltd. Delhi
20. Lekhi, R.K. (2005) *Economics of Development and Planning*, Kalyani Publishers, Delhi.
21. Patil, J. F. (et al) (2005) *Economics of Growth and Development* (Marathi) , Phadake Publishers, Kolhapur.
22. Patil, J.F. & Tamhankar, P.J. (1990) *Economics of Development and Planning* (Marathi), Continental Publishers, Pune.
23. Kavimandan (1975), *Economics of Development and Planning* (Marathi), Mangesh Prakashan , Nagpur

B. A. III Economics (Semester V) (CBCS Pattern)
International Economics- I
 (Elective Course- 9) DSE – E 73

Course Outcomes: After successful completion of this course, the students will be able to:

- Explain international trade
- Understand the measurement of gains from international trade
- Distinguish different rates of exchange
- Measure the terms of trade

Module- I: Trade and Trade Theories **(Teaching Hours- 15, Credits- 01)**

- 1.1 Importance of the study of International Economics
- 1.2 Inter-regional and international trade: similarities and dissimilarities.
- 1.3 Ricardian theory of international trade
- 1.4 Hecksher – Ohlin Theory

Module- II: Gains from International Trade **(Teaching Hours- 15, Credits- 01)**

- 2.1 Gains from international trade and their measurement
- 2.2 Trade as an engine of economic growth.
- 2.3 Terms of trade: meaning, concepts and application
- 2.4 Factors affecting terms of trade

Module- III: Exchange Rate **(Teaching Hours- 15, Credits- 01)**

- 3.1 Meaning of exchange rate, Purchasing Power Parity theory
- 3.2 Fixed Exchange Rate – meaning, merits and demerits
- 3.3 Flexible Exchange Rate – meaning, merits and demerits
- 3.4 Floating Exchange Rate – meaning, merits and demerits

Module- IV: Tariffs and Quotas **(Teaching Hours- 15, Credits- 01)**

- 4.1 Free Trade: meaning, arguments for and against
- 4.2 Trade Protection Policy: meaning, arguments for and against.
- 4.3 Tariffs: meaning, types and effects
- 4.4 Quotas: meaning, types and effects.

BASIC READING LIST:

- 1 Aggarwal, M. R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- 2 Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass.
- 3 Crockett. A. (1982), International Money: Issue and Analysis, ELBS and Nelson, London.

- 4 Greenaway. D. (1983), International Trade Policy, MacMillan Publishers Ltd., London.
- 5 Heller, H. R. (1968), International Monetary Economics, Prentice Hall. India.
- 6 Joshi V. and I.M.D. Little (1998), India's Economic Reforms, 1999-2001, Oxford
- 7 Kenan, P.B. (1994), The International Economy, Cambridge University Press, London.
- 8 Kindlberger, C. P. (1973), International Economics, R.D. Irwin, Homewood.
- 9 Krugman, P. R. and M. Obstgeld (1994), International Economics: Theory and Policy, Glenview, Foresman.
- 10 Mithani D.M. (Reprint-2009) International Economics, Himalaya Publishing House, New Delhi.
- 11 Nayyar,D. (1976) : India's Exports and Export Policies in the 1960s, Cambridge University Press, Cambridge.
- 12 Panchmukhi, V. R. (1978), Trade Policies of India: A Quantitative Analysis, Concept University Press, Delhi.
- 13 Patel, S. J. (1995), Indian Economy Towards the 21st Century, University Press Ltd., India.
- 14 RuddarDatt& K.P.M. Sundaram, (2018), Indian Economy, S. Chand & Co. Ltd., New Delhi
- 15 Salvatore, D. L. (1997), International Economics, Prentice- Hall, Upper Saddle River, N. J.
- 16 Singh, M. (1964), India Export Trends and the Prospects for Self-sustained Growth, Oxford University Press, Oxford.
- 17 Sodersten, Bo (1991), International Economics, MacMillan Press Ltd. London

B. A. III Economics (Semester V) (CBCS Pattern)

Research Methodology in Economics- I

(Elective Course- 10) DSE – E 74

Course Outcomes: After successful completion of this course, the students will be able to:

- Get acquainted with the basic concepts of research and its methodologies.
- Select and define appropriate research problem and parameters.

Module- I: Introduction to research in economics (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning, definitions and objectives of research
- 1.2 Types of research
- 1.3 Significance of research
- 1.4 Areas of economic research

Module- II: Literature review and research design (Teaching Hours- 15, Credits- 01)

- 2.1 Literature review- meaning, need, how to carry out a literature review?
- 2.2 Research design- steps in research design
- 2.3 Features of good research design
- 2.4 Importance of research design

Module- III: Hypothesis and concept (Teaching Hours- 15, Credits- 01)

- 3.1 Meaning and definition, kinds of hypothesis
- 3.2 Features of hypothesis
- 3.3 Importance of hypothesis
- 3.4 Concept- meaning, conceptualization, formal and operational definition of concept

Module- IV: Data collection (Teaching Hours- 15, Credits- 01)

- 4.1 Primary and secondary data
- 4.2 Primary data collection methods- observation, questionnaire, interview
- 4.3 Sources of secondary data
- 4.4 Importance of data collection

BASIC READING LIST:

1. Goode and Hatt(1981), Methods in Social Research, McGraw Hill International Book Company, New Delhi.
2. Kerlinger F.N.(1983), Foundation of Behavioural Research, Surjeet Publication, Delhi.
3. Young P. V. (1960), Scientific Social Survey and Research, Asia Publication House, Mumbai.

4. Kothari C.R. (1993), Research Methodology-Methods and Techniques, Wiley Eastern Ltd.,New Delhi.
5. Lundbrg G.A.(1960), Social Research, Longmans Green and Company, New York.
6. Herekar P .M.(2019), Research Methodology and Project Work, Phadake Prakashan,Kolhapur.
7. Settiz Claire,Jahoda Marie and Others(1959), Research Methods in SocialResearch,Dryden New York.
8. Takur Dvendra(1997), Research Methodology in Social Sciences, Deep and Deep Publication,New Delhi.
9. Gupta S.P.and Gupta M.P.(2005), Business Statistics, Sultan Chand & Sons, New Delhi
10. Gupta C.B.(1996), An Introduction to Methods, Vikas Publication House,New Delhi.
11. देशमुख राम (जून 2005) : 'मूलभूत सांख्यिकी', विद्या प्रकाशन, नागपूर.
12. पाटील ज.फा., पठाण के.जी., ताम्हणकर पी.जे., संतोष यादव (2012) : 'अर्थशास्त्रीय संशोधनाची तोंडओळख', (सुधारित आवृत्ती), कॉन्टिनेंटल प्रकाशन, पुणे.
13. आगलावे प्रदीप (जानेवारी 2000) : 'संशोधन पध्दतीशास्त्र व तंत्रे', विद्या प्रकाशन, नागपूर.
14. खैरनार दिलीप (फेब्रुवारी 2009) : 'प्रगत सामाजिक संशोधन पध्दती व सांख्यिकी', डायमंडपब्लिकेशन्स, पुणे.
15. भांडारकर पु.ल. (1987) : 'सामाजिक संशोधन पध्दती', महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

B. A. III Economics (Semester V) (CBCS Pattern)

History of Economic Thoughts- I

(Elective Course- 11) DSE – E 75

Course Outcomes: After successful completion of this course, the students will be able to:

- Understand the basic economic ideas of various economic thinkers of the world
- Understand the development of economic thoughts

Module-I: Origin of Economic Thoughts (Teaching Hours- 15, Credits- 01)

- 1.1 Early economic thought, rise of mercantilism, features of Mercantilism
- 1.2 Meaning and causes of emergence of Physiocracy
- 1.3 The concept of natural order and primacy of agriculture
- 1.4 Tableau economique

Module- II: Classical Economic Thoughts (Teaching Hours- 15, Credits- 01)

- 2.1 Adam Smith: Division of labour, theory of value and canons of taxation
- 2.2 David Ricardo: Theory of Value and views on distribution
- 2.3 Thomas Malthus: Theory of Population
- 2.4 Theory of Gluts

Module- III: Economic Thoughts of Fredrick List (Teaching Hours- 15, Credits- 01)

- 3.1 Criticism on Classical School
- 3.2 Stages of Economic growth
- 3.3 Concept of Nationalism
- 3.4 Theory of Protectionism

Module- IV: Economic Thoughts of Karl Marx (Teaching Hours- 15, Credits- 01)

- 4.1 The Concept of Scientific Socialism and Materialist approach
- 4.2 The Theory of Value
- 4.3 Theory of Surplus Value
- 4.4 Concept of Falling rate of profit

BASIC READING LIST:

1. Dandekar V.M.and N.Nath (1971), Poverty in India, Indian school of political Economy, Pune.
2. Ganguli B. N. (1977): Indian Economic Thought - A 19th Century Perspectives, Tata Mc Grow Hill, New Delhi.
3. Rath Nilkanth(1995) V.M.Dandekar Social Scientist with a Difference : Journal of Indian School of Political Economy.Oct-Dec.1995, Vol-7 No-4.
4. Seshadri G.B.(1997): Economic Doctrines, Publishing Corporation, New Delhi.
5. चा.भ.खैरमोडे (१९७८) – डॉ.भीमराव रामजी आंबेडकर, खंड १ ला , खंड २ रा खंड ७ वा, प्रताप प्रकाशन.

6. गांधी मो.क.(१९९७) -मराठी अनुवाद सीताराम पुरोषोत्तम पटवर्धन'सत्याचे प्रयोग अथवा आत्मकथा पाचवी आवृत्ती.
7. डॉ.जे.एफ.पाटील (२०१५)- आर्थिक विचारांचा इतिहास, फडके प्रकाशन, कोल्हापूर.
8. इंगळे बी.डी. (२०११) आर्थिक विचारांचा इतिहास, अरुणा प्रकाशन, लातूर.
9. प्रा.रायखेलकर,डॉ.दामजी (२०११) – आर्थिक विचारांचा इतिहास, विद्या बुक पब्लिशर्स,औरंगाबाद.
10. प्रा.डॉ.अनिलकुमार वावरे, प्रा.संजय धोंडे, व डॉ.अनिल सत्रे (२०१४)- आर्थिक विचारांचा इतिहास, एज्युकेशनल पब्लिशर्स अँड डिस्ट्रिब्युटर्स,औरंगाबाद.
11. प्रा.रा.म.गोखले - आर्थिक विचारांचा इतिहास
12. डॉ.विजय कविमंडन - आर्थिक विचारांचा इतिहास

B. A. III Economics (Semester VI) (CBCS Pattern)

Principles of Micro Economics- II

(Elective Course- 12) DSE E 196

Course Outcomes: After successful completion of this course, the students will be able to:

- Identify the market structure
- Analyse the economic behaviour of individual firms and markets
- Analyse a firm's profit maximising strategies under different market conditions
- Understand the factor pricing

Module- I Perfect Competition

(Teaching Hours- 15, Credits- 01)

- 1.1 Meaning and characteristics
- 1.2 price and output determination under perfect competition
- 1.3 Equilibrium of the firm and industry in the short run
- 1.4 Equilibrium of the firm and industry in the long run

Module- II Monopoly

(Teaching Hours- 15, Credits- 01)

- 2.1 Meaning and characteristics
- 2.2 Price discrimination and degrees
- 2.3 Equilibrium of a monopoly firm in the short run and long run
- 2.4 Monopoly and capacity loss

Module- III Imperfect Competition

(Teaching Hours- 15, Credits- 01)

- 3.1 Meaning and characteristics
- 3.2 Price- output determination
- 3.3 Product differentiation
- 3.4 Oligopoly and duopoly- meaning and characteristics

Module- IV Factor Pricing

(Teaching Hours- 15, Credits- 01)

- 4.1 Marginal productivity theory
- 4.2 Modern theory of rent
- 4.3 Classical and Keynesian theory of interest
- 4.4 Risk and uncertainty theory of profit

BASIC READING LIST:

1. Dominic Salvator (2012) – Principles of Micro Economics, 5th edition, Oxford University Press, Oxford.
2. John B. Taylor & Akila Weerapana, (2011) 'Principles of Economics', 7th Edition, Cengage Learning, India, New Delhi.

3. Koutsoyiannis, A. (1979), *Modern Microeconomics*, 2nd Edition, Macmillan Press, London.
4. Lipsey Richard G., (latest edition), *An Introduction to Positive Economics*, Weidenfeld & Nicolson, London.
5. Lipsey, R.G. and K.A. Chrystal (latest edition), *Principles of Economics (IX Ed.)*, Oxford University Press, Oxford.
6. Mankiw, N. Gregory (2008), *Principles of Microeconomics*, 5th Edition, Cengage Learning India, New Delhi.
7. Mansfield, E (latest edition), *Microeconomics (9th Ed)* W.W. Norton and Company, New York.
8. Pindyek and Rubinfeld (latest edition)- *Micro Economics*, Pearson Education, New Delhi.
9. Ray, N.C. (latest edition), *An introduction to Microeconomics*, Macmillan company of India Ltd.
10. Samuelson, P.A. and W.D. Nordaus (latest edition), *Economics*, Tata McGraw Hill, New Delhi.
11. Stonier, A.W. and D.C. Hague (latest edition), *A Textbook of Economic Theory*, ELBS and Logman Group, London.
12. Varian, Hall (1992): *Microeconomic Analysis*, Third Edition, W. W. Norton & Company, Inc, New York.

B. A. III Economics (Semester VI) (CBCS Pattern)

Economics of Planning (Elective Course- 13) DSE – E 197

Course Outcomes: After successful completion of this course, the students will be able to:

- Get acquainted with economic planning and its importance in development
- Get acquainted with development of planning and planning machinery in India
- Evaluate sectoral performance of the Indian economy
- Compare and analyse Indian models of economic development

Module- I: Introduction to economic planning (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning, Case for and against economic planning
- 1.2 Genesis of planning
- 1.3 Types of planning
- 1.4 Conditions of success of planning

Module- II: Issues in economic planning (Teaching Hours- 15, Credits- 01)

- 2.1 The choice of techniques: labour and capital intensive
- 2.2 Capital output ratio: Importance and factors affecting COR
- 2.3 Input output analysis
- 2.4 Project evaluation

Module- III: Planning in India- I (Teaching Hours- 15, Credits- 01)

- 3.1 Evolution of planning in India
- 3.2 Objectives and evaluation of planning
- 3.3 Planning Commission and National Development Council
- 3.4 NITI Ayog- Need for establishment, organization, objectives and work

Module- IV: Planning in India- II (Teaching Hours- 15, Credits- 01)

- 4.1 Plan models in Indian plans
- 4.2 Agricultural development under plans
- 4.3 Industrial development under plans
- 4.4 Services sector development under plans

BASIC READING LIST:

1. Behrman, S. and T.N. Srinivasan (1995), *Handbook of Development Economics*, Vol. 1 to 3, Elsevire, Amsterdam. Economics 31
2. Hayami, Yujiro and Yoshihisa Godo (1997), *Development Economics*, Oxford University Press, New York.
3. Kindleberger, C.P. (1965), *Economic Development*, 3e, McGraw Hill, New York.
4. Meier, Gerald M. and James E. Rauch (2005), *Leading Issues in Economic Development*, 6e, Oxford University Press, New Delhi.
5. Myint, Hla (1971), *Economic Theory and Under Developed Countries*, Oxford University Press, New York.
6. Thirlwal, A.P. (1999), (6th Edition), *Growth and Development*, Macmillan, London.

7. Bhagwati, J. and P. Desai (1970), *India : Planning for Industrialization*, Oxford University Press, London.
8. Brahmananda, P.R. and C.N. Vakil (1956), *Planning for an Expanding Economy*, Vora and Co., Bombay.
9. Puri V. K. And S. K. Misra (2016), *Economics of Development and Planning*, Himalaya Publishing House.
10. Datta Gaurav and Ashwini Mahajan (2016), *Indian Economy*, S. Chand Publishing, New Delhi
11. Chakravarty, Sukhamoy (1987), *Development Planning : The Indian Experience*, Clarendon Press, Oxford.
12. Jhingan, M.L. (2005) *The Economics of Development and Planning* , Vrinda Publications Ltd. Delhi
13. Lekhi, R.K. (2005) *Economics of Development and Planning*, Kalyani Publishers, Delhi.
14. Patil, J. F. (et al) (2005) *Economics of Growth and Development* (Marathi) , Phadake Publishers, Kolhapur.
15. Patil, J.F. & Tamhankar, P.J. (1990) *Economics of Development and Planning* (Marathi), Continental Publishers, Pune.

B. A. III Economics (Semester VI) (CBCS Pattern)

International Economics- II

(Elective Course- 14) DSE – E 198

Course Outcomes: After successful completion of this course, the students will be able to:

- Distinguish between balance of trade and balance of payments
- Analyse the balance of payments
- Understand the various types of foreign capital
- Analyse the impact of international institutions on Indian economy

Module- I: Balance of Trade and Balance of Payments(Teaching Hours- 15, Credits- 01)

- 1.1 Balance of Trade and Balance of Payments
- 1.2 Importance of Balance of Payments
- 1.3 Disequilibrium in Balance of Payments: Causes and Consequences
- 1.4 Measures to correct disequilibrium in Balance of Payments

Module- II: Foreign Trade of India since 1991 (Teaching Hours- 15, Credits- 01)

- 2.1 Volume, composition and direction
- 2.2 Exim Policy of 2014-19
- 2.3 Trade administration of India
- 2.4 Convertibility of Rupee: Meaning and types.

Module- III: Foreign Capital in India (Teaching Hours- 15, Credits- 01)

- 3.1 Need for Foreign Capital
- 3.2 Types of Foreign Capital
- 3.3 Foreign Capital Policy of Government of India
- 3.4 Trends in Foreign Direct Investment in India

Module- IV: International Institutions and India (Teaching Hours- 15, Credits- 01)

- 4.1 IMF: Objectives and Functions
- 4.2 IBRD: Objectives, Functions
- 4.3 ADB: Objectives, Functions
- 4.4 WTO: Objectives, Functions

BASIC READING LIST:

- 1 Aggarwal, M. R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- 2 Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass.
- 3 Crockett. A. (1982), International Money: Issue and Analysis, ELBS and Nelson, London.

- 4 Greenaway. D. (1983), International Trade Policy, MacMillan Publishers Ltd., London.
- 5 Heller, H. R. (1968), International Monetary Economics, Prentice Hall. India.
- 6 Joshi V. and I.M.D. Little (1998), India's Economic Reforms, 1999-2001, Oxford
- 7 Kenan, P.B. (1994), The International Economy, Cambridge University Press, London.
- 8 Kindlberger, C. P. (1973), International Economics, R.D. Irwin, Homewood.
- 9 Krugman, P. R. and M. Obstgeld (1994), International Economics: Theory and Policy, Glenview, Foresman.
- 10 Mithani D.M. (Reprint-2009) International Economics, Himalaya Publishing House, New Delhi.
- 11 Nayyar,D. (1976) : India's Exports and Export Policies in the 1960s, Cambridge University Press, Cambridge.
- 12 Panchmukhi, V. R. (1978), Trade Policies of India: A Quantitative Analysis, Concept University Press, Delhi.
- 13 Patel, S. J. (1995), Indian Economy Towards the 21st Century, University Press Ltd., India.
- 14 RuddarDatt& K.P.M. Sundaram, (2018), Indian Economy, S. Chand & Co. Ltd., New Delhi
- 15 Salvatore, D. L. (1997), International Economics, Prentice- Hall, Upper Saddle River, N. J.
- 16 Singh, M. (1964), India Export Trends and the Prospects for Self-sustained Growth, Oxford University Press, Oxford.
- 17 Sodersten, Bo (1991), International Economics, MacMillan Press Ltd. London

B. A. III Economics (Semester VI) (CBCS Pattern)

Research Methodology in Economics- II

(Elective Course- 15) DSE – E - 199

Course Outcomes: After successful completion of this course, the students will be able to:

- Understand the sampling techniques as a method of data collection
- Use techniques of data analysis in research
- Write a research report and thesis
- Write a research proposal (grants)

Module- I: Sampling (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning and nature
- 1.2 Types of sampling
- 1.3 Criteria of good sampling
- 1.4 Optimum size of sampling

Module- II: Processing and representation of data (Teaching Hours- 15, Credits- 01)

- 2.1 Classification of data
- 2.2 Tabulation of data
- 2.3 Percentage
- 2.4 Graphs and diagrams

Module- III: Techniques of data analysis (Teaching Hours- 15, Credits- 01)

- 3.1 Need and importance of data analysis
- 3.2 Measures of central tendency: mean, mode, median (direct method)
- 3.3 Measures of variation: range, standard deviation (direct method)
- 3.4 Correlation- meaning and importance, Karl Pearson's coefficient of correlation

Module- IV: Interpretation of data and report writing (Teaching Hours- 15, Credits- 01)

- 4.1 Interpretation of data: meaning
- 4.4 Report writing: meaning, steps, precautions
- 4.5 Properties of good report writing
- 4.4 Writing a good research proposal

BASIC READING LIST:

1. Goode and Hatt (1981), Methods in Social Research, McGraw Hill International Book Company, New Delhi.
2. Kerliger F.N.(1983), Foundation of Behavioural Research, Surjeet Publication, Delhi.
3. Young P. V.(1960), Scientific Social Survey and Research, Asia Publication House, Mumbai.
4. Kothari C.R. (1993), Research Methodology-Methods and Techniques, Wiley Eastern Ltd., New Delhi.
5. Lundbrg G.A.(1960), Social Research, Longmans Green and Company, New York.
6. Herekar P .M.(2019), Research Methodology and Project Work, Phadake Prakashan, Kolhapur.
7. Settiz Claire, Jahoda Marie and Others(1959), Research Methods in Social Research, Dryden New York.
8. Takur Dvendra (1997), Research Methodology in Social Sciences, Deep and Deep Publication, New Delhi.
9. Gupta S.P. and Gupta M.P.(2005), Business Statistics, Sultan Chand & Sons, New Delhi
10. Gupta C.B. (1996), An Introduction to Methods, Vikas Publication House, New Delhi.
11. देशमुख राम (जून 2005) : 'मूलभूत सांख्यिकी', विद्या प्रकाशन, नागपूर.
12. पाटील ज.फा., पटाण के.जी., ताम्हणकर पी.जे., संतोष यादव (2012) : 'अर्थशास्त्रीय संशोधनाची तोंडओळख', (सुधारित आवृत्ती), कॉन्टिनेंटल प्रकाशन, पुणे.
13. आगलावे प्रदीप (जानेवारी 2000) : 'संशोधन पध्दतीशास्त्र व तंत्रे', विद्या प्रकाशन, नागपूर.
14. खैरनार दिलीप (फेब्रुवारी 2009) : 'प्रगत सामाजिक संशोधन पध्दती व सांख्यिकी', डायमंड पब्लिकेशन्स, पुणे.
15. भांडारकर पु.ल. (1987) : 'सामाजिक संशोधन पध्दती', महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

B. A. III Economics (Semester VI) (CBCS Pattern)

History of Economic Thoughts- II

(Elective Course- 16) DSE – E 200

Course Outcomes: After successful completion of this course, the students will be able to:

- Understand the economic concepts and theories of Neo-Classical and Indian thinkers.
- Understand the development of economic thoughts

Module- I: Neo- Classical Economic Thought – Alfred Marshall

(Teaching Hours- 15, Credits- 01)

- 1.1 Theory of Value
- 1.2 The concept of representative firm
- 1.3 Consumer's surplus, elasticity of demand
- 1.4 Quasi rent

Module- II: Indian Economic Thought

(Teaching Hours- 15, Credits- 01)

- 2.1 Mahatma Phule: Views on agriculture and education
- 2.2 Rajarshi Shahu Maharaj: Policy for agriculture development and co-Operation
- 2.3 Dr. Babasaheb Ambedkar: Views on money, agriculture and development policy
- 2.4 Dadabhai Nauroji: Drain theory

Module- III: Mahatma Gandhi

(Teaching Hours- 15, Credits- 01)

- 3.1 Concept of village development
- 3.2 Importance of decentralization
- 3.3 Basic principle of development: swadeshi
- 3.4 Concept of Gram Swarajya

Module- IV: Economic Thoughts of Modern Indian Economist

(Teaching Hours- 15, Credits- 01)

- 4.1 Gopal Krishna Gokhale's views on public finance
- 4.2 D. R. Gadgil: Views on co-operative development and decentralization of power, co-operative commonwealth
- 4.3 V. M. Dandekar: Views on poverty
- 4.4 Amartya Sen: Concept of social choice, choice of techniques, Sen's views on poverty and public action

BASIC READING LIST:

1. Dandekar V.M.and N.Nath (1971), Poverty in India, Indian school of political Economy, Pune.

2. Ganguli B. N. (1977): Indian Economic Thought - A 19th Century Perspectives, Tata Mc Grow Hill, New Delhi.
 3. Rath Nilkanth(1995) V.M.Dandekar Social Scientist with a Difference : Journal of Indian School of Political Economy.Oct-Dec.1995, Vol-7 No-4.
 4. Seshadri G.B.(1997): Economic Doctrines, Publishing Corporation, New Delhi.
 5. चा.भ.खैरमोडे (१९७८) – डॉ.भीमराव रामजी आंबेडकर, खंड १ ला , खंड २ रा खंड ७ वा, प्रताप प्रकाशन.
 6. गांधी मो.क.(१९९७) -मराठी अनुवाद सीताराम पुरोषोत्तम पटवर्धन'सत्याचे प्रयोग अथवा आत्मकथा पाचवी आवृत्ती.
 7. डॉ.जे.एफ.पाटील (२०१५)– आर्थिक विचारांचा इतिहास, फडके प्रकाशन, कोल्हापूर.
 8. इंगळे बी.डी. (२०११) आर्थिक विचारांचा इतिहास, अरुणा प्रकाशन, लातूर.
 9. प्रा.रायखेलकर,डॉ.दामजी (२०११) – आर्थिक विचारांचा इतिहास, विद्या बुक पब्लिशर्स,औरंगाबाद.
 10. प्रा.डॉ.अनिलकुमार वावरे, प्रा.संजय धोंडे, व डॉ.अनिल सत्रे (२०१४)– आर्थिक विचारांचा इतिहास, एज्युकेशनल पब्लिशर्स अँड डिस्ट्रिब्युटर्स,औरंगाबाद.
 11. प्रा.रा.म.गोखले - आर्थिक विचारांचा इतिहास
 12. डॉ.विजय कविमंडन - आर्थिक विचारांचा इतिहास
-

SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962
NAAC 'A' Grade
Syllabus For
Bachelor of Commerce
B.Com. Part-I
CBCS Pattern
MICRO ECONOMICS
Sem-I & Sem-II

Introduced from June 2018 and Onwards

(Subject to the modifications will be made from time to time)

Shivaji University Kolhapur
B. Com. (CBCS Pattern)
Part- I (Semester I)
MICRO ECONOMICS Paper I
Core Course
Introduce from June-2018-19

Credits : 4

Objective- Objective of the course is to acquaint students with the concepts of micro economics dealing with consumer behaviour. The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.

Learning Outcomes – The student should be able to apply tools of consumer behaviour and firm theory to business situation.

Unit I: Demand and Consumer behaviour (15 Hours)

Concept of demand.

Indifference Curve Analysis – Meaning, indifference curve map, Characteristics, Marginal rate of substitution (MRS) - Consumer's equilibrium-Income effect, Substitution effect, Price effect. Application of indifference curve.
Engle curve.

Unit II: Demand forecasting: (15 Hours)

Meaning- Importance of demand forecasting in Business decision making.
Methods of Demand Forecasting – Market Survey, Time series and Graphical method.

Unit III: Production function- (15 Hours)

Concept of production function - fixed and variable inputs. – Law of variable proportions and Law of Returns to scale- Internal and External economies of scale.
Isoquants- Concept, Marginal Rate of Technical Substitution (MRTS), Economic region of production, Optimal combination of resources, Expansion path.

Unit IV: Cost of production and Revenue: (15 Hours)

Cost of production – Money and Real cost, Private and Social cost, Opportunity cost.
Short and long run cost curves. Modern approach of cost curves.
Revenue – Total, Average and Marginal revenue - Revenue curves in perfect competition and imperfect competition.

Shivaji University Kolhapur
B. Com. (CBCS Pattern)
Part- I (Semester II)
MICRO ECONOMICS Paper II
Core Course

Credits : 4

Objective- Objective of the course is to acquaint students with the concepts of micro economics dealing with consumer behaviour. The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.

Learning Outcomes – The student should be able to apply tools of consumer behaviour and firm theory to business situation.

Unit I: Perfect competition: (15 Hours)

Meaning -Equilibrium of firm in short run and long run.
Equilibrium of industry in short run and long run.
Measuring producer's surplus under perfect competition.

Unit II: Monopoly : (15 Hours)

Meaning. Price determination under monopoly.
Concept and types of price discrimination.
Measurement of monopoly power.

Unit III : Monopolistic competition and Oligopoly (15 Hours)

Monopolistic competition – Characteristics- Equilibrium of firm in short run and long run.
Oligopoly market- Characteristics. Price determination in Oligopoly market - Price war, Price leadership and kinky demand curve.

Unit IV: Factor Pricing (15 Hours)

Rent- Meaning - Ricardo's & Modern theory of rent
Wage- Meaning -Money and Real wage. Wage differentials.
Interest –Meaning. Liquidity preference theory of interest
Profit – Meaning. Gross and Net profit – Risks –Bearing and Uncertainty theories of profit.

Reference Books:**Sem. I and II**

- 1 Lipsey R.G. and K. A. Criystal ; ‘Economics’ ,Oxford University perss.
- 2 Bilas,Richard A, ‘Micro Economic Theory,A Graphical Analysis’ McGraw HillBook Co.Kogakusha co ltd.
- 3 Amita Sachdeva, ‘Micro Economics’ Kusum Lata Publishers.
- 4 Alfred Marshall, ‘Principals of Economics’
- 5 Boulding E. K. ‘Economic analysis’
- 6 A W Stonier and D C Hague ‘A Textbook of Economics’
- 7 Chamberlin E.H. ‘Economic Theory of Monopolistic Competition’
- 8 Baumol W. L. ‘Economic Theory and Operation Analysis’
- 9 M. L. Jhingan, ‘Advanced Economic Theory’
- 10 K. K. Dewett ‘ Modern Economic Theory’
- 11 K. P. M. Sundaram and M. C. Vaish, ‘Principles of Economics’
- 12 Samuelsson, ‘Economics’
- 13 Mrs. Joan Robinson, ‘Economics of Imperfect Competition’
- 14 J.S.Stigler , ‘Theory of Price’
- 15 H.L.Ahuja, ‘Advanced Economic Theory’
- 16 M.L.Seth, ‘Micro Economics’

Note: Latest edition of text books shall be used

Note: 60 lectures including tutorial work.

Equivalence

Sr. No	Old paper	New paper
1	Business Economics Paper I	Micro Economics Paper I
2	Business Economics Paper II	Micro Economics Paper II



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA
PHONE : EPABX-2609000 website- www.unishivaji.ac.in
FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094
शिवाजी विद्यापीठ, कोल्हापूर – 416004.
दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref./SU/BOS/Com & Mgmt./ 6032

Date : 17/06/2019

To,

The Principal
All Affiliated (Commerce & Management) College/Institutions,
Shivaji University, Kolhapur

Subject : Regarding syllabi and equivalence of B. Com. Part-II (Sem. III & IV)
Choice Based Credit System (CBCS) degree programme under the
Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. Com. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

Encl : As above

Copy to,

1. I/c Dean, Faculty of Commerce & Management
 2. Chairman, BOS under Faculty of Commerce & Management
 3. Director, BOEE
 4. Appointment Section
 5. P. G. Admission Section
 6. B. Com. Section
 7. Affiliation Section (U.G./P.G.)
 8. Computer Center/I.T.
 9. Eligibility Section
 10. Distance Education
 11. P.G. Seminar Section
- } for information
- } for information and necessary action.

SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

Faculty of Commerce & Management

Syllabus For

Bachelor of Commerce

B. Com. Part II

(Sem III & IV)

To be implemented from June 2019 onwards.

(Subject to the modifications that will be made from time to time)

Shivaji University, Kolhapur
B.Com (CBCS) Part-II (Semester-III)
Corporate Accounting Paper - I
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of issue and forfeiture of shares and re-issue of forfeited shares, discuss accounting treatment for redemption of preference shares and buyback of shares.
2. Demonstrate accounting for issue of debentures and redemption of debentures.
3. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013.
4. Practice the fundamental accounting process on Tally ERP.

Syllabus Contents

Unit I: Issue and forfeiture of shares, Re-issue of forfeited shares, Redemption of preference shares and Buyback of shares. (15 Periods)

Unit II: Issue and Redemption of Debentures (10 Periods)

Unit III: Preparation of Final Accounts of Companies. (15 Periods)

Unit IV: Practical of Fundamental Computerised Accounting (20 Periods)

- a) Introduction to Tally ERP.9, Technological Advantages, Getting Functional with Tally ERP.9, Tally ERP.9 Start-up, Mouse/Keyboard Conventions, Switching between Screen Areas, Quitting Tally ERP.9, Setting up of Company in Tally ERP.9,
- b) Create a Company- Select a Company, Alter a Company, Shut a Company, Creating Accounting Masters in Tally ERP.9, Chart of Accounts,
- c) Pre-defined Groups of Accounts, Groups- Creating Single Group, Creating Multiple Group, Displaying Group, Altering Group,
- d) Ledgers, Creating Single Ledger, Creating Multiple Ledger, Displaying Ledger, Altering Ledger, Voucher Entry in Tally ERP.9,
- e) Accounting Vouchers- Contra Voucher (F4), Payment Voucher (F5), Receipt Voucher (F6), Journal Voucher (F7), Purchase (F9), Sales (F8), Debit Note (Ctrl + F9), Credit Note (Ctrl + F8),
- f) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,
- g) Accounting Books and Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register and Day Book.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 9) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 10) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 11) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Shivaji University, Kolhapur
B.Com. (CBCS) Part-II (Semester-IV)
Corporate Accounting Paper - II
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of profit/loss prior to incorporation.
2. Compute the value of shares as per distinct methods and differentiate between them.
3. Simulate practice of accounting for liquidation of companies.
4. Practice the store accounting through Tally ERP.

Unit -I: Profit /Loss Prior to Incorporation. (15 Periods)

Unit-II: Valuation of shares: Intrinsic value method, Market value Method (Capitalization of profit and dividend basis) Fair value. **(10 Periods)**

Unit-III: Accounting for Liquidation of companies- Process of Liquidation under Insolvency and Bankruptcy Code, Preparation of Liquidator's Final Statement of Account. **(15 Periods)**

Unit-IV: Store Accounting with Practical using Tally. (20 Periods)

Theory:

- a) Basic Concepts of Store Accounting- Importance of Material Management and Inventory Control, Objectives of Inventory Control System, Functions and Duties of Store-keeper,
- b) Key Terms- Stock items, Category of item, Item Name, Unit of Measurement- Purchase Rate per Unit, Current Stock Quantity, Current Valuation Rate, Opening Stock Quantity, Opening Valuation Rate, Purchase Returns, Sales Returns
- c) Stock Valuation Methods- Source document, Types of Source documents, Purchase Invoice, Goods Received Note, Sales Invoice, Delivery Challan
- d) Tally Reports of Store Accounting- Bill-wise List of Stock Items, Stock Statement, Material Receipts/ Purchases Register, Material Issues/ Sales Register, Material Return Report, Slow Moving Items Report, Fast Moving Items Report.

Practical:

- a) Creating Inventory Masters in Tally.ERP 9, Stock Groups- Creating Single Stock Group, Creating Multiple Stock Group, Displaying Stock Group, Altering Stock Group,
- b) Units of Measure- Simple Units, Creating Simple Units, Displaying Units of Measure, Deleting Units of Measure
- c) Stock Items- Creating Single Stock Items, Creating Multiple Stock Items, Displaying Stock Items, Altering Stock Items,
- d) Voucher Entry in Tally.ERP 9- Purchase Voucher (F9), Sales Voucher (F8), Credit Note Voucher (Ctrl + F8), Debit Note Voucher (Ctrl + F9)
- e) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,

- f) Accounting Books & Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register, Day Book, Statistics,
- g) Inventory Books & Reports- Stock Summary, Stock Item Summary, Stock Group Summary, Exception Reports- Negative Stock, Negative Summary.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 12) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 13) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 14) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 15) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 16) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 17) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 18) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 19) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 20) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 21) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 22) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Nature of Question Paper
 B.Com. Part-II
 Under CBCS
 Subject: Corporate Accounting Paper-I (Semester-III)
 Core Course
 (Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- a) Question on Theory of Unit-1 Or Question on Theory of Unit-1 5 marks
 b) Question on Problem of Unit-1 Or Question on Problem of Unit-1 5 marks

Q.No.2 Short Answer Questions:

- a) Question on Theory of Unit-2 Or Question on Theory of Unit-2 5 marks
 b) Question on Problem of Unit-2 Or Question on Problem of Unit-2 5 marks

Q.No.3 Questions:

- a) Question on Theory of Unit-3 Or Question on Theory of Unit-3 5 marks
 b) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

- a) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Nature of Question Paper
 B.Com. Part-II
 Under CBCS
 Subject: Corporate Accounting Paper-II (Semester-IV)
 Core Course
 (Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- c) Question on Theory of Unit-1 Or Question on Theory of Unit-1 5 marks
 d) Question on Problem of Unit-1 Or Question on Problem of Unit-1 5 marks

Q.No.2 Short Answer Questions:

- c) Question on Theory of Unit-2 Or Question on Theory of Unit-2 5 marks
 d) Question on Problem of Unit-2 Or Question on Problem of Unit-2 5 marks

Q.No.3 Questions:

- c) Question on Theory of Unit-3 Or Question on Theory of Unit-3 5 marks

d) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

b) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-III)
Fundamentals of Entrepreneurship- Paper-I
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To impart theoretical knowledge of Entrepreneurship
2. To develop Entrepreneurship qualities and skills
3. To acquaint students with Steps involved in the formation of Small Enterprises
4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Unit-I	Entrepreneur:- Evolution, Meaning and Definition, Functions, Qualities of successful entrepreneur, Types of Entrepreneur, Obstacles to become an Entrepreneur, Challenges before existing entrepreneur in modern era.	15 Hours
Unit-II	Entrepreneurship and Entrepreneurship Development: Concept, Definitions, Importance, Theories- Joseph Schumpeter's Theory of Innovation, Hagen's theory of Status Withdrawal, David McClelland's Need for Achievement theory, Knight's Risk Taking theory, Entrepreneurship Development- Concept and Process. Introduction, Functions and Performance of – EDI, MCED And DIC	15 Hours
Unit-III	Micro, Small and Medium Enterprises(MSME): Definition, Importance, Problems of MSME and Remedies, Government Policy and Support, Steps involved in the formation of Small Enterprises- Location, Clearances, Permits required, Formalities, Licensing and Registration Procedure.	15 Hours
Unit-IV	Recent Trends and Concepts in Entrepreneurship: Recent Trends- Start up, Stand up, Skill India, Make in India, Incubation Centre- Concept and Importance. Concepts- Sociopreneur, Edupreneur, Ecopreneur, Netpreneur, Intrapreneur(Only concept and Characteristics)	15 Hours

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-IV)
Fundamentals of Entrepreneurship- Paper-II
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To acquaint students with family business in India
2. To impart conceptual knowledge of Service and Agro Entrepreneurship
3. To aware students about Business Plan and Project Report
4. To inspire the students through successful stories of Entrepreneurs

Unit-I	Family Business: Meaning, Types, Advantages and Disadvantages of Family Business, Challenges before family business in India, Business Succession Planning, Making family business more effective.	15 Hours
Unit-II	Service and Agro Entrepreneurship: A) Service Entrepreneurship- Meaning and Concept, Role of Service sector in National Economy, Opportunities in Service sector. B) Agro Entrepreneurship- Meaning and Concept, Importance, Entrepreneurial Opportunities in Agro Sector, Challenges before Agro Entrepreneurship	15 Hours
Unit-III	Business Plan and Project Report: Meaning and Concept of Business Plan, Key elements of business plan. Meaning, Concept and classification of project. Project for Retail store, Beauty parlor, Oil Mill, Cold Storage, Eco friendly Bag production- Reasons for failure of project.	15 Hours
Unit-IV	Women Entrepreneurship and Successful Entrepreneurs Women Entrepreneur- Concept and causes of limited growth of women entrepreneurs in India. Successful Entrepreneurs- Male- Jeff Bezos(Amazon), Hanmantrao Gaikwad (BVG), Chitale Brothers (Chitale Dairy), Ramdas Mane (Mane Group of Industries) Female- Aditi Gupta (Whisper Girl), Chetana Gala-Sinha (Manadeshi Foundation), Vandana Luthra (VLCC),	15 Hours

Note – Industrial visit/ visit to EDP Institute is suggested to acquaint students about entrepreneurial knowledge.

A talk or interaction with entrepreneurial should be arranged.

B.Com.II
Semester III and IV (CBCS Pattern)
Fundamentals of Entrepreneurship Paper I & II
Nature of Question Paper

Instructions:**Total Marks: 50**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write short answers (Any two out of Three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of Three)	10 Marks

Equivalence

Sr.No.	Old Name	New Name
1	Fundamentals of Entrepreneurship Paper - I	Fundamentals of Entrepreneurship Paper - I
2	Fundamentals of Entrepreneurship Paper - II	Fundamentals of Entrepreneurship Paper - II

Reference Books:

1. Dynamics of Entrepreneurial Development and Management- by Vasant Desai
2. Udyojakata- by Prabhakar Deshmukh
3. Entrepreneurship Development in India- by C.B. Gupta and N.P. Shrinivasan
4. Entrepreneurship and Small Business Management- by Shukla M.B.
5. Entrepreneurial Development- by Dr. S.S. Khanka
6. Entrepreneurial Development- by Godron E. and Natrajan K.
7. Entrepreneurial Development- by Taneja Satish and Gupta S.L.
8. Current Trends in Entrepreneurship - by Mohan S. Elangovan R.
9. Project Preparation Appraisal, Implementation- by Prasanna Chandra
10. Formulation of a Project Report- by Vinod Gupta

Shivaji University, Kolhapur

Syllabus of B.Com

(Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM III

Money and Financial System (Paper No – 1)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Learners will be able to explain functions of money and measurement of money supply 2. Learners will understand the banking system and its functioning in India 3. Learners will understand the nature of banking business and business practices 4. Learners will understand the important recent trends in banking system 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Ability to explain monetary system in India 2. Ability to critical thinking on banking business 3. Ability to explain recent trends in Indian Banking 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	Introduction to Money 1.1 Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Blockchain Technology and Digital Currency 1.3 Approaches to the Money supply, RBI's Measures 1.4 Constituents and Factors affecting on Money Supply	13 Lectures
Unit-2:	Introduction to Banking 2.1. Meaning, Evolution and Functions of Commercial Banks 2.2. Types and features of banks - Commercial, Cooperative, Public and Private, Foreign, Payment Banks, Small Finance Banks, Local Area Banks etc 2.3. Principles of Banking Business and its importance 2.4. Process of Credit Creation and Its limitations	15 Lectures
Unit-3:	Banking Business and Practices 3.1. Meaning, Types and Features of Deposits Products of Banks 3.2. Meaning, Types and Features of Loan Products of Banks 3.3. Sources of Funds and Income for Banks 3.4. Changing Nature of Banking Business	17 Lectures
Unit-4:	New Trends and Recent Issues in Indian Banking 4.1 Micro Finance Institutions- Evolution, Functions and Importance 4.2 Types, Advantages and Disadvantages of Bank Mergers 4.3 Licensing and functioning of Payment Banks Small Finance Banks 4.4 Meaning, Causes and Remedies for NPA, Prompt Correctives Action	15 Lectures
Note: Bank visits and case studies on banking business should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin (2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015), Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi. 		

EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - I)	Money and Financial System (Paper - I)

Nature of question paper for semester III and IV (Paper No. I & II)

Attempt any five questions.

Total marks 50

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 10 |
| Q2. Broad question | 10 |
| Q3. Broad question | 10 |
| Q4. Broad question | 10 |
| Q5. Broad question | 10 |
| Q6. Broad question | 10 |
| Q7. Write short notes (any two out of three) | 10 |

Shivaji University, Kolhapur
Syllabus of B.Com
 (Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM IV

Money and Financial System (Paper No – 2)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Students will be able to use e-banking services 2. Students will be able explain working of RBI in India 3. Students will be able to provide consultancy and guidance for investment in financial markets 4. Students will be able to explain the business practices of NBFCs and AIFI 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Use of E-banking services 2. Able to provide Financial consultancy 3. Critical thinking about NBFCs and their effects 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	E-Banking Services 1.1 Meaning and features of E-Banking, Various Internet Banking Services 1.2 Credit and Debit Card : Features, importance & precautions 1.3 NEFT, RTGS, IMPS & Cheque Truncation System 1.4 Mobile Banking - Features, different Mobile Apps and Importance	17 Lectures
Unit-2:	Reserve Bank of India 2.1 Organizational Structure and Functions of RBI 2.2 Meaning and Objectives Monetary Policy 2.3 Instruments of Monetary Policy 2.4 Monetary Policy Committee; Issue of RBI's Autonomy & Section-7 of RBI Act 1934	12 Lectures
Unit-3:	Financial Markets 3.1 Structure and Importance of Financial System 3.2 Features and structure of Money Market in India, Role of RBI 3.3 Features and structure of Capital Market in India, Role of SEBI 3.4 Reforms in Indian Money Market and Capital Market	17 Lectures
Unit-4:	All India Financial Institutes and NBFCs 4.1 Administrative Structure, Functions and Role of NABARD and SIDBI 4.2 Administrative Structure, Functions and Role of NHB and EXIM Bank 4.3 Meaning, Features, Types and Growth of NBFCs 4.4 Mutual Fund - Meaning, Types and Importance	15 Lectures
Note: Visits to financial institutes and financial consultancy firms should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin(2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015),Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Gupta, L.C (1997),Stock Exchange Trading in India; Society for Capital Market Research and Development 6. Sethi Jyotsna and Bhatia Nishwan (2003),Elements of Banking and Insurance, Prentice Hall of 		

<p>India, New Delhi</p> <p>7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited</p> <p>8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.</p>
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EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - II)	Money and Financial System (Paper - II)

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus B.COM.
SEMESTER - III
MACRO ECONOMICS – PAPER- I
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

- 1 The macro variables and components of macro economics
- 2 The relevance of national income concepts and its applications in economic policy making.
- 3 Changing value of money and its impacts on economy.
- 4 The output and employment generation process through investment and consumption.

UNIT -1	Introduction to Macro Economics 1.1 Meaning, Nature and Scope 1.2 Significance of Macro Economics 1.3 Limitations of Macro Economics 1.4 Macro Economic Variables	15
UNIT -2	National Income 2.1 Meaning and concepts- GDP, GNP, NNP, Personal and Disposable income, Per capita Income, National income at current and constant prices. 2.2 Methods of computing National Income- Product, Income and Expenditure methods 2.3 Difficulties in computing National Income 2.4 Applications of National Income Data	15
UNIT -3	Value of Money 3.1 Concept of Value of Money 3.2 Quantity Theory of Money-, Transaction Approach, Cash Balance Approach 3.3 Inflation-Causes of Inflation, Inflation and interest rates, Social cost of Inflation, Remedies to control of inflation. 3.4 Index Number – Meaning, Construction of Simple and Weighted Index Numbers.	15
UNIT -4	Output and Employment 4.1 J.B. Say's Law of Market 4.2 Keynesian Theory of Employment 4.3 Consumption Function - Concept and Types, Factors influencing consumption function 4.4 Investment Function- Marginal Efficiency of Capital, Investment Multiplier	15

References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, Harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, George Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewett K.K., (2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, Tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd. London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd. London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp. London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc. Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd. New Delhi
17. Lekhi R.K. Public Finance, (2015) Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard, (2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laxminarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P.(2016), Public Finance, Jayprakash Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the paper

Title of Old Paper	Title of New Paper
Business Economics Paper III	Macro Economics Paper I

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus
B.COM.
SEMESTER - IV
MACRO ECONOMICS – PAPER- II
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

1. The trade cyclical phenomenon in the economy and they will be able to take practical decisions at their business level in future.
2. Public finance system of state and its impact on economy and citizens of the nation.
3. The trade and business practices through international trade theories and other relevant concepts.
4. The international monetary exchange system and determination of rate exchange.

UNIT -1	Trade Cycles 1.1 Meaning Features and Types 1.2 Phases of Trade Cycles 1.3 Theories of Trade Cycles – Hawtrey and Schumpeter 1.4 Control of Trade Cycles	15
UNIT -2	Public Finance 2.1 Meaning, Nature and Scope, The Principle of Maximum Social Advantage 2.2 Public Revenue- Meaning, Tax Revenue-Direct and Indirect Taxes - Merits and Demerits, Concept of Goods and Service Tax (GST), Non-Tax Revenue Sources 2.3 Public Expenditure- Causes of growth and effects 2.4 Public Debt – Forms and Effects, Deficit Financing- Objectives and limitations.	15
UNIT -3	International Trade 3.1 Concept of Trade, Internal and International Trade 3.2 Advantage and Disadvantage of International Trade, Ricardian Theory of International Trade, Terms of Trade – Meaning, Types and its influencing factors. 3.3 Balance of Payments – Causes of disequilibrium, Measures to correct disequilibrium. 3.4 Concepts of Free Trade and Protective Trade	15
UNIT 4	Rate of Exchange 4.1 Concept of Rate of Exchange 4.2 Types – Fixed, Flexible , Spot and Future rate of exchange 4.3 Purchasing Power Parity Theory	15

	4..4 Modern Theory of rate of exchange	
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References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, Georg Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewtt K.K.,(2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jaypraksh Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the papers

Title of Old Paper	Title of New Paper
Business Economics Paper IV	Macro Economics Paper II

Nature of Question Paper for paper III and IV**Total Marks: 50****Attempt any five questions out of seven**

- | | |
|--|----|
| Q.1 Write short answers (Any two out of three) | 10 |
| Q.2 Broad question | 10 |

Q.3 Broad question	10
Q.4 Broad question	10
Q.5 Broad question	10
Q.6 Broad question	10
Q.7 Write short notes (Any two out of three)	10

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)
June 2019 Onwards

Course Objectives:

- To enable the students to develop communication skills in English, both oral and written.
- To equip the students with the language skills for use in their personal, academic and professional lives.
- To develop the students essential employability skills.
- To help the students to enter the job market with confidence and the ability to work effectively.
- To help the students to learn and practice both language and soft skills.
- To encourage the active involvement of students in learning process.
- To enable the students to cultivate a broad, human and cultured outlook.

CONTENTS
Semester III (Paper C)

Module I

- A) Oral Skills
- B) Phenomenal Woman – **Maya Angelou**

Module II

- A) Conversation Skills
- B) The Childless One – **Jai Nimbkar**
- C) Those Winter Sundays – **Robert Hayden**

Module III

- A) English for Competitive Examination – I
- B) Four Minutes that get you Hired
–**Connie Brown Glaser and Barbara Steinberg Smalley**

Module IV

- A) Stormy Arrival in South Africa – **Mohandas Karamchand Gandhi**
- B) The Road Not Taken – **Robert Frost**

Semester IV (Paper D)

Module V

- A) E-Communication
- B) Breathing Spaces – **Rana Nayar**

Module VI

- A) English for Competitive Examination – II
- B) My Financial Career – **Stephen Leacock**

Module VII

- A) English for Banking and Industries
- B) Senior Payroll – **William E. Barrett**

Module VIII

- A) The Verger – **Somerset Maugham**
- B) I Am the People, the Mob – **Carl Sandburg**
- C) One Day I Wrote Her Name – **Edmund Spenser**

Pattern of Question Paper

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)

PATTERN OF QUESTION PAPER (June 2019 Onwards)

Semester III (Paper C)

Total Marks 50

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on ORAL SKILLS	Module I A	05
	B.	Question to be set on ORAL SKILLS	Module I A	04
Q.4.	A.	Question to be set on CONVERSATION SKILL	Module II A	04
	B.	Question to be set on CONVERSATION SKILL	Module II A	04
Q.5	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	05
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	04

Semester IV (Paper – D)**Total Marks 50**

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on E-COMMUNICATION	Module V A	05
	B.	Question to be set on E-COMMUNICATION	Module V A	04
Q.4.	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
Q.5.	A.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	05
	B.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	04

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – III)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-I)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Explain the scope of statistics in business, perform classification and tabulation, and represent the data by means of simple diagrams and graphs.
2. Explain and apply sampling techniques in real life.
3. Summarize data by means of measures of central tendency and dispersion.
4. Explain the merits and demerits of various measures of central tendency and dispersion.
5. Perform analysis of bivariate data using simple correlation and simple linear regression.

Unit 1: Introduction to Statistics

(15)

- 1.1 Meaning of Statistics, Scope of Statistics in business.
- 1.2 Primary and secondary data, Discrete and continuous variables, Classification and its basis, Frequency and frequency distribution, Tabulation.
- 1.3 Diagrammatic representation: pie-chart, simple bar diagram, Graphical representation: histogram, ogive curves, Numerical problems.
- 1.4 Sampling: Definitions of population, sample, sampling, and census, Principle steps in sample survey, Advantages of sampling over census, Methods of sampling: simple random sampling (with and without replacement), stratified random sampling.

Unit 2: Measures of Central Tendency

(15)

- 2.1 Concept of central tendency, Requirements of a good average.
- 2.2 Arithmetic mean (A. M.): Definition, Properties of A. M. (without proof), Combined A. M., Merits and demerits, Numerical problems.
- 2.3 Median and quartiles: Definitions, Merits and demerits of median, Numerical problems.
- 2.4 Mode: Definition, Merits and demerits, Empirical relation among mean, median, and mode, Numerical problems.

Unit 3: Measures of Dispersion

(15)

- 3.1 Concept of dispersion, Requirements of a good measure of dispersion, Absolute and relative measures of dispersion.
- 3.2 Range, Coefficient of range, Merits and demerits of range, Numerical problems.
- 3.3 Quartile deviation (Q. D.), Coefficient of Q. D., Merits and demerits of Q. D., Numerical problems.
- 3.4 Standard deviation (S. D.), Coefficient of S. D., Coefficient of variation, Variance, Merits and demerits of S. D., Numerical problems.

Unit-4: Analysis of Bivariate Data: Correlation and Regression**(15)**

- 4.1 Concept of correlation, Types of correlation.
- 4.2 Methods of studying correlation: Scatter plot, Karl Pearson's correlation coefficient (r), Interpretation of r (with special cases $r = -1, 0,$ and 1), Spearman's Rank correlation coefficient (R), Numerical problems on computation of r and R (with and without ties) for ungrouped data.
- 4.3 Concept of regression.
- 4.4 Lines of regression, regression coefficients, relation between correlation coefficients and regression coefficient, Numerical problems on ungrouped data.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – IV)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-II)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Compute unconditional and conditional probabilities and apply laws of probabilities.
2. Identify the applications of Binomial and normal distributions.
3. Measure trend and seasonal variations in time series data.
4. Compute and interpret simple and weighted index numbers.
5. Construct and apply variable and attribute control charts.

Unit 1: Probability and Probability Distributions (15)

- 1.1 Definitions of random experiment, sample space, event, equally likely events, mutually exclusive events, independent events, Classical definition of probability.
- 1.2 Definition of conditional probability, Addition and multiplication laws of probability (without proof), Numerical problems (without use of permutation and combination).
- 1.3 Binomial distribution: Probability mass function, Mean and variance (without proof), Simple numerical problems to find probability and parameters.
- 1.4 Normal distribution: Probability density function, Mean and variance (without proof), Properties of normal curve, Standard normal distribution, numerical problems to find probabilities for given area under standard normal curve.

Unit 2: Time Series Analysis (15)

- 2.1 Definition and uses of time series.
- 2.2 Components of time series.
- 2.3 Methods of measuring trend: method of semi-averages, method of moving averages, and method of least squares, Numerical problems.
- 2.4 Measurement of seasonal variations using simple average method, Numerical problems.

Unit 3: Index Numbers (15)

- 3.1 Need, meaning, and uses of index numbers, Applications of index numbers in share market, Price, quantity, and value index numbers.
- 3.2 Simple index numbers by simple aggregate method and simple average of relatives method (using A. M.), Numerical problems.
- 3.3 Weighted index numbers by Laspeyre's, Paasche's, and Fisher's formulae, Numerical problems.
- 3.4 Problems involved in construction of index numbers.

Unit 4: Statistical Quality Control**(15)**

- 4.1 Concept of statistical quality control (SQC), Advantages of SQC, Types of variability: chance cause variability and assignable cause variability.
- 4.2 Shewhart control chart and its construction.
- 4.3 Variable control charts: mean (\bar{X}) and range (R) charts, Numerical problems.
- 4.4 Attributes control charts: control chart for number of defectives (np -chart) for fixed sample size and control chart for number of defects per unit (c -chart), Numerical problems.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper VI
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To understand the process and procedure of the Income Tax Act, 1961
2. To impart theoretical knowledge of Income Tax
3. To acquaint students with post Assessment procedure and TDS provisions and procedure.

Unit – I	Income Tax Payment and fine of interest – a) Advance Tax b) Interest payable under section 234 ABC	10 Hours
Unit – II	Assessment Procedure – Inquiring before Assessment – Assessment U/S 143(1), Regular Assessment of U/S 143(2), Best Judgement Assessment, Income escaped Assessment, issue of notice where income has escaped assessment, Time Limit for notice, Time limit completion of Assessment, Re-assessment	20 Hours
Unit – III	Post Assessment Procedure – a) Refund – who can claim refund, form no 16 for refund, Time limit for claiming refund, refund on appeal interest refund b) Rectification of mistake c) Appeals and revisions – when an assessee can file appeal appellate authorities, procedure for filling appeal, filling appeal, Revision by Income Tax commissioner d) Penalties and Procedure – Procedure for impressing penalties, Waiver of penalty nature of default and panlties impossible.	20 Hours
Unit – IV	TDS provisions and Procedure – including TDS Tax collection of source provision and procedures.	10 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VIII
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of TDS, TCS, Penalties and prosecutions
2. To develop the skills of solving practical problems of TDS and TCS
3. To acquaint students with recent terms and conditions in Income Tax

Unit – I	TDS – Scheme of tax deduction at source, deduction of tax from salaries, interest other than interest on securities, winnings from horse races, from payments to contractors or sub contractors, from insurance commission, from commission or brokerage, from income by way of rent, on purchase of immovable property and on professional fees.	20 Hours
Unit – II	TCS – Scheme of tax collection at source, applicability, persons liable to collect TCS, rates of TCS and relevant provisions.	10Hours
Unit – III	PENALTIES & PROSECUTIONS – Penalties for default in brief, penalty for concealment / under-reporting of Income, procedure for imposition of penalty and time-limit for completion of penalty proceedings.	20 Hours
Unit – IV	PRACTICAL PROBLEMS ON TDS & TCS – Problems on calculation of TDS & TCS	10 Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - Income Tax
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice Income Tax Paper VI (Vocational)	Tax Procedure and Practice Income Tax Paper VI (CBCS)
2	Tax Procedure and Practice Income Tax Paper VIII (Vocational)	Tax Procedure and Practice Income Tax Paper VIII (CBCS)

Reference Books :

1. Students guide to Income Tax - Taxman
2. Direct Tax ready reckoner - Vinod Sighaniya
3. Income Tax - P.M. Herekar

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper V
Title of Paper – GST (SGST, IGST & CGST)
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of GST
2. To help students solve practical problems in GST
3. To acquaint students with the latest concepts and terms in GST.

Unit – I	Schedules under the Act(Schedule I.II and III under GST Act 2017) Levy & Collection of Tax (Scope of supply, Composite & mix supply, levy & collection)	10 Hours
Unit – II	Time & value of supply (Time of supply of goods, Time of supply of service, Value of Taxable supply schedules)	10 Hours
Unit – III	Determination of nature of Supply (Inter state Supply, Intra-state supply, Supplies in territorial water. Sec 7,8,9 of IGST Act) Sec. 10 & 11 of IGST Act Sec-10 Place of Supply of Goods other than supply of goods imported into, or exported from India. Sec. 11 – Place of Supply of Goods imported into or exported from India.	10 Hours
Unit – IV	Basic Problems – Problems to calculate SGST & CGST & Time & Value of supply.	30 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VII
Title of Paper – GST
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To make aware the students regarding new amendments made in the Indirect taxation system of India i.e. GST
2. To give practice approach and implementation of GST provisions
3. To make aware about the key aspects under GST like place of supply of goods and services
4. To enhance the knowledge of students with the practical solutions and case studies under GST.

Unit – I	Composition levy (Conditions, applicability, Composition rate of tax etc. Reverse Charge Mechanism (RCM) – Applicability, Conditions	10 Hours
Unit – II	Input Tax Credit (Eligibility & conditions for taking Input Tax credit apportionment of credit & blocked credit)	20 Hours
Unit – III	Sec 12 - Place of Supply of Goods or services or both. (Place of supply of services, where location of supplies & recipient in India. Sec 13 - Place of Supply of services where location of supplier where location of supplier or location of recipient is outside India	20 Hours
Unit – IV	Basic Problems – Time of supply, value of supply, place of supply & ITC	10Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - GST
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice GST (SGST, IGST & CGST) Paper V(Vocational)	Tax Procedure and Practice GST Paper V (CBCS)
2	Tax Procedure and Practice GST Paper VII (Vocational)	Tax Procedure and Practice Income Tax Paper VII (CBCS)

Reference Books :

1. GST made simple - Taxman
2. A birds eye view - Jain and Jha
3. Basics of GST - Taxman
4. GST guide for students - CA Vivek Agarwal

SHIVAJI UNIVERSITY, KOLHAPUR.



NAAC 'A' Grade

Faculty of Commerce and Management

Syllabus For

B. Com. Part – III (Sem V & VI) (CBCS)

(To be implemented from June 2020 onwards)

(Subject to the modifications that will be made from time to time)

Shivaji University, Kolhapur
B.Com (CBCS Pattern) Part – III (Semester-V)
Modern Management Practice- Paper-I

Core Course

Introduced From June- 2020

Credit - 4

Objectives:

1. To impart knowledge of modern management
2. To understand concepts of CRM
3. To know the concepts of emotional and social intelligence
4. To understand the concept of lean and talent management

Unit-I	<p>Contribution to Modern Management Practice</p> <ol style="list-style-type: none"> a. Concept of Modern Management b. Contribution of Vijay Govindarajan: Three Box Solution and Reverse Innovation c. Contribution of C.K. Prahalad : The Fortune at the Bottom of the Pyramid. d. Michael Porter : competitive advantage. 	15 periods
Unit-II	<p>Emotional and Social Intelligence in Management</p> <ol style="list-style-type: none"> a. Emotional Intelligence: Concept, Components, Importance of emotional intelligence in leadership, Advantages and Disadvantages of emotional intelligence, emotional intelligence skills b. Social intelligence: Concept, Importance, Advantages and Disadvantages of social intelligence, Models of emotional and social intelligence: 	15 periods
Unit-III	<p>Customer Relationship Management (CRM) and Supply Chain Management (SCM)</p> <ol style="list-style-type: none"> a. Customer Relationship Management (CRM) : Concept, Importance, Elements, Process, e-CRM b. Supply Chain Management (SCM): Concept, Importance, Components, Process, Benefits of SCM 	15 periods
Unit-IV	<p>Lean Management and Talent Management</p> <ol style="list-style-type: none"> a. Lean Management: Concept, Principles, Benefits and disadvantages, tools of lean Management, lean management best practices b. Talent Management: Concept, Importance, Process, Components, benefits 	15 periods

Shivaji University, Kolhapur

B.Com (CBCS Pattern) Part – III (Semester-VI)

Modern Management Practice- Paper-II

Core Course

Introduced From June- 2020

Credit - 4

Objectives:

1. To impart knowledge of total quality management
2. To understand the Japanese and Chinese Management Practices
3. To know the concept of Event and Performance Management
4. To understand the concept of time and stress management

Unit-I	Total Quality Management (TQM) and Quality Standards a. Total Quality Management (TQM) : Concept, Principles, Elements of TQM, Benefits and Disadvantages of TQM b. Quality Standards: Benchmarking(concept and types) Six Sigma,(concept and levels) ISO: 9000, (Importance and elements)	15 periods
Unit-II	Japanese and Chinese Management Practice a. Japanese Management: Concept, Characteristics and 8 Key Japanese Quality Management techniques b. Chinese management: Concept, Characteristics, Chinese Leadership Style, Difference between Chinese and Western Management	15 periods
Unit-III	Event and Performance Management a. Event Management: Concept, Importance, Procedure, Types of events, benefits of event Management b. Performance Management : Concept, Evolution, Need, Process of Performance Management	15 periods
Unit-IV	Time and Stress Management a. Time Management: Concept, Importance, Techniques b. Stress Management: Meaning of Stress, Causes, Effects, Techniques of stress management	15 periods

Paper I : CC-C3 : Business Regulatory Framework

Credit –I	Law of Contract- 1872	Hours
	Definition of Business Law and its sources Definition of contract, Essential element and Kinds of Contract Offer and Acceptance, Capacity of Parties, Consideration, Free Consent and Legality of objectives, Void Contracts Discharge of Contract, Remedies for breach of contract	15 Hrs
Credit-II	Labour Laws	15 Hrs
	A) Employees Provident Fund Act- 1952- Meaning and its applicability criteria, Rates of Contribution , Periodicity of Payment and Return, Mandatory Records, Consequences of Non compliances	5 Hrs
	B) Employees State Insurance Act-1948- Meaning and its applicability criteria, Rates of Contribution , Periodicity of Payment and Return, Mandatory Records, Consequences of Non compliances	5 Hrs
	C) Payment of Gratuity (Amendment)Act-2018- Meaning and its applicability criteria, Rates of Contribution , Payment calculation, Mandatory Records, Consequences of Non compliances	5 Hrs
Credit-III	Sale of Goods Act,1932 and Goods and Services Tax(GST)	15 Hrs
	A) Sale of Goods Act- Contract of Sale of goods concept and essentials, Sale and Agreement to sell, Conditions and Warranties, Performance of Contract of Sale	10 Hrs
	B) Goods and Services Tax- Basic framework of GST, Applicability criteria, General understandings of legal provisions regarding invoices, GST Returns , Consequences of Non compliances	5 Hrs
Credit- IV	Indian Partnership Act-1932 and Limited Liability Partnership Act-2008	15 Hrs
	A) Indian Partnership Act-1932- Partnership Deed meaning and general terms and conditions, Role and Responsibilities of Partners.	5 Hrs
	B) Limited Liability Partnership Act- 2008- Nature and Silent features of LLP, Incorporation of LLP, Limitations of liability of LLP and Partners, Difference between Partnership and LLP.	10 Hrs

Reference-

- 1) Business Law- Kavita Krishnamurthi
- 2) Essentials of Business and Industrial Laws- B.S. Moshal
- 3) Business Law- M.C. Kuchhal
- 4) Elements of Mercantile Law- N.D. Kapoor
- 5) Mercantile Law- Arun Kumar
- 6) Mercantile Law- S.S.Gulshan
- 7) The Principles of Mercantile Law- Avtarsingh
- 8) Commercial and Industrial Law-A.K. Sen and J.K. Mitra
- 9) Textbook on Indian Partnership Act with Limited Liability Partnership Act- by Madhusudan Saharay
- 10) GST – Law and Procedure by Anananday Mishra – Taxman

Paper II : CC-C4 : Business Regulatory Framework

Credit- I	Company Act- 2013 Meaning, Features and Types of Company, Process of Incorporation of Company, Role, Responsibilities and Powers of Directors, Auditors and Company Secretary. Rights of Share holders, Company meetings and Resolutions Winding up of Company	15 Hrs
Credit-II	Security Exchange Board of India Act-1992, Consumer Protection Act-1986 and Competition Act-2002	15 Hrs
	A) Security Exchange Board of India Act-1992(SEBI)- Role , Powers and Functions of SEBI, Listing and Trading of Securities	5 Hrs
	B) Consumer Protection Act-1986- Definitions- Consumer, Complaint, Complainant, Unfair Trade Practices, Restrictive Trade Practices, Rights of Consumer, Consumer Redressal Agencies- Composition and Jurisdiction.	5 Hrs
	C) Competition Act-2002- Objectives, Powers and duties of Competition Commission	5 Hrs
Credit-III	Business Transactions and Cyber Laws	15 Hrs
	a) E-commerce: Nature, formation, legality and recognition b) Intellectual Property Rights: Patent, Copy Right, Trademark and Industrial Design (only concepts) c) Digital Signature: Need, formation, functions, Digital Significance Certificate and Revocation of Digital Signature d) Cyber crimes and offences e) Penalties for cyber crimes	
Credit-IV	Negotiable Instrument (Amendment) Act-2015	15 Hrs
	Meaning and Features of Negotiable instrument, Kinds of Negotiable instrument, Promissory Note, Bill of Exchange and Cheque, Crossing of Cheque and Its kinds- Dishonour of Negotiable instrument and its consequences and Remedies thereon	

Reference Books:

- 1) Business Law- M.C. Kuchhal
 - 2) Business Law- KavitaKrishanmurthi
 - 3) Cyber Laws- Dr. Farooq Ahmed
 - 4) Elements of Company Law- V.S. Datey
 - 5) The Consumer Protection Act- ArshadSubzawari
 - 6) The Consumer Protection Act- C.M. Dhopare
 - 7) Cyber Laws- Krishna Kumar
 - 8) Consumer Protection Act- Niraj Kumar
 - 9) SEBI Act- Agarwal and Baby- Taxman
 - 10) Competition Act- Dr.Rattan- Bharat Publication
- Concerned Bare Act should be referred

Nature of Question Paper

Total Marks-40

Instructions – 1) All questions carry equal marks.

2) Attempt any FIVE Questions out of seven

Q.1	Short Notes (Any Two)	4 Marks Each
Q.2	Long Answers	8 Marks
Q.3	Long Answers	8 Marks
Q.4	Long Answers	8 Marks
Q.5	Long Answers	8 Marks
Q.6	Long Answers	8 Marks
Q.7	Short Answers (Any Two)	4 Marks Each

B.Com. Part-III; SEM-V - Under CBCS
Paper-I : CC-C5 : Cooperative Development

Course Outcomes:

1. To study the meaning and principles of Co-operation.
2. To study the agricultural and Non-agricultural Credit Co-operative institutions.
3. To study the Co-operative credit system
4. To Study the important cooperative organizations

Expected Skills Impartation

1. Ability to explain cooperatives principles
2. Ability to applications of cooperative principles
3. Interpretation and comparison of different cooperative organizations

Marks : 40

Total Lectures of Teaching : 60

Credits : 4

Unit-1:	Introduction to Co-operative movement in India 1.1. Meaning, definition and features of Co-operation. 1.2. Principles of Co-operation - ICA and Manchester Principles 1.3. Role of Co-operation in economic development. 1.4. Review of Committees on Cooperative Development since 1991 (Vaidhyathan Committee, Shivajirao Patil Committee and Kuraian and Alagh Committee)	15 Periods
Unit-2:	Agricultural Co-operatives in India 2.1. Co-operative Marketing- Types, functions, problems and remedies 2.2. NAFED- Objectives, Management, Functions and Progress 2.3. Co-operative Farming - Types, problems and remedies 2.4. Role of Dairy Cooperatives - National Dairy Development Board.	15 Periods
Unit-3:	Co-operative Banking & Credit Societies in India 3.1. Review of Co-operative credit movement - Three Tier and Two Tier Structure 3.2. Primary Agricultural Cooperative Societies -Functions, Problems and Remedies 3.3. DCC Banks - Administrative Structure, Progress, Problems and Remedies 3.4. State Cooperative Banks - Administrative Structure, Progress, Problems and Remedies	15 Periods
Unit-4:	Important Cooperative Organizations in India 4.1. Urban Cooperative Banks - Types, Management, Progress and Problems 4.2. Non-Agriculture Credit Cooperatives - Functions and Problems 4.3. Consumer Cooperatives - Types, Role and Problems 4.4. Sugar Co-operatives - Role, Progress, problems and remedies	15 Periods

References :

1. Dwivedi Ramesh Chandra, (2005), 'Hundred Years of Cooperative Movement in India'-Centre for Promotion of Cooperativism
2. Garg M. C. And Joshi N. N., (2009), 'Cooperative Credit And Banking –Strategies For Development', Deep And Deep Publication, New Dehli-110027
3. Hajela T.N., (1994) Cooperation: Principles, Problems and Practice, Konark Publishers, New Delhi.
4. Krishnaswamy O.R. and Kulandhiswamy V., (2000) Cooperation: Concept and Theory, Arudra Academy,
5. Kulkarni P. R. (2007) Laws of Co-operative Banking', Macmillan Publisher India Ltd. pp. 24-25 (2007)
6. Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit <http://www.mahanand.in/>
7. NAFED <http://www.nafed-india.com>
8. Nakkiran S (2006) Cooperative Management : Principles and Techniques, Deep and Deep, New Delhi, 2006
9. National Dairy Development Board- <https://www.nddb.coop/>
10. Review of Co-operative Movement in India's Agricultural Credit Department, RBI. pp. 59-60, (1955)
11. Strickland C.F., (2010) 'An Introduction To Cooperation In India' Humphery Milford Oxford University Press.
12. The Maharashtra Co-operative Quarterly, The Maharashtra Rajya Shahakar Sanghah

B.Com. Part-III; SEM-VI - Under CBCS
Paper-II : CC-C6 : Cooperative Development

Course Outcomes:

1. To study the cooperative legislations and fund management
2. To understand the institutional arrangement for cooperative education and training
3. To understand the nature, registration, legislation and audit of housing cooperatives
4. To understand the cooperative audit system and provisions

Expected Skills Impartation

1. Legal understanding and interpretation skills
2. Ability to explain legal and technical provisions about cooperatives

Marks : 40

Total Lectures of Teaching : 60

Credits : 4

Marks : 40	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	Cooperative Laws and Legislation In India 1.1. Important Provisions under Maharashtra Co-operative Societies Act, 1960 1.2. Salient Features of Multi-State Co-operative Societies Act 2002 1.3. Liquidation Process- Appointment, Rights and Duties of Liquidator 1.4. Legal Provisions regarding Assets and Fund Management of Cooperatives - (Classification of Funds, Profit, Reserve Fund, Dividend, Expenses on social Activities, Investment of Funds etc)	15 Periods
Unit-2:	Cooperative Education and Training In India 2.1. Need and Importance of Cooperative Education and Training 2.2. National Council for Cooperative Training- Organizational Structure & Functions 2.3. VAMNICOM -Objectives, Centers, Training Programmes 2.4. Career Opportunities in Cooperative Sector - GDC&A Certification	15 Periods
Unit-3:	Cooperative Housing Societies In India 3.1. Meaning, Types and Registration Process of Housing Cooperatives 3.2. Maharashtra Co-operative Housing Society Model Bye Laws 3.3. Importance and Problems of Housing Societies 3.4. Audit of Co-operative Housing Societies- Nature and Elements	15 Periods
Unit-4:	Cooperative Registrar & Audit In India 4.1. Powers and responsibilities of registrar 4.2. Cooperative Audit - Concept, Scope, Types of Audits 4.3. Internal Audit-Nature- Duties of Internal Auditor 4.4. Responsibilities and powers of cooperative auditor	15 Periods

References :

1. Hajela T.N., (1994) Cooperation: Principles, Problems and Practice, Konark Publishers, New Delhi.
2. Indian Institute of Banking And Finance, (First Pub. 2007), 'Law of Cooperative Banking', Macmillan India Ltd. New Delhi
3. Kulkarni P. R. (2007) Laws of Co-operative Banking', Macmillan Publisher India Ltd. pp. 24-25 (2007)
4. Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit <http://www.mahanand.in/>
5. Review of Co-operative Movement in India's Agricultural Credit Department, RBI. pp. 59-60, (1955)
6. Maharashtra Co-operative Societies Act, 1960
7. Maharashtra Co-operative Societies Act, 1960 by G. M.Divekar (Vol-I and II)
8. National Cooperative Development Corporation (NCDC) - <http://www.ncdc.in>
9. National Cooperative Housing Federation of India- <https://www.nchfindia.net/>
10. National Federation of State Cooperative Banks Ltd -http://nafscob.org/about_f.htm
11. National Cooperative Consumers' Federation Of India Limited- <http://nccf-india.com/>
12. National Council for Cooperative Training- <http://ncct.ac.in>
13. Dhananjayrao Gadgil Institute of Cooperative Management -<http://www.dgicmnagpur.com>

EQUIVALENCE OF THE PAPERS / COURSES

Sr	Existing title of the Paper	Revised Title of the paper
1	Co-operative Development Paper – I	Co-operative Development Paper – I
2	Co-operative Development Paper – II	Co-operative Development Paper – II

Nature of question paper for B.Com -III Co-operative Development

Semester V & VI (Paper No. I to II)

Attempt any five questions.

Total marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com Part III Semester – V (CBCS)

Paper I : CC-C7 : Business Environment

(Indian Economic Environment)

(Compulsory Paper)

Credits : 4

COURSE OUTCOMES:

- 1 Student should be able to understand the significance and position of Indian economy at the world level.
- 2 Students should study the scenario of agricultural and industrial sectors.
- 3 Student should be aware regarding Indian economy is facing some of the fundamental economic problems. They should be able to make plans and solutions to these being as a citizen.
- 4 Student should understand the correlations between economical and social problems.

Unit No.	Unit Name	Periods
1	Business Environment 1.1 Concept 1.2 Components 1.3 Importance 1.4 Business environment and sustainable development	15
2	Agricultural Development 2.1 Present status of Indian Agriculture and Agricultural crisis 2.2 Agricultural Marketing-Problems, Agricultural price policy 2.3 Food security in India 2.4 National Commission on farmers- Agricultural Renewal Action Plan	15
3	Industrial Development 3.1 Industrial policy -1991 3.2 Concepts of Micro, Small and Medium Enterprises (MSMEs) 3.3 Progress of industrial sector in globalization era 3.4 Trade union movement – Problems and measures.	15
4	Problems of Indian Economy 4.1 Features of Indian population 4.2 Unemployment and poverty – causes and remedies 4.3 Inequality of Income and wealth, Black Money - Causes and remedies 4.4 Problems of rural and urban economy	15

References –

1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3rd ed. New York Wiley
2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore
3. Yarbrough B V (2005) The World Economy: Trade and Finance, 7th Ed Thomas south western USA
4. Manab Adhikari, Global (2006) Business Management(An International economic environment), Macmillan India Ltd
5. Hill C.W. L. and Jain A. K.(2007) International Business Competing in Global market Place, McGraw Hill New Delhi
6. Graham John L, Salwan Prashant, Cateora Philip R, (2008) International Marketing 13th Ed. Tata McGraw- Hill,
7. Jeevnandam C. International Business S.Chand New Delhi 2008
8. Paul Justein International Business, 5th Ed (2011) Prentice Hall of India, Pvt Ltd new Delhi
9. Keegan Warren J. and Green Mark C. Global Marketing, 4th Ed.(2009) Prentice Hall India, Pvt Ltd
10. Bhalla V. K. and Ramu S.S.(2009) International Business Environment, Anmol Prakashan New Delhi
11. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24th Ed S.Chand New Delhi.

12. Dutt and Sundaram K P M, Indian Economy S. Chand Delhi
13. Dutt Rudder Economic Reforms in India –A Critique, S Chand , New Delhi.
14. Mishra S K and Puri V K - Indian Economy, Himalaya Publishing House
15. Namboodripad E M S, Indian Planning and Crises, National book Center New Delhi.
16. Sundaram and Black The International Business Environment Prentices New Delhi

Equivalence of the paper

Existing Title of the Paper	Revised Title of the Paper
Business Environment Paper I	Business Environment Paper I

B.Com Part III Semester - VI– (CBCS)
Paper II : CC-C8 : Business Environment
 (Indian Economic Environment)
 (Compulsory Paper)
 Credits : 4

COURSE OUTCOMES:

1. Students will understand the Indian and global economic environment.
2. Students will equip with proper knowledge of Indian economic planning.
3. Students will enable with the knowledge of the plans and strategies toward foreign capital and multinational corporations.
4. Students will get acquainted with the functions, mechanism and performance of international financial, trade and regional cooperation institutions.

Unit No.	Unit Name	Periods
1	Liberalization, Privatization and Globalization 1.1 Concepts 1.2 Implementation and impact on Indian Economy. 1.3 Composition and direction of foreign trade in the Globalization era 1.4 Balance of payments crisis	15
2	Economic Planning and Service Sector 2.1 Economic planning – Broad objectives 2.2 NITI Aayog – Structure and functions 2.3 Planning process through NITI Aayog 2.4 Service Sector – Importance and progress of service sector in Indian economy.	15
3	Foreign Capital and Multinational Corporations 3.1 Need of foreign capital in India, 3.2 Policy of Government of India. 3.3 Multinational corporations- Definition, merits and demerits. 3.4 Exchange rates and Indian Rupee	15
4	International Institutions (Objectives and performance) 4.1 IMF 4.2 IBRD 4.3 WTO 3.3 SAARC	15

References

1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3rd ed. New York Wily
2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore
3. Yabraugh B V (2005) The World Economy: Trade and Finance, 7th Ed Thomas south western USA
4. Manab Adhikari, Global (2006) Business Management(An International economic environment), Macmillan India Ltd
5. Hill C.W. L. and Jain A. K.(2007) International Business Competing in Global market Place, McGraw Hill, New Delhi
6. Graham John L, Salwan Prashant, Cateora Philip R, (2008)International Marketing 13th Ed. Tata McGraw- Hill.
7. Jeevnandam C. International Business S.Chand, New Delhi 2008
8. Paul Justein International Business, 5th Ed (2011)Prentice Hall of India, Pvt Ltd new Delhi

9. Keegan Warren J. and Green Mark C. Global Marketing, 4th Ed.(2009) Prentice Hall India, Pvt. Ltd.
10. Bhalla V. K. and Ramu S.S.(2009) International Business Environment, Anmol Prakashan, New Delhi.
11. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24th Ed S. Chand, New Delhi.
12. Dutt and Sundaram K P M, Indian Economy, S. Chand, New Delhi.
13. Dutt Ruddar, Economic Reforms in India –A Critique, S Chand , New Delhi.
- 14.Mishara S K and Puri V K - Indian Economy, Himalaya Publishing House.
15. Namboodripad E M S, Indian Planning and Crises, National Book Center, New Delhi.
- 16.Sundaram and Black The International Business Environment, Prentices, New Delhi

Equivalence of the papers

Existing Title of the Paper	Revised Title of the Paper
Business Environment Paper II	Business Environment Paper II

Nature of question paper for B.Com - III Semester V and VI (Paper No. I to II)

Attempt any five questions.

Total Marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com (CBCS) Part-III (Semester-V)
Paper – I : DSE-A1 : Advanced Accountancy
Discipline Specific Course

4 Credits

Course Outcomes:

1. Practice the preparation of financial statements of banks.
2. Demonstrate accounting for farms and hire purchase system.
3. Simulate accounting situations of insurance claim.
4. Explain the accounting process on Tally with GST.

Syllabus Content

Unit- I	Bank Final Accounts (Vertical Format Only)	20 Lectures
Unit- II	a) Farm Accounting	10 Lectures
	b) Hire purchase system-Excluding Hire purchase Trading Account	10 Lectures
Unit- III	Insurance Claim- Loss of stock and Loss of profit policy	10 Lectures
Unit- IV	GST Accounting with practical's using Tally part – I Theory Introduction to GST on Goods, Introduction, Indirect Taxation prior GST, GST Implementation in India, Why GST was introduced in India? Understanding GST Taxation System, Dual GST, Structure of GST, Determination of Tax, Registration, GSTIN Structure, Businesses Liable to Register under GST, Tax Invoice, Bill of Supply, Supplementary Invoice, Input Tax Credit Set Off, GST Returns, Payment of Tax.	10 Lectures

Practical:

- a) Getting Started with GST (GOODS) in Tally ERP 9, Basic Concepts in GST, Configuring GST in Tally. ERP 9, Company Setup, Enabling Goods & Services Tax (GST),
- b) GST Classifications, Creating Masters, Creating Purchase Ledger, Creating Sales Ledger, Creating GST Ledger, Creating Party Ledger, Creating Stock Items
- c) Entering Transactions, Creating Purchase Invoice with GST, Creating Sales Invoice with GST, Printing Sales invoice
- d) GST Reports, GST Tax Payment

Reference Books:

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, S. Chand & Company, New Delhi.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, S. Chand & Company, New Delhi.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Himalaya Publishing House, Mumbai.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, Sultan Chand and Sons; New Delhi.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. Vikas Publication House, New Delhi.

- 6) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy Vol. I & II, Kalyani Publishers, New Delhi.
- 7) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, McGraw Hill Education India (Private) Ltd., Noida.
- 8) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 9) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.

Journals:

- 1) Indian Journal of Accounting
- 2) Chartered Accountant
- 3) Management Accountant

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Advanced Accountancy Paper-I
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1		Problem on Bank Final Accounts (This problem should be on Profit & Loss Account, Balance Sheet alongwith required schedules)	16 Marks
Question 2		Attempt any two questions (out of three): (These questions will be practical problems on Unit-II & III)	16 Marks
Question 3		Write short notes (Attempt any two out of four)	08 Marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

B.Com (CBCS) Part-III (Semester-V)
Paper – II : DSE-A2 : Advanced Accountancy (Auditing)
Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the concept and types of audit
2. To identify the residential status and its implication on tax liability
3. To understand the concept of exemption from income
4. To know the computation of income from various sources as well as total income

Syllabus Content

Unit- I	Nature and Scope of Audit: Audit – Meaning and Nature, Scope of Audit, Objectives of Audit, Relationship of Audit with other disciplines, Difference between Audit and Investigation, Basic Principles Governing Audit, Statutory Audit, Internal Audit, Cost Audit, Tax Audit, Management Audit, Concept of Vouching, Verification and Valuation.	15 Lectures
Unit- II	Audit of Specific Items in Financial Statements: A) Audit of sale of Products and Services; Audit of Interest Income, Rental Income, Dividend Income, Net gain/loss on sale of Investments; Audit of Purchases, Depreciation, Interest expense, Rent, Repair to building, Repair to Machinery, Insurance, Taxes, Travelling Expenses, Miscellaneous Expenses B) Audit of Share Capital, Reserve & Surplus, Long Term Borrowings, Trade Payables (creditors), Provisions, Short Term Borrowings and Other Current Liabilities, Audit of Land, Buildings, Plant and Equipment, Furniture and Fixtures, Goodwill, Brand/Trademarks, Computer Software, Audit of Loans and Advances, Trade Receivables, Inventories, Cash and Cash Equivalents, Other Current Assets, Audit of Contingent Liabilities.	15 Lectures
Unit- III	Company Audit: Eligibility, Qualifications and Disqualifications of Auditors; Appointment of auditors; Removal of auditors; Remuneration of Auditors; Powers and duties of auditors; Branch audit; Joint audit; Reporting requirements under the Companies Act, 2013 including CARO.	15 Lectures
Unit- IV	Special Audit and Audit Report: Audit of special entities like Bank, Insurance Companies, Charitable Trust, Hotel and Hospital, Elements of Audit Report; Types of Reports – Clean, Qualified, Adverse, Disclaimer of Opinion;	15 Lectures

Reference Books:

- 1) Tandon B.N., : Pracial Auditing, S.Chand, New Delhi
- 2) Kumar, A., Sharma, R.; : Auditing Theory and Practice, Atlantic Publishers, New Delhi
- 3) Johnson S., Wiley L. : : Auditing – A Practical Approach, Wiley Publishing House
- 4) Garg Pankaj : Auditing and Assurance, Taxmann Publications, New Delhi
- 5) Bansal, Surabhi : Auditing and Assurance, Wolters Kluwel Publicattion
- 6) Sekhar G, Prasath B. : Auditing and Assurance, Taxmann, New Delhi
- 7) Dinkar Pagare :
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final for Auditing

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Advanced Accountancy Paper-II
 (Auditing)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
Question 1	Long Answer Questions A) 8 Marks B) 8 Marks		16 Marks
Question 2	Attempt Any Two (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper- III : DSE-A3 : Advanced Accountancy
 Discipline Specific Course

4 Credits

Course Outcomes:

1. Practice the preparation of financial statements of banks.
2. Demonstrate accounting for farms and hire purchase system.
3. Simulate accounting situations of insurance claim.
4. Explain the accounting process on Tally with GST.

Syllabus Content

Unit- I Elements of Cost - Material, Labour, & Overheads, 10 Lectures
 Preparation of Cost Sheet, Quotation

Unit- II Financial Statement Analysis: 20 Lectures

a) Financial Statement Analysis- Meaning, types, Limitations of financial statements, Meaning and Need of financial statement analysis and Techniques of financial statement analysis.

(b) Ratio Analysis– Meaning, Advantages and Limitations, Classification of Ratios- Profitability Ratios, Turnover Ratios, Solvency Ratios and Liquidity Ratios.

Unit- III Cash Flow Analysis: 15 Lectures

Meaning of Cash Flow Analysis, Classification of Cash flows- Cash flow from Operating Activities, Cash flow from Investing Activities and Cash flow from Financing Activities, Cash and Cash equivalents, Extra-ordinary items, Preparation of Cash Flow Statement (As per AS-3)

Unit- IV GST Accounting with practicals using Tally part - II 15 Lectures

Theory:

4. Introduction to GST on Services, Existing Registration, Supply of Goods and Services, Scope of Supply, Place of Supply, Time of Supply, Value of Supply, Mixed Supply and Composition Supply, Accounting for

Return of Goods, Sales Returns, Purchase Returns, Credit Note, Debit Note, GST on Services, GST Reports & GST Returns

Practical:

- a) Getting Started with GST in Tally ERP 9, Basic Concepts in GST, Configuring GST in Tally.ERP 9, Company Setup, Enabling Goods & Services Tax (GST), GST Classifications
- b) Creating Masters, Creating Purchase Ledger, Creating Sales Ledger, Creating GST Ledger, Creating Party Ledger, Creating Stock Items
- c) Entering Transactions, Creating Purchase Invoice with GST, Creating Sales Invoice with GST, Printing Sales invoice, Accounting for Return of Goods, Sales Returns, Purchase Returns
- d) Accounting for GST on Services
- e) GST Reports, Generating GSTR-1 Report in Tally.ERP 9, Generating GSTR-2 Report in Tally.ERP 9, GST Tax Payment, Time line for payment of GST tax, Modes of Payment, Challan Reconciliation, Exporting returns and uploading To GSTIN

Notes:

- 1) Practical problems in the university examinations will be asked on Unit-I, II & III (however, problems on Unit-II shall be asked on Ratio Analysis only).
- 2) College should make a provision of necessary computers and accounting software for commerce department to train the students in Tally with GST as prescribed in the syllabus.
- 3) A visit should be arranged for increasing awareness of students regarding Tally with GST either in any business unit, Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:

- 1) Advanced Cost Accounting - N K Prasad
- 2) Cost Accounting - Jain & Narang
- 3) Cost Accounting – Ravi M Kishore Taxman
- 4) Principles of Management Accounting - Manmohan Goyal
- 5) Management Accounting - I. M. Pandey
- 6) Cost & Management Accounting - Jain & Narang
- 7) Advanced Accountancy - R. R. Gupta
- 8) Cost and Management Accounting M N Arora Vikas Publication
- 9) Cost and Management Accounting T Thukaram Rao
- 10) Fundamentals of Management Accounting- I M Pandey
- 11) Cost and Management Accounting- Horngreen and Datar and others

Journals:

- 4) Indian Journal of Accounting
- 5) Chartered Accountant
- 6) Management Accountant

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Accountancy Paper-III
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Problem		16 Marks
Question 2	Attempt any one problem (out of two)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-III.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

B.Com (CBCS) Part-III (Semester-VI)
Paper – IV : DSE-A4 : Advanced Accountancy (Taxation)
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the basic concepts of income tax and basis of charge
2. To identify the residential status and its implication on tax liability
3. To understand the manner of computation of total income
4. To know the basic concepts about GST

Unit- I	Basic Concepts: A) Meaning of Income Tax, Basis of Charge, Rates of Tax, Concepts of Previous Year, Assessment Year, Person, Income, Assessee. B) Residential Status and Taxability - Meaning of Residential Status, Provisions for determination of Residential status and tax liability in respect of individual and HUF, Determination of Residential Status of Firms and Companies.	15 Lectures
Unit- II	Exemptions and Deductions from total income (in respect of individual only)	10 Lectures
Unit- III	Heads of Income, Computation of total income and tax liability: Income from Salary, Income from House Property, Income from Business/Profession, Income from Capital Gain, Income from Other Sources, Computation of Gross Total Income and Tax Liability in respect of Individuals only.	25 Lectures
Unit- IV	Basics of GST: Meaning and Features of GST, Benefits of GST, Need of GST, Constitutional Provisions of GST, Levy and Collection of GST, Introduction to CGST, SGST, IGST, UTGST.	10 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,

- 8) Kadkol M.B., Income Tax : Law and Practice,
- 9) Mehta : Income Tax Ready Reckoner
- 10) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final for Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Accountancy Paper-IV
 (Taxation)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
Question 1		Practical Problem (Computation of Taxable Income and Tax Liability)	16 Marks
Question 2		Practical Problems -Attempt Any Two (out of three)	16 Marks
Question 3		Write short notes (Attempt any two out of four)	08 Marks

B.Com (CBCS) Part-III (Semester-V)
Paper - I : DSE-C1 : Advanced Costing
 Discipline Specific Course

4 Credits

Course Outcomes:

- 1) To understand the basic concepts of cost accounting.
- 2) To classify the cost and apply the same for cost determination.
- 3) To understand the cost accounting procedure in respect of materials.
- 4) To know the application of cost accounting in determination of labour cost.

Syllabus Content

Unit- I	Basics of Cost Accounting: Meaning:- Concepts of Cost, Costing, Cost Accounting, Cost Accountancy; Nature, Scope, objectives and importance of Cost Accounting; Difference between Cost Accounting, Financial Accounting and Management Accounting.	10 Lectures
Unit- II	Elements of Cost: Elements of Cost- Concepts of Material Cost, Labour Cost and Overheads; Classification of Cost, Cost Centre and Cost Unit, Cost Sheet, Tender and Quotation, Preparation of Cost Sheet.	15 Lectures
Unit- III	Material Cost: Storage of Material, Objectives of Store Keeping, Fixation of Stock Levels and Economic Order Quantity; Pricing of Issue of Material – FIFO, LIFO, Simple Average Method, Weighted Average Method.	15 Lectures
Unit- IV	Labour Cost: Labour Cost- Meaning and Importance, Time Keeping and Time Booking, Methods of Remuneration and incentives, Sound Wage policy (Characteristics and Factors considered for wage determination), Time Rate System, Piece Rate system, Taylor's Differential Piece Rate and Merrick's Differential / Multiple Piece Rate system, Halsey Plan and Rowan Plan.	20 Lectures

Reference Books:

- 1) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi

- 2) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 3) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 4) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 5) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 6) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper

B.Com (CBCS) Part-III (Semester-V)

Advanced Costing Paper-I

Discipline Specific Course

(Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problems A) 8 Marks } B) 8 Marks }		16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-V) Paper - II : DSE-E2 : Advanced Costing

Discipline Specific Course

4 Credits

Course Outcome:

- 1) To identify the meaning of overheads and its classification
- 2) To understand different methods of absorption of overheads.
- 3) To find out the reasons for difference between profit as per cost and financial accounts.
- 4) To understand meaning of activity based costing and its practical application.

Syllabus Content

Unit- I	Overheads: Meaning, Classification of Overheads, Concepts of Allocation, Absorption, Apportionment and Reapportionment of overheads.	15 Lectures
Unit- II	Absorption of Overheads: Meaning, Methods of Absorption: - Production Unit Method, Percentage on Direct Material Cost, Percentage on Direct Wages, Percentage of Prime Cost, Direct Labour Hour Method, Machine Hour Rate, Apportionment and Reapportionment of Overheads.	15 Lectures
Unit- III	Reconciliation of Cost And Financial Accounts: Need for Reconciliation of Cost and Financial Accounts. Preparation of Statement of Reconciliation of Cost and Financial Accounts.	15 Lectures
Unit- IV	Activity Based Costing: Meaning, Objectives, Advantages and Limitations of Activity Based Costing, Cost Drivers, Preparation of Statement of Cost as per Activity Based Costing.	15 Lectures

Reference Books:

- 1) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 2) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 3) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 4) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 5) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 6) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Advanced Costing Paper-II
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problems C) 8 Marks } D) 8 Marks }		16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper - III : DSE-C3 : Advanced Costing
(Methods of Cost Accounting)
 Discipline Specific Course

4 Credits

Course Outcome:

- 1) To understand the concepts of job and unit costing.
- 2) To know the applications of process costing and joint product and by product accounting
- 3) To understand procedure of contract costing and its practical implementation
- 4) To identify meaning of service costing and its application.

Syllabus Content

Unit- I	Job Costing and Unit Costing: Meaning, Features, Practical Applications of Job Costing and Unit Costing, Preparation of Job Cost Sheet.	15 Lectures
Unit- II	Process Costing: Process Costing: Meaning and its Applications, Concept of Equivalent Production, Preparation of Process Accounts, Concepts of Joint Products and By Products. (Note : Problems on Process Costing excluding Equivalent Production).	15 Lectures
Unit- III	Contract Costing: Contract Costing: Meaning, Features, Accounting Procedure, Retention money, Escalation Clause, Work in Progress, Cost Plus Contract. Preparation of Contract Account.	15 Lectures
Unit- IV	Operation/ Service Costing: Service Costing : Meaning and Definition, Application of Service Costing, Determination of Service Cost in Transport Industry	15 Lectures

Reference Books:

- 1) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 2) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 3) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 4) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 5) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 6) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Costing Paper-III
 (Methods of Cost Accounting)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i) All the questions are compulsory.	Total : 40 Marks
	ii) Figures to the right indicate full marks.	
	iii) Use of calculator is allowed.	
Question 1	Practical Problems E) 8 Marks } F) 8 Marks }	16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)	16 Marks
Question 3	Write short notes (Attempt any two out of four)	08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper – IV : DSE-C4 : Advanced Costing
(Costing Techniques)
 Discipline Specific Course

4 Credits

Course Outcome:

- 1) To know the applications of marginal costing in decision making.
- 2) To understand the concept of standard costing and analysis of variances.
- 3) To know the concept and types of budgets and concept of budgetary control.
- 4) To understand prospects of cost accounting standards.

Syllabus Content

Unit- I	Marginal Costing: Meaning and Importance of Marginal Costing, CVP Analysis, Profit – Volume Ratio, Break Even Point, Margin of Safety, Interpretation of BEP Analysis.	15 Lectures
Unit- II	Standard Costing: Standard Costing : Meaning, Objectives, Features; Types of Standards, Variance Analysis – Material Cost Variance, Labour Cost Variance and Overhead Variance and Interpretation of Variance Analysis.	15 Lectures
Unit- III	Budget and Budgetary Control: Meaning, Objectives, Types of Budgets; Preparation of Cash Budget, Fixed and Flexible Budget; Budgetary Control System- Features and Components.	20 Lectures
Unit- IV	Cost Audit and Cost Accounting Standards: Cost Audit : Meaning, Legal Requirement, Objectives; Setting Process, List and Applicability of Cost Accounting Standards	10 Lectures

Reference Books:

- 7) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 8) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 9) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 10) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 11) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 12) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Costing Paper-VI
 (Costing Techniques)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problems G) 8 Marks } H) 8 Marks }		16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-V)
Paper – I : DSE-D1 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the basic concepts of income tax and basis of charge
2. To identify the residential status and its implication on tax liability
3. To understand the concept of exemption from income
4. To know the computation of income from various sources as well as total income

Syllabus Content

Unit- I	Basic Concepts: Introduction to Income Tax Law, Meaning of Previous Year, Assessment Year, Person, Income, Assessee, Basis of Charge, Rates of Tax.	10 Lectures
Unit- II	Residential Status and Taxability: Determination of Residential Status of Individual, HUF, Firm and Company; Taxable Income in respect of Resident Individual, Resident but Not Ordinarily Resident Individual, Non Resident Individual; Taxability of Resident as well as Non Resident Firms and Companies	15 Lectures
Unit- III	Income Not Forming Part of Total Income (Exemptions): Concept of Exemption, Specific Provisions of Exemption under section 10 – Profit Sharing from Partnership Firm, Agricultural Income, Leave Travel Concession, Gratuity, Leave Encashment, House Rent Allowance	15 Lectures
Unit- IV	Heads of Income: Features of Various Heads of Income – Salary, House Property, Capital Gain, Business/Profession, Other Sources, Determination of Taxable Income from Each of these Sources of Income, Computation of Total Income	10 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi

- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Taxation Paper-I
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problem A) 8 Marks B) 8 Marks		16 Marks
Question 2	Attempt Any Two Questions on theory or problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-V)
Paper – II : DSE-D2 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

- 5) To know the meaning of clubbing of income
- 6) To understand the provisions of set off and carry forward of losses
- 7) To find out the deductions available from Gross Total Income
- 8) To understand meaning the manner of computation of tax liability

Syllabus Content

Unit- I	Clubbing of Income: Meaning of Clubbing of Income, Transfer of Income without Transfer of Assets, Income Arising from Revocable Transfers, Provisions relating to Clubbing, Income arising to Spouse, Minor Child.	10 Lectures
Unit- II	Carry Forward and Set-Off of Losses: Concept of Carry Forward of Losses, Concept of Set-Off of Carried Forward Losses, Provisions relating to Set-Off and Carry Forward of Losses against various Heads of Income, Conditions for Carrying Forward of Losses.	10 Lectures
Unit- III	Deductions from Gross Total Income: Concept of Deduction, Difference between Exemption and Deduction, Deduction from Gross Total Income in respect of Payments, Specific Provisions about Deduction under Section 80 C, 80D, 80 E and 80 G.	15 Lectures
Unit- IV	Computation of Total Income and Tax Liability: Determination of Gross Total Income considering various sources of Income, Computation of Taxable Income considering deductions, Computation of Tax Liability in case of Individual, H.U.F., Firm and Company Considering rates of tax.	25 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi

- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Taxation Paper-II
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1		Practical Problem C) 8 Marks D) 8 Marks	16 Marks
Question 2		Attempt Any Two Questions on theory or problems (out of three)	16 Marks
Question 3		Write short notes (Attempt any two out of four)	08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper - III : DSE-D3 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the concepts of TDS, TCS and Advance Tax
2. To know the procedure of filing of income tax return
3. To understand procedure of assessment and various types of assessments
4. To know the powers and functions of income tax authorities

Syllabus Content

Unit- I	TDS, TCS and Advance Tax: Concepts of Advance Tax, Tax Deducted at Source and Tax Collected at Source; Provisions relating to Interest for Default in Payment of Advance Tax, TDS and TCS; Tax Deduction and Tax Collection Account Number; Filing of TDS Returns.	15 Lectures
Unit- II	Self Assessment Tax and Filing of Income Tax Return: Payment of Self Assessment Tax, Filing of Income Tax Return, Compulsory Filing of Return, Penalty for Default in Filing of Return, Return of Loss, Provisions related to Revised and Belated Return, Procedure of Online Payment of Tax and Filing of Return.	15 Lectures
Unit- III	Assessment of Tax: Assessment, Reassessment, Best Judgment Assessment, Income Escaping Assessment, Self Assessment, Scrutiny Assessment, Protective Assessment, Appeals and Revision, Search and Survey.	15 Lectures
Unit- IV	Authorities of Income Tax: Income Tax Authorities - Functions of CBDT, DGIT, Chief Commissioner of Income Tax; Powers and duties of Commissioner of Income Tax, Commissioner of Income Tax (Appeals), Additional Director (or Commissioner), Joint Director (or Commissioner), Income Tax Officer, Assistant Director (or Commissioner), Tax Recovery Officer and Inspector.	15 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi

- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhanian, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Taxation Paper-III
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problem E) 8 Marks F) 8 Marks		16 Marks
Question 2	Attempt Any Two Questions on theory or problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper- IV : DSE-D4 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the concept of GST
2. To know the procedure of registration under GST
3. To understand the important concepts related to GST
4. To understand the legal framework of GST in India

Syllabus Content

Unit- I	Basics of GST: Meaning of GST, Need for GST, Features of GST, Application of GST in India, Rates of GST, Benefits of GST, Charge or Levy of GST.	15 Lectures
Unit- II	Registration: Persons liable and not liable for registration under GST, Amendment and Cancellation of GST registration, Exemptions from GST, Goods and Services exempted from GST.	15 Lectures
Unit- III	Important Concepts under GST: Input Tax Credit : Meaning, Definition, Eligibility for taking Input Tax Credit Tax Invoice, Debit and Credit Notes : Meaning, Proforma and Amounts to be Indicated Payment of Tax and Return : Procedure of payment of GST and Filing of Returns of GST	15 Lectures
Unit- IV	Legal Framework of GST in India: Application of CGST, SGST, IGST and UTGST Acts, Provisions of Levy, Collection, Composite Scheme and Commencement of GST Regime as per various acts	15 Lectures

(Note: Problems shall be asked on Unit 3 and 4 only)

Reference Books:

- 1) Singhanian, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhanian, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper

B.Com (CBCS) Part-III (Semester-VI)
Taxation Paper-IV
Discipline Specific Course
(Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problem G) 8 Marks H) 8 Marks		16 Marks
Question 2	Attempt Any Two Questions on theory or problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

(Note: Problems shall be asked on Unit 3 and 4 only)

B.Com-III Semester – V (CBCS) Paper-I : DSE-F1 : Insurance (Life Insurance)

Objectives

- i) To acquaint the students with the basics of Life Insurance and its procedure
- ii) To familiarize the students with the insurable risk and various life insurance products

Unit I: - Introduction to Life Insurance:-

- 1.1 : Life Insurance -Evolution, Meaning, Definition, Features
- 1.2 : Human Assets, Principles of Protection and Investment in Life Insurance, Principles applicable to life insurance
- 1.3 : Socio-Economic significance of Life Insurance, Life Insurance as a social security tool
- 1.4 : Role of Life Insurance in financial planning, Life insurance needs at various Life stages

(15periods)

Unit II: - Life Insurance Contract & Conditions:-

- 2.1: Life Insurance Contract –Meaning and Nature, Conditions of valid Life Insurance Contract
- 2.2 :Procedure of taking life insurance policy, Procedure of settlement of death and maturity claims
- 2.3 :Policy conditions relating to payment of premium, grace days, surrender value, paid up policy, lapses of policy, revival of lapsed policy
- 2.4 :Policy conditions relating to nomination and assignment of policy, accident and disability benefits

(15periods)

Unit III: - Life Insurance Risk and Premium:-

- 3.1 : Meaning and definition of risk, Classification of risk : physical, occupational and

moral, insurable and non-insurable risk

3.2 : Risk to human life, Evaluation of risk, – Factors affecting longevity of a person

3.3 : Calculation of Premium, Steps in calculation of premium, calculation of net single premium for term insurance, whole life insurance and endowment insurance policy, Types of premium, Premium calculation

3.4 :Underwriting : Meaning and importance, Non-medical underwriting – Female lives underwriting – Recent Trends in underwriting (15periods)

Unit IV: - Life Insurance Products:-

4.1 : Whole Life Policy : Meaning, features, merits-demerits and types

4.2 :Endowment Policy : Meaning, features, merits-demerits and types

4.3 :Term Assurance, Annuities, Group Insurance (only features & Types)

4.4 :ULIP – Comparison of ULIP with Traditional Insurance–Riders,(15periods)

Practical : Visit the nearest office of life insurance and collect the information of various life insurance policies.

Reference Books for Paper No. I to IV

1. Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
2. Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
3. Principles of Risk Management and Insurance – Dr. Neelam C. Gulati, Excel Books, NewDelhi
4. Theory and practice of Insurance – M. Arif Khan, Taj Printing Works , Aligarh
5. RiskManagementinBankingandInsurance-S.B.Verma,Y.Uppadhyay, R.K. Shrivasaatawa, Deep and Deep Publications Pvt. Ltd
6. Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. New Delhi
7. Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
8. Insurance and Risk Management – Dr. P.K.Gupta, Himalaya Publishing House
9. Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books New Delhi
10. Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
11. General Insurance - S. Balachandran, Insurance Institute of India Mumbai 12.Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com. Part-III Semester – V
Paper-II : DSE-F2 : Insurance
(General Insurance)

Objectives

- i) To familiarize the student with the glimpses of fire insurance and motor insurance and their procedural aspects.
- ii) To expose the students to the important legal provisions with the respect to IRDAI in general and Fire and Motor insurance in particular

Unit I: - Fire Insurance:-

- 1.1: Fire Insurance : Meaning of fire and fire insurance, Nature, Physical hazards in fire insurance, Importance of fire insurance
- 1.2 : Principles of fire Insurance and conditions of fire insurance policy
- 1.3 : Concepts and difference between Co-insurance & Reinsurance- Methods of Reinsurance, Advantages of Reinsurance, Under-insurance and over-insurance
- 1.4 : Progress of fire insurance business in India after privatization (15Periods)

Unit II: - Fire Insurance Policy and Rating–

- 2.1: Procedure of taking fire insurance policy, Renewal of fire insurance policy, Settlement of claim under fire insurance
- 2.2 : Cancellation and forfeiture of fire insurance policy.
- 2.3 : Kinds of fire insurance policy
- 2.4 : Rating - Rate fixation in Fire Insurance - System, Principles - Theory of Rating – Bases of Rating - Degree of Hazards – Classification of Risk Past loss experience and law of probability. (15Periods)

Unit III:-Basics of Motor Insurance–

- 3.1 : Meaning, Need, Basic Principles of motor insurance
- 3.2 : Classification of vehicles under motor insurance, Types of motor insurance policy
- 3.3 : Procedure of taking Motor Insurance Policy, Settlement of Claim under motor insurance, No Claim Bonus
- 3.4 : Factors considered for premium rating under motor insurance, Conciliation forum, motor accident tribunal (15Periods)

Unit IV:- Documentation and Legislation –

- 4.1: Documents in Fire Insurance – Proposal Form, Survey Report, Cover Note, Policy, Endorsement, Renewal Notice, Claim Form.
- 4.2: Documents in Motor Insurance – Proposal Form, Survey Report, Cover Note, Policy, Certificate of Insurance, Registration Certificate Book, Fitness Certificate and Permit (for commercial vehicle)
- 4.3: Legislations – Important provisions relating to fire insurance in Insurance Act 1938, Important provisions relating to Motor Insurance in Motor Vehicle Act 1988.
- 4.4 : Insurance Regulatory and Development Authority of India (IRDAI) Act, 1999 : Important provisions (15Periods)

Practical :

- (i) Take survey of properties covered under fire insurance in local community.
- (ii) Collect the information of the types of motor insurance policies taken by vehicle owners in local community.

Reference Books for Paper No. I to IV

- 1) Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
- 2) Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
- 3) Principles of Risk Management and Insurance – Dr. Neelam C. Gulati, Excel Books, NewDelhi
- 4) Theory and practice of Insurance – M. Arif Khan, Taj Printing Works , Aligarh
- 5) RiskManagementinBankingandInsurance-S.B.Verma,Y.Uppadhyay, R.K. Shrivasaawa, Deep and Deep Publications Pvt. Ltd
- 6) Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. New Delhi
- 7) Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
- 8) Insurance and Risk Management – Dr. P.K.Gupta, Himalaya Publishing House
- 9) Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books New Delhi
- 10) Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
- 11) General Insurance - S. Balachandran, Insurance Institute of IndiaMumbai
- 12) Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com-III Semester – VI
Paper – III :DSE-F3 : Insurance
(Claim Management in Life Insurance)

Objectives

- i) To provide the sound understanding to the student about managing the claims under life insurance
- ii) To acquaint the students with the life insurance legalization and documents

Unit I : - Life Insurance Agent (Financial Adviser)

- 1.1 : Life Insurance Agent: Meaning, Procedure for becoming an Agent, Insurance Agency as a Profession, Qualifications & disqualification for Life Insurance Agent
 - 1.2 : Role of an Insurance Agent in distribution of insurance products, Functions of an life insurance Agent
 - 1.3: Code of conduct for life insurance agent, Remuneration of life insurance agent
 - 1.4 : Use of Internet and Intranet means by LIC agent, Benefits of Information Technology to Insurance Agent and Policy holders
- (15periods)**

Unit II: - Life Insurance : Documents and Progress:-

- 2.1 :Life Insurance documents : Meaning and Importance of LIC documents, Conditions regarding loss of life insurance policy and Indemnity bond
- 2.2 :Documents for taking out life insurance policy : Proposal form, Medical Examination Report, Agent's Confidential Report, Proof of Age, First premium receipt (Cover note), Renewal Premium Receipt Life Insurance Policy
- 2.3 :Documents for settlement of claim : Death Certificate, Police Inquest Report, Coroner's Report, Deed of Assignment, Claim for Discharge form
- 2.4 :Progress of life Insurance in India since privatization(15 Periods)

Unit III: - Claim Management in Life Insurance

- 3.1 : Claim Management: Meaning, Need, Classifications of claims : Death claim, Maturity claim, Early claims, Time- barred claims
 - 3.2 :Claim management procedure and system for different types of claim,
 - 3.3 :Calculation of claim, Claim concessions, Presumption of death, Accident and Disability benefits
 - 3.4 : Importance of investigation in claim management.
- (15periods)**

Unit IV: - Life Insurance Legislation & FDI in Life Insurance Sector :

- 4.1 : Important provisions of Life Insurance Corporation Act 1956,
 - 4.2 :Evolution of Insurance Regulatory and Development Authority (IRDA) of India Act.1999 and important provisions
 - 4.3 :Ombudsman in Life Insurance : Meaning, function and role in grievance redressal
 - 4.4 :Foreign Direct Investment in Life Insurance Sector : Advantages and disadvantages
- (15periods)**

Practical :

- (i) Interact with the life insurance agent and understand his /her role
- (ii) Visit the nearest LIC office and collect the information about settlements of claims and settlement rate

Reference Books for Paper No. I to IV

1. Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
2. Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
3. Principles of Risk Management and Insurance – Dr. Neelam C. Gulati,Excel Books, NewDelhi

4. Theory and practice of Insurance – M. Arif Khan, Taj Printing Works ,Aligarh
5. Risk Management in Banking and Insurance- S.B. Verma, Y .Uppadhyay, R.K. Shrivastawa, Deep and Deep Publications Pvt.Ltd
6. Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. NewDelhi
7. Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
8. Insurance and Risk Management – Dr. P.K.Gupta, Himalaya PublishingHouse
9. Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books NewDelhi
10. Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
11. General Insurance - S. Balachandran, Insurance Institute of IndiaMumbai
12. Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com –III Semester – VI
Paper – IV : DSE-F4 : Insurance
(Marine and Other Insurance)

Objectives

- i) To expose the students to the principles, types and conditions of Marine Insurance
- ii) To familiarize the students with various documents and legislative provisions of Marine Insurance.
- iii) To acquaint the student to various types of Miscellaneous Insurance

Unit I: - Marine Insurance :

- 1.1 : Marine Insurance : Evolution, Meaning & Definition, Classification, Principles
- 1.2 : Clauses of Marine Insurance Policy, Warranties: Implied & Expressed Warranties
- 1.3 : Types of Marine Insurance Policy
- 1.4 : Procedure for taking Marine Insurance Policy, Payment of claim periods) (15)

Unit II :- Marine Losses and Perils :

- 2.1 : Marine Losses : Total loss, Partial Loss, Particular Average Loss, General Average Loss
- 2.2 : Difference between Particular Average Loss & General Average Loss - Salvage Charges – Preparation of loss statement
- 2.3 : Marine Perils
- 2.4 : Progress of Marine Insurance business in India. (15 periods)

Unit III :- Other Insurance (Only Nature & Cover)

- 3.1 : Burglary Insurance, Engineering Insurance
- 3.2 : Crop Insurance, Cattle Insurance
- 3.3 : Sports Insurance, Catastrophe Insurance
- 3.4 : Aviation Insurance, Export Risk Insurance (15 periods)

Unit IV :- Documentation and Legislation :-

- 4.1 : Documents in Marine Insurance - Proposal Form, Survey Report, Cover Note, Policy, Endorsement, Renewal Notice, Claim Form, Bill of Lading, Letter of Subrogation, Copy of Protest.
- 4.2 : Important Provisions of Marine Insurance Act 1963
- 4.3 : Insurance Regulatory and Development Authority Act 1999
- 4.4 : Foreign Direct Investment in General Insurance Sector (15 periods)

Practical

- i) Obtain the documents used in marine insurance by visiting nearest branch office of General Insurance Corporation, analyze them and prepare the report.
- ii) Obtain the bare Act of IRDA Act 1999 and study its provisions

Reference Books for Paper No. I to IV

1. Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
2. Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
3. Principles of Risk Management and Insurance – Dr. Neelam C. Gulati,Excel Books, NewDelhi
4. Theory and practice of Insurance – M. Arif Khan, Taj Printing Works ,Aligarh
5. Risk Management in Banking and Insurance- S.B. Verma, Y .Uppadhyay, R.K. Shrivasaatawa, Deep and Deep Publications Pvt.Ltd
6. Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. NewDelhi
7. Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
8. Insurance and Risk Management – Dr. P.K.Gupta, Himalaya PublishingHouse
9. Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books NewDelhi
10. Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
11. General Insurance - S. Balachandran, Insurance Institute of IndiaMumbai
12. Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com.III
Semester V and VI (CBCS Pattern)
Insurance Paper I to IV
Nature of Question Paper

Instructions:

Total Marks: 50

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write Short Answers (Any two out of three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of three)	10 Marks

Equivalence

Sr.No.	Old Name	New Name
1	Insurance Paper - I	Insurance Paper - I
2	Insurance Paper - II	Insurance Paper - II
3	Insurance Paper - III	Insurance Paper - III
4	Insurance Paper - IV	Insurance Paper - IV

B. Com Part III
(CBCS Pattern- 2020-21)
ADVANCED MARKETING

<i>Semester</i>	<i>Paper</i>	<i>Name of Course</i>
Semester V	Paper I	Introduction to Marketing
	Paper II	Marketing Management
Semester VI	Paper III	Service Marketing
	Paper IV	Recent Trends in Marketing Management

B. Com Part III Semester V
Paper I : DSE-G1 : INTRODUCTION TO MARKETING

Course Outcomes:

- iii) *To acquaint the students with the basics and advance marketing concepts and its procedure*
- iv) *To familiarize the students with Marketing Environment and Consumer Buying Behaviour.*

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
Unit 1	<p>Introduction to Marketing: Meaning and Nature of Marketing, Evolution of Marketing Concept, Importance and Functions of Marketing, Objectives and Process of Marketing <i>Practical: Writing marketing process of any particular product</i></p>	15
Unit 2	<p>Modern Marketing: Difference between Selling and Marketing, Changing Concepts of Marketing, Features of Modern Marketing Concept, Role of Marketing in Economic Development, Relation of Marketing with other functional areas of business. Types of Marketing Organisation <i>Practical: Study of relation of marketing department with other departments of any business organisation</i></p>	15
Unit 3	<p>Marketing Environment and Marketing System: Micro and Macro Marketing Environment, Forces in Marketing, Environmental Scanning and Analysis, Mapping the Marketing Environment, Marketing System <i>Practical: Scanning and Analysis of Marketing Environment of any nearest business organisation.</i></p>	15
Unit 4	<p>Consumer Behaviour: Concept of Consumer Behaviour, Need for understanding Consumer Behaviour, Consumer Decision Behaviour, Factors influencing Consumer Buying Behaviour, Buying Motives of Consumers, Consumer Buying Decision Process <i>Practical: Observing and reporting consumer behaviour at any departmental store or vegetable market or weekly bazaar.</i></p>	15

B. Com Part III Semester V
Paper II :DSE-G2 : MARKETING MANAGEMENT

Course Outcomes:

- iii) To familiarize the student with conceptual Marketing Management, its functions and role of Marketing Manager
- iv) To expose the students to the understand the Market Segmentation and Marketing Mix

Unit	Course Contents	Hours
Unit 1	<p>Marketing Management Meaning and Nature of Marketing Management, Functions of Marketing Management, Role of Marketing Manager, Qualities of Marketing Manager <i>Practical: Draft a report after discussion with marketing manager of any nearest company.</i></p>	15
Unit 2	<p>Marketing Planning: Meaning, Significance and Process of Marketing Planning, Structure of Marketing Plan, Strategic Marketing Planning – Meaning and Process, Competitive Marketing Strategies <i>Practical: Preparation of marketing plan for any product</i></p>	15
Unit 3	<p>Market Segmentation and Marketing Mix Concept of Market Segmentation, Requirements of Effective Segmentation, Benefits of Market Segmentation, Methods of Marketing Segmentation, Patterns of Segmentation. Marketing Mix: Meaning, Importance and Elements of Marketing Mix, Determining the Marketing Mix, Factors affecting the Marketing Mix <i>Practical: Preparation of marketing mix of any business organisation producing different products.</i></p>	15
Unit 4	<p>Management of Marketing Mix: a) Product Mix: Concept of Product, Product Planning – Significance and factors affecting the Product Planning, b) Price Mix: Significance of Price in Marketing, Objectives of Pricing, Factors affecting Price, Kinds of Pricing Decisions c) Promotion Mix: Meaning, Objectives and Methods of Promotion d) Place (Distribution) Mix: Meaning and Importance of Distribution Channels, Distribution Policies and Strategies <i>Practical: Visit to nearest 5 shops for collection of information about any of the above four factors.</i></p>	15

B. Com Part III Semester VI
Paper III : DSE-G3 : SERVICE MARKETING

Course Outcomes:

1. To provide the sound understanding to the student about of various sectors of service marketing.
2. To acquaint the students with the Service marketing strategy and Supply Chain Management:

Unit	Course Contents	Hours
Unit 1	<p>Marketing of Service: Introduction, definition, characteristics of services (Intangibility, Inseparability, Heterogeneity, Perishability). Importance of services, distinction between services and goods, Marketing Mix in Service Marketing- Product price, place, Promoting, Service encounters service, personnel issues, emotions and service situations, service profit chain, service recovery and empowerment. Practical- Study and prepare chart of various service marketing sectors and share it in the class.</p>	15
Unit 2	<p>Services Marketing Strategy: Overview of Service Marketing Strategy – Concept and Objectives. Strategic Role of Service Marketing. Formulating and implementing Service marketing strategy. Services Strategies- Strategies for Market Leaders, challengers, followers and niche marketers. Practical- Visit different service organizations and prepare innovative strategies for promoting service marketing.</p>	15
Unit 3	<p>Logistics & Supply Chain Management: Definition and scope of logistics, key logistics activities, market logistics decision, emerging concepts in logistics. Concept of supply chain management (SCM), need for SCM, advances in SCM. Distribution: 6 C's of distribution. Selection and appointing distributors. Practical- Study the logistic and supply chain management of the company's dealer working for. Prepare report and share in the class.</p>	15
Unit 4	<p>Marketing Service Sectors: Concept, Characteristics and strategies for different services- Banking, Insurance, Hotel, transport, tourism and consultancy services Service Quality- Customer Expectations and Perceptions Practical- Prepare a marketing report by visiting service organization situated to your local area.</p>	15

B. Com Part III Semester VI

Paper IV :DSE-G4 : RECENT TRENDS IN MARKETING MANAGEMENT

Course Outcomes:

- iv) To provide the students regarding conceptual information on recent trends in marketing management
- v) To acquaint the student with concept of MIS, CRM and Green Marketing
- vi) To familiarize the students with Retail marketing, Agricultural marketing and International marketing.

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
Unit 1	<p>Marketing Information System (MIS) and Green Marketing: Marketing Information System-Meaning, definition, Characteristics, scope & procedure MIS. Requirement of Good MIS, Importance of MIS</p> <p>Green Marketing- Meaning and importance issues involved in green marketing- social responsibility, pressure of government, competitive pressure cost of profit. Problems of green marketing. Green marketing strategies.</p> <p>Practical- Visit to nearest corporate /super market and write the MIS and Green Marketing structure by observing the same.</p>	15
Unit 2	<p>Customer Relationship Management & Retail Marketing: Customer Relationship Management (CRM)-concept, CRM process, measuring CRM, CRM framework, Tangible Components of CRM, CRM in services, CRM in product management, Zero customer defection, customer loyalty, and customer loyalty development strategies.</p> <p>Retail Marketing: Introduction to retail, Factors behind the change of Indian Retailing industry- Economic growth, Classification of retailers: Store and Non-store based retailers, Organised and Unorganised Retailing, business models in retail. Careers in Retailing: Employment opportunities, ownership opportunity.</p> <p>Practical- Visit Big Bazar/ Departmental store and prepare a report on CRM and retail marketing for ascertaining the career opportunity in it.</p>	15
Unit 3	<p>Agricultural Marketing: Meaning and scope of agricultural marketing-Market structure, factors influencing marketable surplus. Estimation of marketable and marketed surplus. New trends in agricultural marketing: APEDA, NAFED- Characteristics of a good agricultural marketing system- Promotion of agricultural products.</p> <p>Practical- Study the nearest APMC functions and prepare report to share in the class.</p>	15
Unit 4	<p>International Marketing: Concept of International Marketing and its Environment, Entry Strategies, International organization, Export</p>	

	<p>procedure & documents, Global Strategies, targeting and Positioning, International Marketing mix- Product Design Decisions, Geographic expansion strategic alternatives, New product in Global Market, Global Pricing Strategies, Channel Objectives and constraints, Channel Structure, Advertising decisions in International marketing.</p> <p>Practical- Study the concepts of international marketing and understand the export procedure & documents.</p>	15
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Reference Books:

1. *The Essence of Marketing- Majaro, Simon. Perentice Hall, New Delhi*
2. *Sales Management: Decision, Strategies and Cases- R. R. Still , E.W. Cundiff , N.A.P. Govani, Pearson Education*
3. *Sales and Distribution Management – K.K. Havaldar, V.M. Cavale, Tata McGraw Hill Company*
4. *Professional Sales Management -Anderson, Hair and Bush, McGraw Hill Company*
5. *Sales Management – Rustom Davar*
6. *Marketing Management- Kotler, Keller, Koshy, Jha, Prentice Hall.*
7. *Marketing Management - Ramaswamy, Namakumari, McGraw Hill Education*
8. *Consumer Behaviour – Schiffman and Kanuk , Pearson Publication*
9. *Marketing Management- Pilai, Bhagavati and Kala- S. Chand & Co. Ltd New Delhi*
10. *Consumer Behaviour – David Loudon and Albert Della Bitta., Tata McGraw-Hill.*
11. *Marketing Management- William Stanton.*
12. *Marketing Management- Philip Kotlar.*
13. *Marketing Management – a south Asian perspective: Kotler Phillip, Keller Kevin Lane, Koshy Abraham and Jha Mithileshwar, Pearson.*
14. *Marketing Management – Ramswamy V. S., Namakumari S., Macmillan Publishers India Ltd.*
15. *Marketing Management – Rajan Saxena, Tata McGraw Hill*
16. *Marketing Management: Text and Cases – Tapan Panda, Excel Books*
17. *Marketing – Etzel, Walker B., Stanton W., Pandit A., Tata McGraw Hill.*
18. *Marketing Management - Karunakarn K — Himalaya Publication, New Delhi.*

B.Com. Part-III; SEM-V (CBCS)**Paper-I : DSE-H1 : Advanced Banking (Banking Laws in India)**

Credits : 4

Course Outcomes:

1. Learners will be able to explain Regulatory Framework for Banking in India
2. Learners will understand the important laws relating banking sector
3. Learners will apply the knowledge of legal provisions for banking business practices
4. Learners will understand different provisions under cyber Laws

Expected Skills Impartation

4. Ability to apply legal provisions in banking business
5. Ability to understand the legal applications in banking sector
6. Ability to conduct proper banking activities as per legal provisions

Unit No.	Unit Name	Periods
1	Banking Laws 1.1. Need and Importance of Banking Laws 1.2. Banking Regulation Act 1949 1.3. New Bank Licensing Policy, 2013 1.4. Provisions for opening and closing of bank branches in India,	15
2	Banking Laws relating to Cooperative Banks 2.1. Co-operative Societies Act, 1912 2.2. Maharashtra Co-operative Societies Act, 1960 2.3. Multi State Co-operative Societies Act,2002 2.4. Employees Cooperative Credit Societies- Model Bye-laws in Maharashtra	15
3	The Negotiable Instrument Act, 1881 and Amendments 3.1. Meaning, Types, Features and Parties of Bill of Exchange 3.2. Meaning, Features and Parties of Promissory Note 3.3. Meaning, Types, Features and Parties of Cheque 3.4. Protection to a Paying Banker and Collecting Banker	15
4	Other Laws Relating to Banking 4.1. Important Provisions under Indian Contract Act, 1872 4.2. Garnishee Order-Meaning, Steps and Execution of Garnishee Order 4.3. Mortgage of Immovable Properties and Its Types 4.4. Banking Ombudsman Scheme 2006	15

References :

1. Arora and Kalra (1999), "All India Banking Law Digest, (1995-1999), Law House Delhi
2. Employees Cooperative Credit Societies - <https://sahakarayukta.maharashtra.gov.in>
3. ICSI (2015) Banking Law And Practice, <https://www.icsi.edu>
4. IIBF(2007), "Laws of Co-operative Banking", MacMillan India Ltd.,
5. M.L. Tannan, (2008) Banking Law and Practice in India, India Law House, New Delhi
6. M.L.Tannan, C.R. Datta & S.K. Kataria (2011) Banking Law and Practice, Wadhwa & Company
7. Maharashtra Co-operative Societies Act, 1960 <https://sahakarayukta.maharashtra.gov.in>

8. Multi State Co-operative Societies Act,2002 <https://mscs.dac.gov.in/Guidelines/GuidelineAct2002.pdf>
9. RBI (2019) Rationalisation of Branch Authorisation Policy- Revision of Guidelines <https://rbi.org.in/scripts/NotificationUser.aspx/Mode=0&Id=11570>
10. Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, New York, (2011)
11. Tannan (2001), “Banking Law & Practice in India” 20/e (Stud. ed), Law House Delhi

B.Com. Part-III; SEM-V (CBCS)

Paper-II : DSE-H2 : Advanced Banking (Retail and Corporate Banking)

Credits : 4

Course Outcomes:

1. Learners will be able to explain Retail and Corporate Banking systems
2. Learners will understand the Retail and Corporate Banking Practices
3. Learners will apply the knowledge in banking business

Expected Skills Impartation

1. Ability to differentiate Retail and Corporate Banking
2. Ability to conduct Retail Banking business
3. Ability to conduct Corporate Banking business

Unit No.	Unit Name	Periods
1	Introduction to Retail Banking 1.1. History, definition and concept of Retail Banking and Corporate Banking 1.2. Difference between Retail banking and Corporate banking 1.3. Importance of Retail banking to Indian Economy 1.4. Changing scenario of Retail Banking in India	15
2	Retail Banking Products 2.1. Home Loan - Types, Margin and Process of disbursement 2.2. Vehicle Loan - Types, Margin and Process of disbursement 2.3. Gold Loan - Nature and Process of disbursement 2.4. Educational - Nature and Process of disbursement	15
3	Corporate Banking 3.1. Need and Importance of Corporate Banking 3.2. Factoring and Forfeiting services 3.3. Infrastructure Finance Companies in India 3.4. Nature and Importance of Import-Export Finance.	15
4	Investment Banking 4.1. Meaning, Evolution and Scope of Investment Banking. 4.2. Meaning and Functions of Merchant Banking 4.3. Meaning and Nature of Venture Capital 4.4. Meaning and Importance of Loan Syndications.	15

References :

1. Indian Institute of Banking and finance (IIBF) (2015) Banking Products and Services, M/s Taxman

Publications Pvt. Ltd

2. Leichtfuss, Reinhold (2003) Achieving Excellence in Retail Banking, John Wiley and sons.
3. Indian Institute of Banking and finance IIBF (2010) International Banking, M/s Macmillan India Limited,
4. Mathav S B. (2013) Financial Management Mac-Millan Publications.
5. Yadhav S. S. (2014) Foreign Exchange Markets (Latest Edition) Mac-Millan Publications.
6. Indian Institute of Banking & finance (2018) Corporate Banking. Mac-Millan Publications.
7. Indian Institute of Banking and finance IIBF (2016)– International Corporate Finance. Mac-Millan Publications.
8. Pratap Giri S. (2017). Investment Banking: Concepts, Analyses and Cases, McGraw-Hill Education.
9. Subramanyam. (2017). Investment Banking: Concepts, Analyses and Cases, McGraw-Hill Education.
10. Ramamurthy Natarajan (2016). Corporate Banking: A Guide Book for Novice, Create Space Independent Publishing Platform.
11. Vikas Srivastava (2017) Project and Infrastructure Finance: Corporate Banking Perspective, Oxford University Press.

B.Com. Part-III; SEM-VI (CBCS)

Paper-IV : DSE-H4 : Advanced Banking (Financial Markets and Services)

Credits : 4

Course Outcomes:

1. Learners will be able to understand the nature and structure of Financial Market in India
2. Learners will understand business practices in money market and capital market
3. Learners will understand functioning of different Intermediaries in Financial Markets

Expected Skills Impartation

1. Ability to understand the procedure of security trading
2. Ability to apply knowledge for security trading
3. Ability to conduct security trading business

Unit No.	Unit Name	Periods
1	Introduction to Financial Markets in India 1.1. Structure of Financial System in India 1.2. Meaning and Role of Financial Markets in Economics Development 1.3. Structure of Capital Market - Primary and Secondary Capital Market 1.4. Instruments used in Indian Capital Market	15
2	Money Market and Capital Market 2.1. Meaning, Structure and Features of Money Market in India 2.2. Meaning, Structure and Features of Capital Market in India 2.3. Important Intermediaries - Banks, NBFCs and Other 2.4. Financial Instruments of Capital Market in India	15
3	Capital Market Operations 3.1 IPO - Meaning, Nature and Grading of IPO 3.2 Pricing of IPO - Fixed Price Issue and Book Building	15

	3.3 BSE and NSE - History, Management and Indices - Listing of Securities 3.4 Market Orders - Types of Orders for Selling and Buying of Stocks	
4	Intermediaries in Financial Markets 4.1. Role of Depository Organization- CDSL and NSDL 4.2. Indian Clearing Corporation Limited (ICCL) 4.3. Credit Rating Agencies- Functions, Institutes and their Rating Symbols 4.4. Programmes and Certifications of BSE Institute Ltd and NSE Academy	15

References :

1. Bhole I.M. (2009). Financial Institutions and Market, 5th edition, 2nd reprint in 2009 Tata McGraw Hill.
2. Benson Kunjukunju Et Al. (2012). Financial Markets and Financial Services in India, New Century Publication, New Delhi.
3. Preeti Singh (2016). Investment Management, Himalaya Publishing House Pvt. Ltd.,
4. Pawan Jhabak (2016). Securities Analysis and Portfolio Management, Himalaya Publishing House Pvt. Ltd.,
5. Avadhani V.A. (2016). Security Analysis & Investment Management, Himalaya Publishing House Pvt. Ltd.,
6. Avadhani V.A. (2016). Securities Analysis and Portfolio Management, Himalaya Publishing House Pvt. Ltd.,
7. Braam van den Berg (2015). Understanding Financial Markets & Instruments Academy of Financial Market, <https://eagletraders.com/books/afm/afm4.php>
8. NSE (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange Of India Limited
9. Michael K. (2002). Credit Rating Methodology, <http://www.psnacet.edu.in/courses/MBA/Financial%20services/17.pdf>
10. Issue Management, <http://www.psnacet.edu.in/courses/MBA/Financial%20services/13.pdf>
11. ICCL <https://www.icclindia.com>
12. BSE Institute Ltd <http://www.bsebti.com/>
13. NSE Academy - https://www.nseindia.com/education/content/about_ncfm.htm

B.Com. Part-III; SEM-VI (CBCS)**Paper-III : DSE-H3 : Advanced Banking (Bank Management Practices)**

Credits : 4

Course Outcomes:

1. Learners will be able to understand the nature and structure of Financial Market in India
2. Learners will understand business practices in money market and capital market
3. Learners will understand functioning of different Intermediaries in Financial Markets

Expected Skills Impartation

1. Ability to understand the procedure of security trading
2. Ability to apply knowledge for security trading
3. Ability to conduct security trading business

Unit No.	Unit Name	Periods
1	Administrative Structure of Head Office 1.1. Importance of Head Office of the Bank 1.2. Administrative Structure of Head Office 1.3. Departments in Head Office and Its Functions 1.4. Duties and Responsibilities of CEO /MD	15
2	Regional / Zonal Offices of the Bank 2.1. Importance of Regional / Zonal Offices of the Bank 2.2. Administrative Structure of Regional/ Zonal Offices 2.3. Functions and Role of Regional / Zonal Offices 2.4. Duties and Responsibilities of Regional/ Zonal Manager	15
3	Bank Branch Management 3.1. Structure of Branch Office - Small, Medium and Large Bank Branch 3.2. Duties and Responsibilities of Officer Incharge of Deposit Section 3.3. Duties and Responsibilities of Loan and Recovery Officer 3.4. Duties and Responsibilities of Cashier & Role of Branch Manager	15
4	Banking Business Practices 4.1. Principles of Banking Business and Its Importance 4.2. Investment Policy of the Bank- SLR and Non-SLR Investment 4.3. Nature and Importance of Internal and Statutory Audit of the Banks 4.4. Nature and Importance of Information and System Audit of the Banks	15

References :

1. George H. Hempel, Donald G. Simonson (2018). Bank Management: Text and Cases, Wiley, 2020 ISBN 0471410918
2. IIBF (2005). General Bank Management : (For Caiib Examinations), Indian Institute of Banking and Finance, Macmillan, 2005
3. Kanhaiya Singh (2013). Commercial Bank Management, Tata McGraw-Hill Education.
4. Peter S. Rose, Sylvia C. Hudgins (2008). Bank Management and Financial Services, McGraw-Hill Education.
5. Timothy W. Koch, S. Scott MacDonald (2014). Bank Management, Cengage Learning.
6. Timothy W. Koch, Steven Scott MacDonald, Vic Edwards, Randall E. Duran (2014). Bank Management: A Decision-Making Perspective, CENGAGE Learning Asia.
7. V.S.P. Rao (1999). Bank Management, Discovery Publishing House, 1999 ISBN 8171415105
8. Guidance Note on Audit of Banks (2018 Edition)- <https://www.puneicai.org/wp-content/uploads/Guidance->

Note-on-Audit-of-Banks-2018-Edition.pdf

9. Chitale MM (2018) Bank Audit - Bombay Chartered Accountants' Society-

<https://www.bcasonline.org/ContentType/3.%20MChitale.pdf>

10. RBI (2018) Checklists for Computer Audit, <https://rbidocs.rbi.org.in/rdocs/PublicationReport/Pdfs/33400.pdf>

11. Shiva Chaudhari (2017) A Guide to Risk Based Internal Audit System in Banks, Notion Press.

EQUIVALENCE OF THE PAPERS / COURSES

Sr.	Existing title of the Paper	Revised Title of the paper
1	Advanced Banking Paper – I	Advanced Banking P-I (Banking Laws in India)
2	Advanced Banking Paper – II	Advanced Banking P-II (Retail and Corporate Banking)
3	Advanced Banking Paper P-III	Advanced Banking P-III (Bank Management Practices)
4	Advanced Banking Paper P-IV	Advanced Banking P-IV (Financial Markets and Services)

Nature of question paper for B.Com -III Advanced Banking **Semester V & VI (Paper No. I to IV)**

Attempt any five questions.

Total marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com. Part-III Semester – V
Paper – I : DSE-I-1 : Rural Economics and Co-operation
(Optional Paper)

Course Outcomes:

1. Learners will be able to understand Rural Economy in India.
2. Learners will understand the correlation between Agriculture and Rural Development.
3. Learners will understand Agricultural productivity in India.
4. Learners will understand Role of Co-operation in Rural Development.

Unit I: - Rural Economy of India (15 Periods)

- 1.1 Rural Economy: Concept, nature and features
- 1.2 Importance of Rural Economy
- 1.3 Indicators of Rural Development
- 1.4 Problems of Rural Economy

Unit II:- Agriculture Sector and Rural Development (15 Periods)

- 2.1 Agriculture and Economic Growth
- 2.2 Peculiar Features of Indian Agriculture
- 2.3 Importance of Agriculture in Rural Development
- 2.4 Risk and Uncertainty in Indian Agriculture

Unit III: - Agricultural Productivity in India (15 Periods)

- 3.1 Agricultural Productivity: Meaning, types and determinants
- 3.2 Indian Agricultural Productivity
- 3.3 Causes of Low Agricultural Productivity
- 3.4 Measures to improve the Agricultural Productivity

Unit IV: - Introduction to Co-operation (15 Periods)

- 4.1 Co-operation: Meaning, definition and features
- 4.2 Principles of Co-operation (Manchester-1995)
- 4.3 Role of Co-operation in Rural Development
- 4.4 Issues in Cooperative Movement

References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

B.COM. Part - III Semester - V
(Optional Paper)
Paper – II : DSE-I-2 : Rural Economics and Co-operation

Course Outcomes:-

Student will be able to explain –

1. Awareness among the students regarding Rural Industrialization in India.
2. Agro based industries and small scale industries in India.
3. Non-credit co-operation and Rural Indebtedness in India.

Unit I - Rural Industrialization in India (15 Periods)

- 1.1 Need and concept of Rural Industrialization
- 1.2 Importance and problems of Agro-based Industries
- 1.3 Sugar Industry: Importance and problems
- 1.4 Dairy Industry: Importance and problems

Unit II- Cottage and Small-Scale Industries in India (15 Periods)

- 2.1 Meaning, features and difference between cottage and small-scale Industries
- 2.2 Role of Cottage and Small-Scale Industries.
- 2.3 Problems of cottage and Small-Scale Industries.
- 2.4 Government policy towards cottage and Small-Scale Industries

Unit III - Rural Indebtedness in India (15 Periods)

- 3.1 Meaning and nature of Rural Indebtedness.
- 3.2 Extent of rural indebtedness
- 3.3 Causes and effects of rural Indebtedness
- 3.4 Government measures to reduce rural indebtedness

Unit IV - Non-Credit Co-operatives in India (15 Periods)

- 4.1 Industrial Co-operatives: Types, functions and problems
- 4.2 Labour Co-operatives: Meaning, functions and problems
- 4.3 Consumers Co-operative: Types, functions and problems
- 4.4 Housing Co-operatives: Types, functions and problems

References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

B.Com. Part- III Semester – VI
Paper – III : DSE-I 3 : Rural Economics and Co-operation
(Optional Paper)

Course Outcomes:-

After completion of this course, the student will be able to-

1. Explain the rural resources in India.
2. Identify the problem of rural unemployment.
3. Understand the rural finance and agricultural co-operatives in India.

Unit I - Rural Resources in India (15 Periods)

- 1.1 Livestock: Concept, present status, importance and problems.
- 1.2 Poultry: Present status, importance and problems.
- 1.3 Fishery: Sources, present status, problems.
- 1.4 Forest Resources and forestry: Features and importance, social forestry.

Unit II - Rural unemployment in India (15 Periods)

- 2.1 Rural unemployment: meaning and nature
- 2.2 Types of rural unemployment
- 2.3 Causes of rural unemployment
- 2.4 Government programmes to reduce rural unemployment

Unit III - Rural Finance in India (15 Periods)

- 3.1 Need and sources of rural finance
- 3.2 Nationalized commercial banks
- 3.3 Regional Rural Banks
- 3.4 National Bank for Agriculture and Rural Development (NABARD)

Unit IV- Agricultural Co-operatives in India (15 Periods)

- 4.1 Co-operative farming: Types, problems and remedies
- 4.2 Co-operative Processing: Problems and remedies
- 4.3 Co-operative Marketing: Objectives, functions and problems
- 4.4 National Agricultural Co-operative Marketing Federation (NAFED): Functions and problems.

References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

B.Com. Part-III Semester – VI
Paper – IV : DSE- I 4 : Rural Economics and Co-operation
(Optional Paper)

Course Outcomes:-

After completion of this course, the student will be able to-

1. Understand rural infrastructure in India.
2. Explain rural poverty, food problem and food security in India.
3. Understand co-operative financial institutions in India.

Unit I - Rural Infrastructure in India (15 Periods)

- 1.1 Importance of infrastructure in rural development
- 1.2 Rural Electrification: Progress and problems
- 1.3 Irrigation facilities: Types, sources, progress and problems.
- 1.4 Transportation and Communication: Types, importance and problems.

Unit II - Rural Poverty in India (15 Periods)

- 2.1 Concept and types of rural poverty
- 2.2 Incidence of rural poverty
- 2.3 Causes of rural poverty
- 2.4 Poverty Alleviation Programmes

Unit III - Food Problem and Food Security in India (15 Periods)

- 3.1 Food problem: Different aspects of food problem.
- 3.2 Food Security: Meaning, definition and nature
- 3.3 Factors in Food Security
- 3.4 Remedies of Food Security

Unit IV - Co-operative Finance in India (15 Periods)

- 4.1 Meaning, Structure and Importance of Co-operative Finance.
- 4.2 Primary Agriculture Co-operative Credit Society: Functions and problems
- 4.3 District Central Co-operative Banks: Functions and problems
- 4.4 State Co-operative Banks: Functions and problems

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References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

EQUIVALENCE OF THE PAPERS / COURSES

Sr.	Existing title of the Paper	Revised Title of the paper
1	Rural Eco. & Co-operation (Optional) Paper -I	Rural Eco. & Co-operation (Optional) Paper -I
2	Rural Eco. & Co-operation (Optional) Paper- II	Rural Eco. & Co-operation (Optional) Paper- II
3	Rural Eco. & Co-operation (Optional) Paper -III	Rural Eco. & Co-operation (Optional) Paper -III
4	Rural Eco. & Co-operation (Optional) Paper -IV	Rural Eco. & Co-operation (Optional) Paper -IV

Nature of Question Paper for B.Com. - III
Subject- Rural Economics and Co-operation

Semester V and VI (Paper No. I to IV)

Attempt any five questions

Total Marks 40

Q1. Write short answers (any two out of three)	08
Q2. Broad question	08
Q3. Broad question	08
Q4. Broad question	08
Q5. Broad question	08
Q6. Broad question	08
Q7. Write short notes (any two out of three)	08

B.Com. Part-III- SEM-V (CBCS)
Paper I : DSE-J 1 : Advanced Statistics
(Mathematical Methods)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

1. Evaluate a determinant.
2. Obtain the inverse of a matrix using different methods.
3. Explain the use of permutation and combination.
4. Explain the Binomial theorem and its expansion.

Unit 1 Determinant:

Definition, evaluation of determinant of order 2 and 3, properties of determinant (without proof), Examples based on evaluation and properties, Cramer's rule, solution to given system of linear equations of two and three variables by Cremer's rule. [15 Periods]

Unit 2 Matrix Algebra:

Definition of matrix, Types of matrices, Addition, subtraction and product of two or more matrices, examples on addition, subtraction and product, Inverse of a matrix by adjoint method, Inverse of a matrix by row transformation, examples based on inverse.[15 Periods]

Unit 3 Permutation and Combination:

Concept of permutation, combination, notation, definition, Relation between them, examples based on nC_r and nP_r . [15 Periods]

Unit 4 Binomial Theorem:

Concept and definition of Binomial Theorem, Expansion of $(a + b)^n$, $(a - b)^n$, finding of middle term, r^{th} term and coefficient of r^{th} term in the expansion, Numerical problems.

[15 Periods]

Reference Books

- i) Business Statistics by S.S. Desai
- ii) Business Statistics by G.V. Kumbhojkar
- iii) Introduction to Mathematical Statistics by S.C. Gupta.
- iv) Mathematics & Statistics by Sureanjan Shah
- v) Text book of matrices by Shanti Narayan
- vi) Elements of Statistics, by D. N. Elhance
- vii) Fundamentals of Applied Statistics, by V. K. Kapoor.
- viii) Business Statistics, by G. C. Beri.

B.Com. Part-III- SEM-V (CBCS)
Paper II : DSE-J 2 : Advanced Statistics
(Applied Statistics)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

1. Explain the concept of demography and terms related to it.
2. Use the life table and mortality table in real life situations.
3. Understand the concept of hypothesis testing and different tests of hypothesis.
4. Perform testing of hypothesis for the real-life examples.

Unit 1 Measures of Mortality and Fertility:

Concept of demography, vital events, Different measures to measure birth rates such as i) CBR ii) GFR iii) ASFR iv) TFR. Definition, formula, merits and demerits, example based on these rates. Different measures of mortality i.e. death rates such as i) CDR ii) SDR iii) STDR by direct method, Example based on these rates. [15Periods]

Unit 2 Measures of Population growth or Reproduction rates:

Limitations/definition of fertility rate, Introduction of measures of population growth, measures such as GRR and NRR, Definition, formulas, merits and demerits of each one, examples based on these measures. [15Periods]

Unit 3 Life table or Mortality table:

Definition, types of life table, various columns of life table, construction of life table, Examples based on fill in the blanks or total construction when x and $l(x)$ is known. Uses of life table. [15Periods]

Unit 4 Testing of Hypothesis:

Definition of Parameter, Statistic, Hypothesis (simple and composite, null and alternative), Critical Region, level of significance, Type-I and Type-II errors.

- a) Large sample tests for variables (z test): Test for $\mu = \mu_0$ and $\mu_1 = \mu_2$
- b) Large sample tests for proportion: Test for $p = p_0$ and $p_1 = p_2$
- c) Student's t test: Test for $\mu = \mu_0$ and $\mu_1 = \mu_2$

- d) Chi square test: Chi-square test of independence of two attributes (for $m \times n$ contingency table), derivation of formula for 2×2 contingency table. Examples based on these tests.
- e) Snedecore's F test: Test for $\sigma_1^2 = \sigma_2^2$ [15Periods]

Reference Books

- i) Business Statistics by S.S. Desai
- ii) Business Statistics by G.V. Kumbhojkar
- iii) Introduction to Mathematical Statistics by S.C. Gupta.
- iv) Mathematics & Statistics by Sureanjan Shah
- v) Text book of matrices by Shanti Narayan
- vi) Elements of Statistics, by D. N. Elhance.
- vii) Fundamentals of Applied Statistics, by V. K. Kapoor.
- viii) Business Statistics, by G. C. Beri.

B.Com. Part-III- SEM-VI (CBCS)
Paper III : DSE-J 3 : Advanced Statistics
(Probability and Probability distributions)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

- i) Explain the concept of probability and compute the probability of various events.
- ii) Explain the concept of mathematical expectation and derive it.
- iii) Understand discrete probability distributions in general.
- iv) Understand Binomial, Poisson and Normal distributions

Unit No. 1 Probability

Concept and definitions of various terms used in probability, definition of probability. Examples based on definition. Addition and Multiplication laws of probability (with proof). Bayes theorem (Statement only). Examples on conditional probability and Bayes theorem.

[15 Periods]

Unit No. 2 Mathematical Expectation

Definition and examples based on mathematical expectation. Addition and Multiplication theorems on mathematical expectation (with proof). Examples based on these theorems. [15

Periods]

Unit No.3 Discrete probability distribution

Definition of probability mass function (pmf) distribution function (cdf). Properties of distribution function. Numerical Examples. [15 Periods]

Unit No. 4 Probability distributions

Binomial, Poisson and Normal distributions: Definition, properties and examples based on these distributions. Mean and variance of binomial and Poisson distributions (with Proof). Poisson distribution as limiting case of binomial distribution (with Proof). Limitations of Binomial distribution. Properties of normal curve. Fitting of Binomial and Poisson Distributions.

[15 Periods]

Reference Books for paper III:

- i) Business Statistics by S.S. Desai, Publisher: Jai-Gouri
- ii) Business Statistics by G.V. Kumbhojkar, Publisher: Phadake
- iii) Introduction to Mathematical Statistics by S.C. Gupta and V.K. Kapoor Sultan Chand & Sons, Delhi.

B.Com. Part-III- SEM-VI (CBCS)
Paper – IV : DSE-J 4 : Advanced Statistics
(Operations Research)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

- i) Formulate and solve a linear programming problem.
- ii) Solve transportation problem using various methods.
- iii) Solve assignment problem using Hungarian method.
- iv) Solve Sequencing Problem.

Unit No. 1 Linear Programming Problem

Concept, formulation of Linear Programming Problem (L.P.P.). Solution of L.P.P. by graphical method. Examples based on minimization and maximization of given function.

[15 Periods]

Unit No. 2 Transportation problem

Concept, Mathematical Model, Balanced and Unbalanced Transportation problem (T.P.). Solution of T.P. by i) NWCR method ii) Least cost method, iii) Vogel's method. Examples based on these methods.

[15 Periods]

Unit No. 3 Assignment Problem

Concept, Mathematical Model, Balanced and Unbalanced Assignment Problem (A.P.) Hungarian method to obtain solution. Examples by Hungarian method.

[15 Periods]

Unit No. 4 Sequencing Problem

Concept of sequencing, sequencing of n jobs through 2 machines, and n jobs through 3 machines. Stepwise procedure. Examples to determine the sequencing and total time required. Also to find Idle time of the machine.

[15 Periods]

Reference Books for paper IV

- i) Operations Research by S. D. Sharma, Publisher: Kedar Nath.
- ii) Operations Research: An Introduction by H A Taha, Publisher: Pearson.
- iii) *Operations Research: Theory and Application*, J.K. Sharma, Publisher. Macmillan.

EQUIVALENCE OF THE PAPERS / COURSES

Sr.	Existing title of the Paper	Revised Title of the paper
1	Advanced Statistics Paper I (Mathematical Methods)	Advanced Statistics Paper I (Mathematical Methods)
2	Advanced Statistics Paper II (Applied Statistics)	Advanced Statistics Paper II (Applied Statistics)
3	Advanced Statistics Paper III (Probability and Probability distributions)	Advanced Statistics Paper III (Probability and Probability distributions)
4	Advanced Statistics Paper - IV (Operations Research)	Advanced Statistics Paper - IV (Operations Research)

Nature of question paper for B.Com -III

Semester V & VI (Paper No. I to IV)

Attempt any five questions.

Total marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com Part – III Semester V

Paper-I: DSE-K1: E-Commerce

Course Outcome –

1. **Understanding the basic structure of E-Commerce industry**
2. **Understanding transactional flow in E-Commerce**

Sr No.	Topic	No of Lectures
Unit 1	<p>Introduction to Electronic Commerce</p> <ul style="list-style-type: none">• What is E-Commerce• Goals of E-Commerce• Functions of E-Commerce• Potential of E-Commerce Industry• Various e-commerce platforms at present• Types of E-Commerce segments (B2C, B2B, C2C etc.) <p>Practical – Get preliminary information of various E-Commerce companies</p>	15
Unit 2	<p>E-Commerce Framework</p> <ul style="list-style-type: none">• Introduction to E Commerce Structure / Framework• Internet• e-Commerce Portal / ERP System• Warehouse• Point of Sale (POS)• Payment Gateway• Call Centre• Data Analytics• CRM (Customer Relationship Management) <p>Practical – Draw Diagram of framework of any e-commerce company based on some practical research</p>	15
Unit 3	<p>Electronic Payment System</p> <ul style="list-style-type: none">• Introduction• Modes of Electronic payments (net banking, debit / credit card, payment wallets etc.)• Online payment process• Security controls• Online frauds & cautions to be taken care of• Online payment service providers <p>Practical – Prepare case study paper on online fraud</p>	15

Unit 4	<p>Online Order Processing</p> <ul style="list-style-type: none"><li>• Order Intimations<li>• Shipping & Billing<li>• Bar Code System<li>• Shipment Tracking<li>• Order Dashboard<li>• Account Settlement <p>Practical – Visit any online seller and observe order processing activities</p>	15
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B.Com Part – III Semester III

Paper-II : DSE-K2 : E-Commerce

Course Outcome –

1. Understanding the various functions of E-Commerce industry
2. Understanding of cyber security threats and remedies
3. Understanding of basics of digital marketing

Sr No.	Topic	No of Lectures
Unit 1	Supply Chain & Warehouse Management <ul style="list-style-type: none">• Packaging of Products• Inventory Management – Coding, storage & monitoring• Security Controls Practical – Visit any seller company who sales online and observe the warehouse management systems	15
Unit 2	Digital Marketing Basics <ul style="list-style-type: none">• Various avenues of digital marketing• Difference between traditional marketing and digital marketing• SEO (Search Engine Optimization)• Recent Trends in digital marketing Practical – Visit any Digital marketing service provider company and interact	15
Unit 3	Cyber Laws & Intellectual Property Rights, Internet Security <ul style="list-style-type: none">• Types of cyber threats (financial, virus, hacking etc.)• Introduction to Information Technology Act• Importance of Trade Mark, Patents & Copy Right• Consequences of Infringement Practical – Visit any Cyber Law Professional / IPR service provider company and interact	15
Unit 4	CRM (Customer Relationship Management) <ul style="list-style-type: none">• What is CRM• Use of Technology for CRM• Future of Industry• New Marketing Trends• Loyalty Programmes Practical – Make short study on CRM softwares used in the market	15

Reference Books:

1. Concepts of E-Commerce by Adesh Pandye
2. E-Commerce by Sarika Gupta and Gaurav Gupta
3. E-Commerce Strategy, Technology and Implementation by Gary Schneider
4. The Complete E-Commerce Book by Janice Reynolds

B.Com Part – III Semester VI

Paper-III : DSE-K3 : E-Commerce

Course Outcome –

4. Understanding the various functions of E-Commerce and its technological aspect.
5. Understanding of consumer oriented e Commerce and e retailing.
6. Understanding of basics of digital marketing

Sr No.	Topic	No of Lectures
Unit 1	Internet Concepts & Technologies: <ul style="list-style-type: none"> • Concept & evolution of internet • Web technologies – Global Publishing concept, hypertext, • Concepts of URLs, HTTP, HTTPD, Servers, HTML, HTML Forms & CGI gateway services. 	
Unit 2	E-Commerce and its Technological aspect: <ul style="list-style-type: none"> • Developments in Information Technology and its relevance to E-Commerce • The scope of E- Commerce, E- Marketing • Benefits and limitations of E-Commerce, • Produce a generic framework for E-Commerce. • Architectural framework of Electronic Commerce, Web based E Commerce Architecture. <p><i>Practical – Conduct interview of minimum 5 online shop holders and observe their management systems</i></p>	15
Unit 3	Consumer Oriented E- Commerce and E-Retailing: <ul style="list-style-type: none"> • Traditional retailing and e retailing, Benefits of e retailing, • Models of e retailing, Features of e retailing. • E services: Categories of e-services, Web-enabled services, matchmaking services, Information-selling on the web, • E entertainment, Auctions and other specialized services. • Business to Business Electronic Commerce <p><i>Practical – identifying customer oriented e-Services and develop models of E-services</i></p>	15

Unit -4	Electronic Data Interchange: <ul style="list-style-type: none"> • Benefits of EDI, EDI technology, EDI standards, EDI Communications, EDI Implementation, EDI Agreements, EDI Security. • Electronic Payment Systems, Need of Electronic Payment System: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. • Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet. <p><i>Practical – Conduct Dumy bank transaction and write detail process of Electronic payment system, Fund transfer syste.</i></p>	15
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Reference Books:

1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.
2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley. 3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A ManagerialPerspective", Addison-Wesley.
4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education.

B.Com Part – III Semester VI

Paper-IV : DSE-K4: E-Commerce

Course Outcome –

1. **Understanding the various functions of E-Commerce ad its technological aspect.**
2. **Students able to know the security issues in E-Commerce.**
3. **Understanding of basics of digital marketing**

Sr No.	Topic	No of Lectures
Unit 1	Website Design and E-Commerce <ul style="list-style-type: none"> • Role of web – site in B2C e-commerce; website strategies & web-site design principles; • Push & pull technologies, alternative methods of customer communication. <p>Multi – Media & E-commerce; push & pull technologies, alternative methods of customer communication</p>	15

Unit 2	Online Retail Sector: <ul style="list-style-type: none"> • Analyzing the Viability of Online Firms • E-commerce in Action: E- Retailing Business Models <ul style="list-style-type: none"> • The Service Sector: Offline and Online • Online Financial Services • Online Travel Services • Online Career Services • • On-Demand Service Companies 	15
Unit 3	Security Issues in E-Commerce: <ul style="list-style-type: none"> • Introduction, need and importance • Security risks of e-commerce, exposure of resources, • Type of threats, sources of threats, • Security tools & risk – management approach 	15
Unit 4	Ethical, Social and Political issues in E-Commerce: <ul style="list-style-type: none"> • Basic Ethical Concepts, Analyzing Ethical Dilemmas, Candidate Ethical principles • Privacy and Information Rights: Information collected at E-Commerce Websites, The Concept of Privacy, Legal protections • Intellectual Property Rights: Types of Intellectual Property protection, Governance. <p><i>Practical – Prepare case study and project report on ethical, political and social issues E-Commerce</i></p>	15

Reference Books:1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.

2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley. 3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A ManagerialPerspective", Addison-Wesley.

4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education.

B. Com (CBCS Pattern)Part- III (Semester-V)

Paper IX : Tax Procedure and Practice

Title of paper- GST (CGST, SGST and IGST)

Generic Elective Course

(Credit 4)

Objectives:- 1) To enhance the knowledge of students with latest amendments in GST Law

2) To clarify the technical aspects and provisions in GST Law

Unit- I	GST Returns (Furnishing details of outward supply, Furnishing details of inward supply, First Return, Annual Return, Final Return, matching of Input Tax Credit)- Specimen Forms for the Returns	Periods-20
Unit- II	1) Sec. 35 Accounts and Sec. 36 Records (Period of Retention, Rules for maintenance of Accounts) 2) Sec. 67 Inspection, Search and Seizure (Power of Inspection, Authority for Search and Seizure)	Periods-10
Unit- III	TCS and TDS, Payment of GST (payment of tax, Interest etc.)	Periods- 10
Unit- IV	Basic Problems- Net GST liability, Time of Supply, Value of Supply	Periods- 20

B. Com (CBCS Pattern)Part- III (Semester-VI)

Paper XI : Tax Procedure and Practice

Title of paper- GST (CGST, SGST and IGST)

Generic Elective Course

Credit-4

Objectives:- 1) To enhance the knowledge of students with latest amendments in GST Law

2) To clarify the technical aspects and provisions in GST Law

Unit- I	Refund of GST (Refund of Tax, Interest on delayed refund	Periods-10
Unit- II	1) Assessment- Self Assessment, Provisional Assessment, Summery Assessment, Scrutiny Assessment, Best Judgment Assessment 2) Audit- Sec. 65- Audit by Tax Authorities Sec. 66- Special audit	Periods-10
Unit- III	1) Appeals and Revision (Appeals to appropriate authority, power of revisional authority) 2) Advance Rulings (Authority for advance rulings, application and procedure)	Periods- 20
Unit- IV	Basic Problems- Admissibility of ITC, Calculation of net GST liability, Composition levy	Periods- 20

B.com- III
Semester V and VI (CBCS Pattern)
Tax Procedure and Practice- GST (CGST, SGST and IGST)
Nature of Question Paper

Internal Marks- 10 marks
Shivaji University Exam 40 marks

Instructions:-

- 1) All question carry equal marks
- 2) Attempt any Five questions out of Seven

Q. 1	Theory- Short Notes (Any Two out of Four)	08 marks
Q. 2	Theory Broad Question	08 marks
Q. 3	Theory Broad Question	08 marks
Q. 4	Problems	08 marks
Q. 5	Problems	08 marks
Q. 6	Problems	08 marks
Q. 7	Problems	08 marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax procedure and practice GST (CGST, SGST and IGST) paper- IX (Vocational)	Tax procedure and practice GST (CGST, SGST and IGST) paper- IX (CBCS)
2	Tax procedure and practice GST (CGST, SGST and IGST) paper- XI (Vocational)	Tax procedure and practice GST (CGST, SGST and IGST) paper- XI (CBCS)

Reference Books:-

- 1) A Birds eye view- Jha and Singh
- 2) GST made simple- Taxman
- 3) Basics of GST- Taxman
- 4) GST guide for Students- CA Vivek Agarwal

B. Com (CBCS Pattern) Part III (Semester V)

Paper X : Tax Procedure & Practice

Title of Paper – **Customs**

Generic Elective Course

Credit – 4

Objectives : -

1	To impart theoretical knowledge of Basic concepts of customs, import & export.
2	To develop the skills of solving problems of valuation and calculation of custom duties on imported goods.
3	To acquaint students with the term prohibition on import & export in customs.

Unit I	Introduction of Customs, Role in international trade, organization of customs in India, administration & operational authorities.	10 Hours
Unit II	An overview of Customs Act, 1962, Customs Tariff Act, 1975. Kinds of duties - Basic, Protective, CGST, safeguard, Anti-dumping, anti-subsidy, countervailing, NCCD, cess	10 Hours
Unit III	Important terms & definitions - Assessable value, baggage, Bill of Entry, Bill of Export, Dutiable Goods, Foreign Going Vessel, Exporter, Import Manifest, Prohibited Goods, Shipping Bill, Bill of Lading, Import, Importer, Stores, Letter of Credit, FOB, CIF, Goods Prohibition on importation & exportation of goods & it's reasons, Smuggling	30 Hours
Unit IV	Basic problems- Valuation of imported goods, calculation of custom duty	10 Hours

B. Com (CBCS Pattern) Part III (Semester VI)
Paper XII : Tax Procedure & Practice
 Title of Paper – **Customs**
 Generic Elective Course

Credit - 4

Objectives : -

1	To understand the meaning of types & modes of import & export.	
2	To impart theoretical knowledge of import & export clearance procedure of goods in detail.	
3	To enhance the knowledge of students with the practical solutions of computation of Baggage.	

Unit I	<u>Import of Goods</u> - Types of import- Free, Restricted, Prohibited types of licenses - Advance, EPCG,DFRC, Modes of import <u>Export of Goods</u> - Types of export, types of Exporter, Modes of export	10 Hours
Unit II	<u>Clearance Procedure of Import & Export</u> Import - For Home Consumption, for warehousing, Ex-bond clearance Export -Procedure & filing of documents, Main, auxiliary & regular	20 Hours
Unit III	<u>Duty Drawback System</u> Meaning of scheme, Sec 74 & sec 75, Rules for drawback, Documents required for claiming drawback, types of duty drawback	10 Hours
Unit IV	<u>Clearance of Baggage</u> Meaning and kinds of baggage, Rules & procedure of import thereof Basic problems on clearance of baggage & calculation of custom duty thereon	20 Hours

<p style="text-align: center;">B.Com. Part-III Semester – V (Optional Paper) Industrial Management Paper – I Subject Code: DSE – B1 (Factory and Capital Management)</p>		
<p>Objectives:-</p> <ol style="list-style-type: none"> 1. To make students familiar with the subject industrial management. 2. To expose the students the importance and applicability of industry management. 		
<p>Learning Outcomes</p> <ol style="list-style-type: none"> 1. Understanding the concept Industrial Management. 2. Acquaintance with the Work Environment. 3. Acquaintance with the Plant Maintenance. 4. Acquaintance with Financial Management 		
<p>Teaching Methods: <i>Lecture, Interactive ICT Based Use of case lets</i> <i>Lecture Interactive ICT Based Discussion Method</i></p>		
Sr. No	Content	No. of Lectures
1	<p>Unit I:-</p> <p>1.1 Introduction to Industrial Management– Meaning and importance of industrial management.</p> <p>1.2 Introduction to Enterprise Resource Planning (ERP), System Application and Product (SAP)</p> <p>1.3 Factory Location and Plant Layout-</p> <p>1.3.1 Factory Location: Meaning of location of factory, factors determining location of factory</p> <p>1.3.2 Plant Layout: Meaning of plant layout Objectives, Importance of plant layout, Factors influencing layout, Types of layout Problems of layout.</p>	20
2	<p>Unit II :- Work Environment -</p> <p>2.1 Meaning</p> <p>2.2 importance of work Environment</p> <p>2.3 Factors affecting work environment, Lighting, Ventilation, Sanitation, noise control and Air conditioning</p> <p>2.4 Quality Circles, Kaizen, 5 S,</p>	20
3	<p>Unit III :- Plant Maintenance –</p> <p>3.1 Concept, Importance</p>	10

	<p>3.2 Objectives of good maintenance system</p> <p>3.3 types of maintenance</p> <p>3.4 Preventive Maintenance</p> <p>3.5 Recent trends in plant maintenance</p>	
4	<p>Unit IV – Financial Management</p> <p>4.1 Concept of financial Management,</p> <p>4.2 Objective of Financial management</p> <p>4.3 Importance and Determinants of Capital Management</p> <p>4.4 Sources of finance</p> <p>4.5 Fixed and working capital</p>	10
	<p>References for Paper I to IV :</p> <ol style="list-style-type: none"> 1. L. C. Jhamb: Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain : Industrial Management\ Kitab Mahal– Agre 3. K. Aswathappa: Production and Operations Management 4. K. ShridharaBhat – Himalaya Publishing House 5. M. E. ThukaramRao: Industrial Management Himalaya Publishing House 6. Lundy J. L. : Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M. : Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting: B. K. Bhar 9. C. B. Mamoria Gankar: Dynamics of Industrial Relations 10. O. P. Khanna: Industrial Engineering and Management 11. K. Ashwathappa: Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi 	

	<p>B.Com. Part-III</p> <p>Semester – V</p> <p>(Optional Paper)</p> <p>Industrial Management Paper – II Subject Code: DSE – B2</p> <p>(Human Resource Management)</p>
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	Objectives: <ol style="list-style-type: none"> 1. To make students familiar with the subject human resource management. 2. To expose the students the importance and applicability of human resource management. 	
	Learning Outcomes: <ol style="list-style-type: none"> 1. Knowledge about the Human Resource Management 2. Acquaintance with the Human Resource Management 3. Acquaintance with the Employee Training. 4. Acquaintance with - Recent Trends in HRM 	
	Teaching Methods: Lecture, Interactive ICT Based Use of case lets. Lecture Interactive ICT Based Discussion Method	
Sr. No	Content	No. of Lectures
1	Unit I - Introduction to Human Resource Management- <ol style="list-style-type: none"> 1.1 Concept and Nature 1.2 Scope 1.3Significance 1.4 Objectives 1.5 Functions of HRM. 1.6 Ethical Issues In HRM: Meaning, Importance and Ethical Issues In HRM 	10
2	Unit II – Human Resource Planning (HRP) <ol style="list-style-type: none"> 2.1Meaning and need for Human resource Planning, Process of HRP Factors affecting HRP 2.2Job Analysis, Job Description, Job Specification. 2.3Recruitment and selection- <ol style="list-style-type: none"> 2.3.1 Meaning, 2.3.2 Sources of recruitment 2.3.3 Steps in the scientific selection procedure 2.3.4 e- recruitment: Meaning and Advantage 	20
3	Unit III – Employee Training and Performance Appraisal <ol style="list-style-type: none"> 3.1Employee Training- <ol style="list-style-type: none"> 3.1.1 Meaning 3.1.2 Need for training 3.1.3Steps in training 3.1.4Methods of Training 3.1.5Impediments of effective training 3.2Performance Appraisal and Merit Rating <ol style="list-style-type: none"> 3.2.1 Meaning 	20

	<p>3.2.2 purpose of performance appraisal</p> <p>3.2.3 Methods of performance appraisal 3.2.3 Ethics in performance appraisal</p> <p>Merit Rating-</p> <p>3.2.4 Meaning</p> <p>3.2.5 Benefits of Merit Rating,</p> <p>3.2.6 Difference between performance appraisal and merit rating</p>	
4	<p>Unit IV :- Recent Trends in HRM –(Concept and Nature)</p> <p>4.1 Employee's brand</p> <p>4.2 Outsourcing of HR</p> <p>4.3 e-HRM</p> <p>4.4 Work Life Balance</p> <p>4.5 Emotional Intelligence and Talent Management</p>	10
	<p>References for Paper I to IV:</p> <ol style="list-style-type: none"> 1. L. C. Jhamb : Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain : Industrial Management\ 3. K. Aswathappa : Production and Operations Management 4. K. ShridharaBhat – Himalaya Publishing House 5. M. E. Thukaram Rao : Industrial Management Himalaya Publishing House 6. Lundy J. L. : Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M.: Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting: B. K. Bhar 9. C. B. Mamoria Gankar : Dynamics of Industrial Relations 10. O. P. Khanna : Industrial Engineering and Management 11. K. Ashwathappa : Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi 	

<p>B.Com. Part-III</p> <p>Semester - VI</p> <p>(Optional Paper)</p> <p>Industrial Management Paper – III Subject Code: DSE – B3</p> <p>(Production Management)</p>	
	<p>Objectives:</p> <ol style="list-style-type: none"> 1. To make students familiar with the subject industrial management. 2. To Expose the students the importance and applicability of industrial management

	<p>Learning Outcomes: Understanding the Meaning concept of Production Management and PPC. Acquaintance with the Productivity. Acquaintance with the Inventory Management Acquaintance with Logistic Management</p>	
	<p>Teaching Methods: 1. Lecture, Interactive ICT Based Use of case lets. 2. Lecture Interactive ICT Based Discussion Method</p>	
Sr. No	Content	No. of Lectures
1	<p>Unit I:- Production Management and Planning and Control (PPC): – 1.1Production Function- 1.1.1 Meaning, Concept and Objectives 1.1.2 Function of production Management 1.2Planning and Control (PPC): 1.2.1 Meaning 1.2.2 Objectives 1.2.3Importance of production planning and control 1.2.4 Techniques of production control Routing, Scheduling, Dispatching and follow up 1.2.5 Limitations of PPC.</p>	20
2	<p>Unit II :- Productivity - 2.1Meaning, Importance 2.2Measurement of Productivity 2.3Factors influencing productivity 2.4Methods of improving productivity 2.5ProductionV/s Productivity.</p>	10
3	<p>Unit III :- Inventory Management 3.1 Meaning and Objectives of inventory Management 3.2 Receipt and issue of material (Bin Card, Store Ledger) 3.3 Pricing of material Issues (First In First Out and Last In First Out) 3.4 EOQ 3.5 ABC Analysis and VED Classifications 3.6 Just in Time (JIT) Production – Meaning, Techniques and Advantages. 3.7 Recent Trends in Inventory Management.</p>	20

4	Unit IV :- Logistic Management- 4.1 Meaning 4.2 Objectives 4.3 Importance of logistic Management, 4.4 Activities of the logistics Management 4.5 Functions-Transportation, Warehousing including Cold Storage Material handling and Packaging. 4.6 Supply chain Management: Meaning, Definition and Importance	10
	References 1. L. C. Jhamb: Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain: Industrial Management\ Kitab Mahal– Agre 3. K. Aswathappa : Production and Operations Management 4. K. Shridhara Bhat – Himalaya Publishing House 5. M. E. Thukaram Rao : Industrial Management Himalaya Publishing House 6. Lundy J. L.: Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M.: Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting : B. K. Bhar 9. C. B. MamoriaGankar : Dynamics of Industrial Relations 10. O. P. Khanna : Industrial Engineering and Management 11.KAshwathappa : Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi	

B. Com. Part-III Semester – VI (Optional Paper) Industrial Management Paper – IV Subject Code: DSE – B4 (Personnel Management)	
	Objectives: 1. To make students familiar with the subject industrial management. 2. To expose the students the importance and applicability of industry management.
	Learning Outcomes: 1. Knowing the meaning and concept about the Employee Remuneration. 2. Acquaintance with the Industrial Relations. 3. Acquaintance with the Employee Safety, Health and Moral 4. Acquaintance with HR Accounting

	Teaching Methods: <i>Lecture, Interactive ICT Based Use of case lets.</i> <i>Lecture Interactive ICT Based Discussion Method</i>	
Sr. No	Content	No. of Lectures
1	Unit I:- Employee Remuneration – 1.1 Concepts of remuneration 1.2 Meaning of wages and salary 1.3 Objectives of wage and salary administration 1.4 Factors influencing wage and salary structure and administration 1.5 Methods of wage payment Time rate, Piece rate 1.6 Incentive plans (Halsey, Rowan and Taylor)	10
2	Unit II :- Industrial Relations – 2.1 Meaning, Objectives and Significance of industrial relations 2.2 The parties to industrial relations 2.3 Factors affecting industrial relations. 2.4 Meaning and Causes of industrial Disputes 2.5 Measures taken by Govt. to prevent Industrial disputes.	20
3	Unit III :- Employee Safety, Health and Moral: 3.1 Meaning and need of employee safety 3.2 Factors in safety programme Meaning and importance of employee health 3.3 Occupational hazards, risks and diseases 3.4 Protection against health hazards and statutory provisions under The Factories Act, 1948– Health, safety and welfare provisions 3.5 Meaning of employee morale.	20
4	HR Accounting: 4.1 Meaning, Definition and Objectives 4.2 Advantages of HR Accounting 4.3 Determinants of Human Capital 4.4 Methods of HR Accounting	10
	References for Paper I to IV: 1. L. C. Jhamb : Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain : Industrial Management\ Kitab Mahal– Agre 3. K. Aswathappa : Production and Operations Management 4. K. Shridhara Bhat – Himalaya Publishing House 5. M. E. Thukaram Rao : Industrial Management Himalaya Publishing House 6. Lundy J. L. : Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M.: Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting: B. K. Bhar 9. C. B. Mamoria Gankar: Dynamics of Industrial Relations	

	<p>10. O. P. Khanna : Industrial Engineering and Management 11.KAshwathappa : Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi.</p>	
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SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962
NAAC 'A' Grade
Syllabus For
Bachelor of Commerce
B.Com. Part-I
CBCS Pattern
Financial Accounting
Sem-I & Sem-II

Introduced from June 2018 and Onwards
(Subject to the modifications will be made from time to time)

B. Com. (CBCS Pattern)
Part- I (Semester I)
Financial Accounting Paper I
Core Course

Introduce from June-2018-19

Credits : 4

Course Inputs :

Unit I : Basic Accounting Concepts and Conventions, Accounting Process.
Accounting Standards-Need & Procedure, Concept of IFRS **(15 Hours)**

Unit II : Amalgamation of Partnership Firms **(15 Hours)**

Unit III : Consignment Accounts-Important Terms and Accounting in the books of
Consignor and Consignee. **(15 Hours)**

Unit IV : Accounts of Professionals –preparation of Receipts and Expenditure
Account and Balance sheet of Medical Practitioners and Professional Accountants.
(15 Hours)

B. Com.(CBCS Pattern)
Part- I (Semester- II)
Financial Accounting Paper- II
Core Course

Introduce from June-2018-19

Credits : 4

Unit I : Single Entry System - Conversion Method only

(15 Hours)

Unit II : Conversion of Partnership Firm into a Limited Company-Accounting in the books of partnership Firm only.

(15 Hours)

Unit III : Branch Accounts - Dependent Branch- preparation of Branch Account, Branch Trading and Profit and Loss Account and Stock and Debtors Method

(15 Hours)

Unit IV : Computerized Accounting System :

Introduction to Computerized Accounting. Accounting softwares 'Tally'- preparation of Vouchers, Feeding of Data and Generating of various Reports

(15 Hours)

Suggested Readings :

1. Gupta R.L. and Radhaswamy M – 'Financial Accounting' Sultanchand and Sons, New Delhi.
2. Shukla M.C. Grewal T.S. and Gupta S.C. – 'Advanced Accounts' S.Chand and company, New Delhi.
3. Agarwala A.N. Agarwala K.N.- 'Higher Science of Accountancy' Kitab Mahal Allahabad.
4. Jain and Narang – 'Advanced Accountancy' Kalyani Publications, New Delhi.
5. S.N. Mheswari – 'Advanced Accountancy'
6. Compendium of statement and standard of Accounting. The institute of Chartered Accounts of India.
7. Rajan Chougule, Dhaval chougule –“ Theory and practice of Computer Accounting” Modern Publication, Kolhapur.

Note-

1- Practical Questions on unit no-2 to 4 from Sem. I and 1 to 3 from sem. II

2- Nature of Question paper will remain same as before

Note- College should make a provision of necessary computers for commerce department to train the students in computer Accounting as prescribed in the syllabus.

Equivalence

1	Financial Accounting Paper I Sem-I	1- Financial Accounting Paper I Sem-I
2	Financial Accounting Paper II Sem-II	2- Financial Accounting Paper II Sem-II

SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962
NAAC 'A' Grade
Syllabus For
Bachelor of Commerce
B.Com. Part-I
CBCS Pattern
INSURANCE
Sem-I & Sem-II

Introduced from June 2018 and Onwards

(Subject to the modifications will be made from time to time)

B. Com. (CBCS Pattern)
Part- I (Semester I)
INSURANCE Paper I
Generic Elective Course
Introduce from June-2018-19

Credits : 4

Objective : The objective of this course is to provide basic knowledge of principles and practice of insurance and life insurance.

Unit-1: **Introduction to Insurance** - Definition, characteristics and need of insurance. Economic and commercial significance of insurance. Insurance as a social security tool. Types of insurance in brief. Principles of insurance. Insurance contract and wagering contract. (15 Hours)

Unit-2: **Life Insurance** – Meaning and Nature of life insurance. Life insurance products, - whole life, endowment, term plans, pension and annuity plans , unit linked Insurance plans. (15 Hours)

Unit-3: **Life Insurance Policy** – Meaning, Procedure of taking life insurance policy-policy conditions –settlement of claims. (15 Hours)

Unit-4: **Life Insurance Business in India** – Growth of life insurance business after privatization. Evaluation of performance of LIC of India and private companies. Insurance Regulatory and Development Authority Act, 1999- structure. organizational set up and functions. (15 Hours)

Note- visit to Life Insurance Company &/or Guest lecturers may be arranged .

Shivaji University Kolhapur
B. Com. (CBCS Pattern)
Part- I (Semester II)
INSURANCE Paper- II
Generic Elective Course

Credits : 4

Objective :

The objective of this course is to enable students to know the fundamentals of general insurance.

Unit - 1 : **Fire Insurance** - Meaning - Procedure of taking fire Insurance policy - policy conditions- kinds of policies - cancellation and forfeiture of policy - Renewal of policy - settlement of claims. (15 Hours)

Unit-2 : **Marine Insurance** - Meaning - Procedure of taking marine insurance policy - Difference between fire and marine Insurance - clauses of marine insurance policy - marine losses and perils - Types of policies (15 Hours)

Unit - 3 : **Miscellaneous Insurance (only nature & cover)**

- a. Personal Accident insurance
- b. Health insurance
- c. Motor Insurance
- d. Burglary Insurance
- e. Liability Insurance
- d. Fidelity guarantee Insurance
- e. Cattle Insurance
- f. Crop Insurance

Unit - 4 : **General Insurance Business in India** : Growth of general insurance business after privatization . Evaluation of performance of public and private companies- Foreign Direct Investment (FDI) in insurance business- merits and demerits, current scenario - Bancassurance . (15 Hours)

Note:- Visit to general insurance company and /or a Guest lectures may be arranged.

List of Reference books (Paper I & II)

1. G.S. Panda-' Principles and Practices of Insurance' Kalyani Publishers , Ludhiana
2. M. Arifkhan -'Theory and Practice of Insurance' Educational Book House, Aligarh.
3. M.N. Mishra-'Insurance Principles and Practice' S. Chand & Company Ltd. New Delhi.
4. Kothari & Bahl, Principles and Practice of Insurance' Sahitya Bhawan, Agra.
5. S.Balachandran, General Insurance, Insurance Institute of India, Mumbai.
6. S.Balachandran, Life Insurance, Insurance Institute of India, Mumbai.
7. Insurance Regulatory Development Authority Act-1999.

Note- Latest edition of text books may be used.

Equivalence in accordance with titles and contents of paper

(For CBCS semester pattern of new syllabus)

Sr. No.	Title of Old Paper	Title of New Paper
1	Insurance Paper-I (Sem-I)	Insurance Paper- I (Sem-I)
2	Insurance Paper-II (Sem-II)	Insurance Paper- II (Sem-II)

SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962

NAAC 'A' Grade

Syllabus For

Bachelor of Commerce

B.Com. Part-I

CBCS Pattern

Management Principles and Applications

Sem-I & Sem-II

Introduced from June 2018 and Onwards

(Subject to the modifications will be made from time to time)

B.Com. Part-I
Semester I
As per CBCS Pattern
Introduced from June 2018-19
Management Principles and Applications -Paper-I
Core Course

Duration: 2 hrs.

Marks: 50

Lectures : 60

Objective:

1. To provide the student with an understanding of basic management concepts, principles and practices.
2. To provide the student with detailed understanding of basic management functions.

Unit 1: Introduction to the Management:

Lectures-15

Meaning, Definition and Need for Study

- Contribution towards development of Management Theory

- Elton Mayo- Hawthorne Experiment- its implications and limitations
- Peter Drucker – M.B.O

Different Approaches to Management its use and limitations-Behavioral Approach, Systems Approach, Contingency Approach

Unit 2: Planning and Decision Making

Lectures-15

Meaning and Definition of Planning - Types of Planning – Steps in Planning Process

Environmental Analysis and diagnosis (Internal and external environment) –Definition, Importance and SWOC Analysis.

Decision Making- concept- importance; Decision-making Process, Perfect Rationality and bounded rationality, Techniques of Decision making -qualitative and quantitative

Unit 3: Organizing

Lectures- 15

Organizing – Meaning -The Process/steps of organization – Principles of organizing– Organization Chart

Delegation of Authority – Meaning - Elements –Difficulties in delegation – Guidelines for making delegation effective.

Centralization and Decentralization - Meaning, Merits and Demerits

Organization Structure -line, line and staff, and functional, Network organization structure.

4: Direction and Communication

Lectures- 15

Direction- Meaning, Elements, Principles & Techniques

Communication-Meaning, Importance /Process of Communication, Types of communication, Barriers to Communication.Overcoming Barriers to Communication

Suggested Readings:

1. Harold Koontz and Heinz Weihrich, Essentials of Management: An International and Leadership Perspective, McGraw Hill Education.
2. Stephen P Robbins and Madhushree Nanda Agrawal, Fundamentals of Management: Essential Concepts and Applications, Pearson Education.
3. George Terry, Principles of Management, Richard D. Irwin
4. Newman, Summer, and Gilbert, Management, PHI
5. James H. Donnelly, Fundamentals of Management, Pearson Education.
6. B.P. Singh and A.K.Singh, Essentials of Management, Excel Books
7. Griffin, Management Principles and Application, Cengage Learning
8. Robert Kreitner, Management Theory and Application, Cengage Learning
9. TN Chhabra, Management Concepts and Practice, DhanpatRai& Co. (Pvt. Ltd.), New Delhi
10. Peter F Drucker, Practice of Management, Mercury Books, London
11. Organisation and Management- Dr. C.B. Gupta
12. Business Organisation and Management –M.C.Shukla
13. Essentials of Management- Koontz and O' Donnell
14. Management: Stoner
16. Management: Moshal
17. Principles of Management- P.C. Tripathi and P.H.Reddy
18. Management- Principles and practice- Shriniwas & Chunawala
19. Principles of management: Terry,G.R.and Stephen Franklin

Syllabus For
B.Com. Part-I
Semester II
As per CBCS Pattern
Introduced from June 2018-19
Management Principles & Application -Paper-II
Core Course

Duration: 2 hrs.

Marks: 50

Lectures : 60

Objective:

1. To provide the student with an understanding of basic management concepts, principles and practices.
2. To provide the student with detailed understanding of basic management functions

Unit 1: Motivation -

Lectures: 20

Motivation: Concept, Importance, extrinsic and intrinsic motivation; Theories of Motivation - Maslow's Need-Hierarchy Theory; Herzberg's Two-factor theory, Douglas McGregor's Theory X and Theory Y and William Ouchi's theory Z.

Unit 2: Leadership

Lectures: 20

Leadership - Concept, Importance, Theories of Leadership -Likert's scale theory, Blake and Mouten's Managerial Grid theory, House's Path Goal theory. Leadership Styles- Autocratic, Democratic and Free rein. Leadership styles of Shivaji Maharaj, Mahatma Gandhi, Dr. Babasaheb Ambedkar.

Unit 3 :Co-ordination and Control: Lectures :10

Co-ordination – Concept – Need – Techniques of establishing co-ordination. Control-Concept, Process, Limitations .Principles of Effective Control. Techniques of Control –Traditional Modern.

Unit 4 :Emerging issues in Management:

Lectures: 10

Social and Ethical Issues in Management - Corporate Social Responsibility-Meaning and Importance. Concept & Social Responsibility – Corporate Social Responsibility – Meaning – Importance. Green Management – Management & Change – Concept, Need for Change –Lewins Kurtz's three Stages& Plane Change. Resistance to Change – Overcoming Resistance to Change.

Suggested Readings:

1. Harold Koontz and Heinz Weihrich, Essentials of Management: An International and Leadership Perspective, McGraw Hill Education.
2. Stephen P Robbins and Madhushree Nanda Agrawal, Fundamentals of Management: Essential Concepts and Applications, Pearson Education.
3. George Terry, Principles of Management, Richard D. Irwin
4. Newman, Summer, and Gilbert, Management, PHI
5. James H. Donnelly, Fundamentals of Management, Pearson Education.
6. B.P. Singh and A.K.Singh, Essentials of Management, Excel Books
7. Griffin, Management Principles and Application, Cengage Learning
8. Robert Kreitner, Management Theory and Application, Cengage Learning
9. TN Chhabra, Management Concepts and Practice, DhanpatRai& Co. (Pvt. Ltd.), New Delhi
10. Peter F Drucker, Practice of Management, Mercury Books, London
11. SharuRanganekar–In the World of Corporate Managers.
12. Organisation and Management- Dr. C.B. Gupta
13. Business Organisation and Management –M.C.Shukla
14. Essentials of Management- Koontz and O’ Donnell
15. Management: Stoner
16. Principles and Practice of Management- L.M. Prasad
17. Management: Moshal
18. Principles of Management- P.C. Tripathi and P.H.Reddy
19. Management- Principles and practice- Shriniwas&Chunawala
20. Principles of management: Terry,G.R.and Stephen Franklin

Equivalence

B. Com. Part-I – Semester I and II

Pre-Revised Course	Revised Course
1-PRINCIPLES OF BUSINESS MANAGEMENT Paper –I	1- Management Principles & Application Paper –I
2-PRINCIPLES OF BUSINESS MANAGEMENT Paper –II	2- Management Principles & Application Paper -II

UNITS & PERIODS ALLOTTED

Units No. of Periods

Unit - 1. 15

Unit - 2. 15

Unit - 3. 15

Unit - 4. 15

Total Periods 60

SHIVAJI UNIVERSITY, KOLHAPUR.



Estd 1962

NAAC 'A' Grade

Syllabus For

Bachelor of Commerce

B.Com. Part-I

CBCS Pattern

PRINCIPLES of MARKETING

Sem-I & Sem-II

Introduced from June 2018 and Onwards

(Subject to the modifications will be made from time to time)

Shivaji University Kolhapur
B. Com. (CBCS Pattern)
Part- I (Semester I)
PRINCIPLES of MARKETING Paper I
Generic Elective Course
Introduce from June-2018-19

Credits : 4

Objective : The objective of this course is to provide basic knowledge of concepts, principles , tools and techniques of marketing.

Unit : I Introduction : Nature, Scope and importance of marketing ; Evolution of marketing concepts; marketing environment.

(15 Hours)

Unit : II- a) Consumer Behaviour – An Overview : consumer buying process; factors influencing consumer buying decisions.

b) Market Selection : Market segmentation – concept, importance and bases: Target market selection; positioning concept and importance product differentiation vs. market segmentation. .

(15 Hours)

Unit : III – Rural marketing : Growing importance; Distinguishing characteristics of rural marketing ; Understanding rural consumers and rural markets. marketing mix planning for rural markets .

(15 Hours)

Unit : IV- Recent developments in marketing: Social Marketing, Online marketing, green marketing . Marketing Information System-concept and components: Marketing Research and its process. .

(15 Hours)

Shivaji University Kolhapur
B. Com. (CBCS Pattern)
Part- I (Semester II)
PRINCIPLES of MARKETING Paper II
Generic Elective Course

Credits : 4

Objective : The objective of this course is to provide basic knowledge of 4P's of marketing and retailing

Unit : I – Product : Meaning and importance. Product classifications; Concept of product mix; Branding, packaging and labeling; Product-Support; Product life-cycle; New Product Development. .

(15 Hours)

Unit : II –a) Pricing : Significance. Factors affecting price of a product. Pricing policies and Strategies.

b) Nature and Importance of promotion; promotion tools : advertising, personal selling, public relation & sales promotion -concept and their distinctive characteristics; Promotion mix and factors affecting promotion mix decisions. .

(15 Hours)

Unit : III –Distribution : Channels of distribution – meaning and importance; Types of distribution channels ; Wholesaling and retailing ; Factors affecting choice of distribution channel; Physical Distribution. Direct marketing and Services marketing- concept and characteristics.

(15 Hours)

Unit : IV – Retailing ; Types of retailing – store -based and non-store based retailing, chain stores, specialty stores, supermarkets, retail vending machines, mail order houses, retail cooperatives; Management of retailing operations; an overview; Retailing in India : changing scenario.

(15 Hours)

List of Reference Books -Principles of Marketing Paper-I &II
(Semester I & II)

- 1- Kotler Philip, Gary Armstrong, Prafulla Agnihotri and Ahsan UI Haque. Principles of Marketing. 13th edition. Pearson Education.
- 2- Michael, J. Etzel, Bruce J. Walker, William J Stantion and Ajay Pandit. Marketing Concepts and Cases. (Speical Indian Edition)
- 3- McCarthy, E Jerome and William D. Perreault, Basic Markting. Richard D. Irwin.
- 4- Lamb, Charles W, Joseph F. Hair, Dheeraj Sharma and Carl McDaniel Marketing :A South Asian Perspective Cengage Learning.
- 5- Pride William M. , D.C. Ferell. Marketing: Planning, Implementation & Control . Cengage Learning .
- 6- Majaro, Simon. The Essence of Marketing Perentice Hall, New Delhi
- 7- Zikmund William G and Michael D's Amico. Marketing :Creaing and Keeping Customers in an E- Commerce World. Thomson Learning.
- 8- Chhabra, T.N, and S.K. Grover. Marketing Management. Fourth Edition Dhanpat Rai & Company.
- 9- The Consumer Protection Act-1986.
- 10- Iacobucci and Kapoor, Marketing Management : A South Asian Perspective, Cengage Leaening

Note- Latest edition of text books may be used.

Equivalence in accordance with titles and contents of paper

(For CBCS semester pattern of B.Com. (Hons) .new syllabus)

Sr. No.	Title of Old Paper	Title of New Paper
1	PRINCIPLES of MARKETING Paper-I (Sem-I)	PRINCIPLES of MARKETING Paper-I (Sem-I)
2	PRINCIPLES of MARKETING Paper-II (Sem-II)	PRINCIPLES of MARKETING Paper-II (Sem-II)



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA
PHONE : EPABX-2609000 website- www.unishivaji.ac.in
FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094
शिवाजी विद्यापीठ, कोल्हापूर – 416004.
दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref./SU/BOS/Com & Mgmt./ 6032

Date : 17/06/2019

To,

The Principal
All Affiliated (Commerce & Management) College/Institutions,
Shivaji University, Kolhapur

Subject : Regarding syllabi and equivalence of B. Com. Part-II (Sem. III & IV)
Choice Based Credit System (CBCS) degree programme under the
Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. Com. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

Encl : As above

Copy to,

1. I/c Dean, Faculty of Commerce & Management
 2. Chairman, BOS under Faculty of Commerce & Management
 3. Director, BOEE
 4. Appointment Section
 5. P. G. Admission Section
 6. B. Com. Section
 7. Affiliation Section (U.G./P.G.)
 8. Computer Center/I.T.
 9. Eligibility Section
 10. Distance Education
 11. P.G. Seminar Section
- } for information
- } for information and necessary action.

SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

Faculty of Commerce & Management

Syllabus For

Bachelor of Commerce

B. Com. Part II

(Sem III & IV)

To be implemented from June 2019 onwards.

(Subject to the modifications that will be made from time to time)

Shivaji University, Kolhapur
B.Com (CBCS) Part-II (Semester-III)
Corporate Accounting Paper - I
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of issue and forfeiture of shares and re-issue of forfeited shares, discuss accounting treatment for redemption of preference shares and buyback of shares.
2. Demonstrate accounting for issue of debentures and redemption of debentures.
3. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013.
4. Practice the fundamental accounting process on Tally ERP.

Syllabus Contents

Unit I: Issue and forfeiture of shares, Re-issue of forfeited shares, Redemption of preference shares and Buyback of shares. (15 Periods)

Unit II: Issue and Redemption of Debentures (10 Periods)

Unit III: Preparation of Final Accounts of Companies. (15 Periods)

Unit IV: Practical of Fundamental Computerised Accounting (20 Periods)

- a) Introduction to Tally ERP.9, Technological Advantages, Getting Functional with Tally ERP.9, Tally ERP.9 Start-up, Mouse/Keyboard Conventions, Switching between Screen Areas, Quitting Tally ERP.9, Setting up of Company in Tally ERP.9,
- b) Create a Company- Select a Company, Alter a Company, Shut a Company, Creating Accounting Masters in Tally ERP.9, Chart of Accounts,
- c) Pre-defined Groups of Accounts, Groups- Creating Single Group, Creating Multiple Group, Displaying Group, Altering Group,
- d) Ledgers, Creating Single Ledger, Creating Multiple Ledger, Displaying Ledger, Altering Ledger, Voucher Entry in Tally ERP.9,
- e) Accounting Vouchers- Contra Voucher (F4), Payment Voucher (F5), Receipt Voucher (F6), Journal Voucher (F7), Purchase (F9), Sales (F8), Debit Note (Ctrl + F9), Credit Note (Ctrl + F8),
- f) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,
- g) Accounting Books and Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register and Day Book.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 9) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 10) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 11) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Shivaji University, Kolhapur
B.Com. (CBCS) Part-II (Semester-IV)
Corporate Accounting Paper - II
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of profit/loss prior to incorporation.
2. Compute the value of shares as per distinct methods and differentiate between them.
3. Simulate practice of accounting for liquidation of companies.
4. Practice the store accounting through Tally ERP.

Unit -I: Profit /Loss Prior to Incorporation. (15 Periods)

Unit-II: Valuation of shares: Intrinsic value method, Market value Method (Capitalization of profit and dividend basis) Fair value. **(10 Periods)**

Unit-III: Accounting for Liquidation of companies- Process of Liquidation under Insolvency and Bankruptcy Code, Preparation of Liquidator's Final Statement of Account. **(15 Periods)**

Unit-IV: Store Accounting with Practical using Tally. (20 Periods)

Theory:

- a) Basic Concepts of Store Accounting- Importance of Material Management and Inventory Control, Objectives of Inventory Control System, Functions and Duties of Store-keeper,
- b) Key Terms- Stock items, Category of item, Item Name, Unit of Measurement- Purchase Rate per Unit, Current Stock Quantity, Current Valuation Rate, Opening Stock Quantity, Opening Valuation Rate, Purchase Returns, Sales Returns
- c) Stock Valuation Methods- Source document, Types of Source documents, Purchase Invoice, Goods Received Note, Sales Invoice, Delivery Challan
- d) Tally Reports of Store Accounting- Bill-wise List of Stock Items, Stock Statement, Material Receipts/ Purchases Register, Material Issues/ Sales Register, Material Return Report, Slow Moving Items Report, Fast Moving Items Report.

Practical:

- a) Creating Inventory Masters in Tally.ERP 9, Stock Groups- Creating Single Stock Group, Creating Multiple Stock Group, Displaying Stock Group, Altering Stock Group,
- b) Units of Measure- Simple Units, Creating Simple Units, Displaying Units of Measure, Deleting Units of Measure
- c) Stock Items- Creating Single Stock Items, Creating Multiple Stock Items, Displaying Stock Items, Altering Stock Items,
- d) Voucher Entry in Tally.ERP 9- Purchase Voucher (F9), Sales Voucher (F8), Credit Note Voucher (Ctrl + F8), Debit Note Voucher (Ctrl + F9)
- e) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,

- f) Accounting Books & Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register, Day Book, Statistics,
- g) Inventory Books & Reports- Stock Summary, Stock Item Summary, Stock Group Summary, Exception Reports- Negative Stock, Negative Summary.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 12) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 13) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 14) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 15) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 16) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 17) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 18) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 19) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 20) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 21) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 22) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Nature of Question Paper
 B.Com. Part-II
 Under CBCS
 Subject: Corporate Accounting Paper-I (Semester-III)
 Core Course
 (Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- | | |
|---|---------|
| a) Question on Theory of Unit-1 Or Question on Theory of Unit-1 | 5 marks |
| b) Question on Problem of Unit-1 Or Question on Problem of Unit-1 | 5 marks |

Q.No.2 Short Answer Questions:

- | | |
|---|---------|
| a) Question on Theory of Unit-2 Or Question on Theory of Unit-2 | 5 marks |
| b) Question on Problem of Unit-2 Or Question on Problem of Unit-2 | 5 marks |

Q.No.3 Questions:

- | | |
|---|----------|
| a) Question on Theory of Unit-3 Or Question on Theory of Unit-3 | 5 marks |
| b) Question on Problem of Unit-3 Or Question on Problem of Unit-3 | 10 marks |

Q.No.4 Short Answer Questions:

- | | |
|---|---------|
| a) Question on Theory of Unit-4 Or Question on Theory of Unit-4 | 5 marks |
|---|---------|

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Nature of Question Paper
 B.Com. Part-II
 Under CBCS
 Subject: Corporate Accounting Paper-II (Semester-IV)
 Core Course
 (Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- | | |
|---|---------|
| c) Question on Theory of Unit-1 Or Question on Theory of Unit-1 | 5 marks |
| d) Question on Problem of Unit-1 Or Question on Problem of Unit-1 | 5 marks |

Q.No.2 Short Answer Questions:

- | | |
|---|---------|
| c) Question on Theory of Unit-2 Or Question on Theory of Unit-2 | 5 marks |
| d) Question on Problem of Unit-2 Or Question on Problem of Unit-2 | 5 marks |

Q.No.3 Questions:

- | | |
|---|---------|
| c) Question on Theory of Unit-3 Or Question on Theory of Unit-3 | 5 marks |
|---|---------|

d) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

b) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-III)
Fundamentals of Entrepreneurship- Paper-I
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To impart theoretical knowledge of Entrepreneurship
2. To develop Entrepreneurship qualities and skills
3. To acquaint students with Steps involved in the formation of Small Enterprises
4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Unit-I	Entrepreneur:- Evolution, Meaning and Definition, Functions, Qualities of successful entrepreneur, Types of Entrepreneur, Obstacles to become an Entrepreneur, Challenges before existing entrepreneur in modern era.	15 Hours
Unit-II	Entrepreneurship and Entrepreneurship Development: Concept, Definitions, Importance, Theories- Joseph Schumpeter's Theory of Innovation, Hagen's theory of Status Withdrawal, David McClelland's Need for Achievement theory, Knight's Risk Taking theory, Entrepreneurship Development- Concept and Process. Introduction, Functions and Performance of – EDI, MCED And DIC	15 Hours
Unit-III	Micro, Small and Medium Enterprises(MSME): Definition, Importance, Problems of MSME and Remedies, Government Policy and Support, Steps involved in the formation of Small Enterprises- Location, Clearances, Permits required, Formalities, Licensing and Registration Procedure.	15 Hours
Unit-IV	Recent Trends and Concepts in Entrepreneurship: Recent Trends- Start up, Stand up, Skill India, Make in India, Incubation Centre- Concept and Importance. Concepts- Sociopreneur, Edupreneur, Ecopreneur, Netpreneur, Intrapreneur(Only concept and Characteristics)	15 Hours

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-IV)
Fundamentals of Entrepreneurship- Paper-II
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To acquaint students with family business in India
2. To impart conceptual knowledge of Service and Agro Entrepreneurship
3. To aware students about Business Plan and Project Report
4. To inspire the students through successful stories of Entrepreneurs

Unit-I	Family Business: Meaning, Types, Advantages and Disadvantages of Family Business, Challenges before family business in India, Business Succession Planning, Making family business more effective.	15 Hours
Unit-II	Service and Agro Entrepreneurship: A) Service Entrepreneurship- Meaning and Concept, Role of Service sector in National Economy, Opportunities in Service sector. B) Agro Entrepreneurship- Meaning and Concept, Importance, Entrepreneurial Opportunities in Agro Sector, Challenges before Agro Entrepreneurship	15 Hours
Unit-III	Business Plan and Project Report: Meaning and Concept of Business Plan, Key elements of business plan. Meaning, Concept and classification of project. Project for Retail store, Beauty parlor, Oil Mill, Cold Storage, Eco friendly Bag production- Reasons for failure of project.	15 Hours
Unit-IV	Women Entrepreneurship and Successful Entrepreneurs Women Entrepreneur- Concept and causes of limited growth of women entrepreneurs in India. Successful Entrepreneurs- Male- Jeff Bezos(Amazon), Hanmantrao Gaikwad (BVG), Chitale Brothers (Chitale Dairy), Ramdas Mane (Mane Group of Industries) Female- Aditi Gupta (Whisper Girl), Chetana Gala-Sinha (Manadeshi Foundation), Vandana Luthra (VLCC),	15 Hours

Note – Industrial visit/ visit to EDP Institute is suggested to acquaint students about entrepreneurial knowledge.

A talk or interaction with entrepreneurial should be arranged.

B.Com.II
Semester III and IV (CBCS Pattern)
Fundamentals of Entrepreneurship Paper I & II
Nature of Question Paper

Instructions:**Total Marks: 50**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write short answers (Any two out of Three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of Three)	10 Marks

Equivalence

Sr.No.	Old Name	New Name
1	Fundamentals of Entrepreneurship Paper - I	Fundamentals of Entrepreneurship Paper - I
2	Fundamentals of Entrepreneurship Paper - II	Fundamentals of Entrepreneurship Paper - II

Reference Books:

1. Dynamics of Entrepreneurial Development and Management- by Vasant Desai
2. Udyojakata- by Prabhakar Deshmukh
3. Entrepreneurship Development in India- by C.B. Gupta and N.P. Shrinivasan
4. Entrepreneurship and Small Business Management- by Shukla M.B.
5. Entrepreneurial Development- by Dr. S.S. Khanka
6. Entrepreneurial Development- by Godron E. and Natrajan K.
7. Entrepreneurial Development- by Taneja Satish and Gupta S.L.
8. Current Trends in Entrepreneurship - by Mohan S. Elangovan R.
9. Project Preparation Appraisal, Implementation- by Prasanna Chandra
10. Formulation of a Project Report- by Vinod Gupta

Shivaji University, Kolhapur

Syllabus of B.Com

(Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM III

Money and Financial System (Paper No – 1)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Learners will be able to explain functions of money and measurement of money supply 2. Learners will understand the banking system and its functioning in India 3. Learners will understand the nature of banking business and business practices 4. Learners will understand the important recent trends in banking system 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Ability to explain monetary system in India 2. Ability to critical thinking on banking business 3. Ability to explain recent trends in Indian Banking 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	Introduction to Money 1.1 Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Blockchain Technology and Digital Currency 1.3 Approaches to the Money supply, RBI's Measures 1.4 Constituents and Factors affecting on Money Supply	13 Lectures
Unit-2:	Introduction to Banking 2.1. Meaning, Evolution and Functions of Commercial Banks 2.2. Types and features of banks - Commercial, Cooperative, Public and Private, Foreign, Payment Banks, Small Finance Banks, Local Area Banks etc 2.3. Principles of Banking Business and its importance 2.4. Process of Credit Creation and Its limitations	15 Lectures
Unit-3:	Banking Business and Practices 3.1. Meaning, Types and Features of Deposits Products of Banks 3.2. Meaning, Types and Features of Loan Products of Banks 3.3. Sources of Funds and Income for Banks 3.4. Changing Nature of Banking Business	17 Lectures
Unit-4:	New Trends and Recent Issues in Indian Banking 4.1 Micro Finance Institutions- Evolution, Functions and Importance 4.2 Types, Advantages and Disadvantages of Bank Mergers 4.3 Licensing and functioning of Payment Banks Small Finance Banks 4.4 Meaning, Causes and Remedies for NPA, Prompt Correctives Action	15 Lectures
Note: Bank visits and case studies on banking business should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin (2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015), Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi. 		

EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - I)	Money and Financial System (Paper - I)

Nature of question paper for semester III and IV (Paper No. I & II)

Attempt any five questions.

Total marks 50

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 10 |
| Q2. Broad question | 10 |
| Q3. Broad question | 10 |
| Q4. Broad question | 10 |
| Q5. Broad question | 10 |
| Q6. Broad question | 10 |
| Q7. Write short notes (any two out of three) | 10 |

Shivaji University, Kolhapur
Syllabus of B.Com
 (Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM IV

Money and Financial System (Paper No – 2)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Students will be able to use e-banking services 2. Students will be able explain working of RBI in India 3. Students will be able to provide consultancy and guidance for investment in financial markets 4. Students will be able to explain the business practices of NBFCs and AIFI 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Use of E-banking services 2. Able to provide Financial consultancy 3. Critical thinking about NBFCs and their effects 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	E-Banking Services 1.1 Meaning and features of E-Banking, Various Internet Banking Services 1.2 Credit and Debit Card : Features, importance & precautions 1.3 NEFT, RTGS, IMPS & Cheque Truncation System 1.4 Mobile Banking - Features, different Mobile Apps and Importance	17 Lectures
Unit-2:	Reserve Bank of India 2.1 Organizational Structure and Functions of RBI 2.2 Meaning and Objectives Monetary Policy 2.3 Instruments of Monetary Policy 2.4 Monetary Policy Committee; Issue of RBI's Autonomy & Section-7 of RBI Act 1934	12 Lectures
Unit-3:	Financial Markets 3.1 Structure and Importance of Financial System 3.2 Features and structure of Money Market in India, Role of RBI 3.3 Features and structure of Capital Market in India, Role of SEBI 3.4 Reforms in Indian Money Market and Capital Market	17 Lectures
Unit-4:	All India Financial Institutes and NBFCs 4.1 Administrative Structure, Functions and Role of NABARD and SIDBI 4.2 Administrative Structure, Functions and Role of NHB and EXIM Bank 4.3 Meaning, Features, Types and Growth of NBFCs 4.4 Mutual Fund - Meaning, Types and Importance	15 Lectures
Note: Visits to financial institutes and financial consultancy firms should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin(2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015),Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Gupta, L.C (1997),Stock Exchange Trading in India; Society for Capital Market Research and Development 6. Sethi Jyotsna and Bhatia Nishwan (2003),Elements of Banking and Insurance, Prentice Hall of 		

<p>India, New Delhi</p> <p>7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited</p> <p>8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.</p>
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EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - II)	Money and Financial System (Paper - II)

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus B.COM.
SEMESTER - III
MACRO ECONOMICS – PAPER- I
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

- 1 The macro variables and components of macro economics
- 2 The relevance of national income concepts and its applications in economic policy making.
- 3 Changing value of money and its impacts on economy.
- 4 The output and employment generation process through investment and consumption.

UNIT -1	Introduction to Macro Economics 1.1 Meaning, Nature and Scope 1.2 Significance of Macro Economics 1.3 Limitations of Macro Economics 1.4 Macro Economic Variables	15
UNIT -2	National Income 2.1 Meaning and concepts- GDP, GNP, NNP, Personal and Disposable income, Per capita Income, National income at current and constant prices. 2.2 Methods of computing National Income- Product, Income and Expenditure methods 2.3 Difficulties in computing National Income 2.4 Applications of National Income Data	15
UNIT -3	Value of Money 3.1 Concept of Value of Money 3.2 Quantity Theory of Money-, Transaction Approach, Cash Balance Approach 3.3 Inflation-Causes of Inflation, Inflation and interest rates, Social cost of Inflation, Remedies to control of inflation. 3.4 Index Number – Meaning, Construction of Simple and Weighted Index Numbers.	15
UNIT -4	Output and Employment 4.1 J.B. Say's Law of Market 4.2 Keynesian Theory of Employment 4.3 Consumption Function - Concept and Types, Factors influencing consumption function 4.4 Investment Function- Marginal Efficiency of Capital, Investment Multiplier	15

References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, Harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, George Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewett K.K., (2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, Tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jayprakash Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the paper

Title of Old Paper	Title of New Paper
Business Economics Paper III	Macro Economics Paper I

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus
B.COM.
SEMESTER - IV
MACRO ECONOMICS – PAPER- II
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

1. The trade cyclical phenomenon in the economy and they will be able to take practical decisions at their business level in future.
2. Public finance system of state and its impact on economy and citizens of the nation.
3. The trade and business practices through international trade theories and other relevant concepts.
4. The international monetary exchange system and determination of rate exchange.

UNIT -1	Trade Cycles 1.1 Meaning Features and Types 1.2 Phases of Trade Cycles 1.3 Theories of Trade Cycles – Hawtrey and Schumpeter 1.4 Control of Trade Cycles	15
UNIT -2	Public Finance 2.1 Meaning, Nature and Scope, The Principle of Maximum Social Advantage 2.2 Public Revenue- Meaning, Tax Revenue-Direct and Indirect Taxes - Merits and Demerits, Concept of Goods and Service Tax (GST), Non-Tax Revenue Sources 2.3 Public Expenditure- Causes of growth and effects 2.4 Public Debt – Forms and Effects, Deficit Financing- Objectives and limitations.	15
UNIT -3	International Trade 3.1 Concept of Trade, Internal and International Trade 3.2 Advantage and Disadvantage of International Trade, Ricardian Theory of International Trade, Terms of Trade – Meaning, Types and its influencing factors. 3.3 Balance of Payments – Causes of disequilibrium, Measures to correct disequilibrium. 3.4 Concepts of Free Trade and Protective Trade	15
UNIT 4	Rate of Exchange 4.1 Concept of Rate of Exchange 4.2 Types – Fixed, Flexible , Spot and Future rate of exchange 4.3 Purchasing Power Parity Theory	15

	4..4 Modern Theory of rate of exchange	
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References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, Georg Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewtt K.K.,(2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jaypraksh Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the papers

Title of Old Paper	Title of New Paper
Business Economics Paper IV	Macro Economics Paper II

Nature of Question Paper for paper III and IV**Total Marks: 50****Attempt any five questions out of seven**

- | | |
|--|----|
| Q.1 Write short answers (Any two out of three) | 10 |
| Q.2 Broad question | 10 |

Q.3 Broad question	10
Q.4 Broad question	10
Q.5 Broad question	10
Q.6 Broad question	10
Q.7 Write short notes (Any two out of three)	10

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)
June 2019 Onwards

Course Objectives:

- To enable the students to develop communication skills in English, both oral and written.
- To equip the students with the language skills for use in their personal, academic and professional lives.
- To develop the students essential employability skills.
- To help the students to enter the job market with confidence and the ability to work effectively.
- To help the students to learn and practice both language and soft skills.
- To encourage the active involvement of students in learning process.
- To enable the students to cultivate a broad, human and cultured outlook.

CONTENTS
Semester III (Paper C)

Module I

- A) Oral Skills
- B) Phenomenal Woman – **Maya Angelou**

Module II

- A) Conversation Skills
- B) The Childless One – **Jai Nimbkar**
- C) Those Winter Sundays – **Robert Hayden**

Module III

- A) English for Competitive Examination – I
- B) Four Minutes that get you Hired
–**Connie Brown Glaser and Barbara Steinberg Smalley**

Module IV

- A) Stormy Arrival in South Africa – **Mohandas Karamchand Gandhi**
- B) The Road Not Taken – **Robert Frost**

Semester IV (Paper D)

Module V

- A) E-Communication
- B) Breathing Spaces – **Rana Nayar**

Module VI

- A) English for Competitive Examination – II
- B) My Financial Career – **Stephen Leacock**

Module VII

- A) English for Banking and Industries
- B) Senior Payroll – **William E. Barrett**

Module VIII

- A) The Verger – **Somerset Maugham**
- B) I Am the People, the Mob – **Carl Sandburg**
- C) One Day I Wrote Her Name – **Edmund Spenser**

Pattern of Question Paper

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)

PATTERN OF QUESTION PAPER (June 2019 Onwards)

Semester III (Paper C)

Total Marks 50

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on ORAL SKILLS	Module I A	05
	B.	Question to be set on ORAL SKILLS	Module I A	04
Q.4.	A.	Question to be set on CONVERSATION SKILL	Module II A	04
	B.	Question to be set on CONVERSATION SKILL	Module II A	04
Q.5	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	05
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	04

Semester IV (Paper – D)**Total Marks 50**

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on E-COMMUNICATION	Module V A	05
	B.	Question to be set on E-COMMUNICATION	Module V A	04
Q.4.	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
Q.5.	A.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	05
	B.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	04

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – III)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-I)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Explain the scope of statistics in business, perform classification and tabulation, and represent the data by means of simple diagrams and graphs.
2. Explain and apply sampling techniques in real life.
3. Summarize data by means of measures of central tendency and dispersion.
4. Explain the merits and demerits of various measures of central tendency and dispersion.
5. Perform analysis of bivariate data using simple correlation and simple linear regression.

Unit 1: Introduction to Statistics

(15)

- 1.1 Meaning of Statistics, Scope of Statistics in business.
- 1.2 Primary and secondary data, Discrete and continuous variables, Classification and its basis, Frequency and frequency distribution, Tabulation.
- 1.3 Diagrammatic representation: pie-chart, simple bar diagram, Graphical representation: histogram, ogive curves, Numerical problems.
- 1.4 Sampling: Definitions of population, sample, sampling, and census, Principle steps in sample survey, Advantages of sampling over census, Methods of sampling: simple random sampling (with and without replacement), stratified random sampling.

Unit 2: Measures of Central Tendency

(15)

- 2.1 Concept of central tendency, Requirements of a good average.
- 2.2 Arithmetic mean (A. M.): Definition, Properties of A. M. (without proof), Combined A. M., Merits and demerits, Numerical problems.
- 2.3 Median and quartiles: Definitions, Merits and demerits of median, Numerical problems.
- 2.4 Mode: Definition, Merits and demerits, Empirical relation among mean, median, and mode, Numerical problems.

Unit 3: Measures of Dispersion

(15)

- 3.1 Concept of dispersion, Requirements of a good measure of dispersion, Absolute and relative measures of dispersion.
- 3.2 Range, Coefficient of range, Merits and demerits of range, Numerical problems.
- 3.3 Quartile deviation (Q. D.), Coefficient of Q. D., Merits and demerits of Q. D., Numerical problems.
- 3.4 Standard deviation (S. D.), Coefficient of S. D., Coefficient of variation, Variance, Merits and demerits of S. D., Numerical problems.

Unit-4: Analysis of Bivariate Data: Correlation and Regression**(15)**

- 4.1 Concept of correlation, Types of correlation.
- 4.2 Methods of studying correlation: Scatter plot, Karl Pearson's correlation coefficient (r), Interpretation of r (with special cases $r = -1, 0,$ and 1), Spearman's Rank correlation coefficient (R), Numerical problems on computation of r and R (with and without ties) for ungrouped data.
- 4.3 Concept of regression.
- 4.4 Lines of regression, regression coefficients, relation between correlation coefficients and regression coefficient, Numerical problems on ungrouped data.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – IV)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-II)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Compute unconditional and conditional probabilities and apply laws of probabilities.
2. Identify the applications of Binomial and normal distributions.
3. Measure trend and seasonal variations in time series data.
4. Compute and interpret simple and weighted index numbers.
5. Construct and apply variable and attribute control charts.

Unit 1: Probability and Probability Distributions (15)

- 1.1 Definitions of random experiment, sample space, event, equally likely events, mutually exclusive events, independent events, Classical definition of probability.
- 1.2 Definition of conditional probability, Addition and multiplication laws of probability (without proof), Numerical problems (without use of permutation and combination).
- 1.3 Binomial distribution: Probability mass function, Mean and variance (without proof), Simple numerical problems to find probability and parameters.
- 1.4 Normal distribution: Probability density function, Mean and variance (without proof), Properties of normal curve, Standard normal distribution, numerical problems to find probabilities for given area under standard normal curve.

Unit 2: Time Series Analysis (15)

- 2.1 Definition and uses of time series.
- 2.2 Components of time series.
- 2.3 Methods of measuring trend: method of semi-averages, method of moving averages, and method of least squares, Numerical problems.
- 2.4 Measurement of seasonal variations using simple average method, Numerical problems.

Unit 3: Index Numbers (15)

- 3.1 Need, meaning, and uses of index numbers, Applications of index numbers in share market, Price, quantity, and value index numbers.
- 3.2 Simple index numbers by simple aggregate method and simple average of relatives method (using A. M.), Numerical problems.
- 3.3 Weighted index numbers by Laspeyre's, Paasche's, and Fisher's formulae, Numerical problems.
- 3.4 Problems involved in construction of index numbers.

Unit 4: Statistical Quality Control**(15)**

- 4.1 Concept of statistical quality control (SQC), Advantages of SQC, Types of variability: chance cause variability and assignable cause variability.
- 4.2 Shewhart control chart and its construction.
- 4.3 Variable control charts: mean (\bar{X}) and range (R) charts, Numerical problems.
- 4.4 Attributes control charts: control chart for number of defectives (np -chart) for fixed sample size and control chart for number of defects per unit (c -chart), Numerical problems.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper VI
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To understand the process and procedure of the Income Tax Act, 1961
2. To impart theoretical knowledge of Income Tax
3. To acquaint students with post Assessment procedure and TDS provisions and procedure.

Unit – I	Income Tax Payment and fine of interest – a) Advance Tax b) Interest payable under section 234 ABC	10 Hours
Unit – II	Assessment Procedure – Inquiring before Assessment – Assessment U/S 143(1), Regular Assessment of U/S 143(2), Best Judgement Assessment, Income escaped Assessment, issue of notice where income has escaped assessment, Time Limit for notice, Time limit completion of Assessment, Re-assessment	20 Hours
Unit – III	Post Assessment Procedure – a) Refund – who can claim refund, form no 16 for refund, Time limit for claiming refund, refund on appeal interest refund b) Rectification of mistake c) Appeals and revisions – when an assessee can file appeal appellate authorities, procedure for filling appeal, filling appeal, Revision by Income Tax commissioner d) Penalties and Procedure – Procedure for impressing penalties, Waiver of penalty nature of default and panlties impossible.	20 Hours
Unit – IV	TDS provisions and Procedure – including TDS Tax collection of source provision and procedures.	10 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VIII
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of TDS, TCS, Penalties and prosecutions
2. To develop the skills of solving practical problems of TDS and TCS
3. To acquaint students with recent terms and conditions in Income Tax

Unit – I	TDS – Scheme of tax deduction at source, deduction of tax from salaries, interest other than interest on securities, winnings from horse races, from payments to contractors or sub contractors, from insurance commission, from commission or brokerage, from income by way of rent, on purchase of immovable property and on professional fees.	20 Hours
Unit – II	TCS – Scheme of tax collection at source, applicability, persons liable to collect TCS, rates of TCS and relevant provisions.	10Hours
Unit – III	PENALTIES & PROSECUTIONS – Penalties for default in brief, penalty for concealment / under-reporting of Income, procedure for imposition of penalty and time-limit for completion of penalty proceedings.	20 Hours
Unit – IV	PRACTICAL PROBLEMS ON TDS & TCS – Problems on calculation of TDS & TCS	10 Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - Income Tax
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice Income Tax Paper VI (Vocational)	Tax Procedure and Practice Income Tax Paper VI (CBCS)
2	Tax Procedure and Practice Income Tax Paper VIII (Vocational)	Tax Procedure and Practice Income Tax Paper VIII (CBCS)

Reference Books :

1. Students guide to Income Tax - Taxman
2. Direct Tax ready reckoner - Vinod Sighaniya
3. Income Tax - P.M. Herekar

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper V
Title of Paper – GST (SGST, IGST & CGST)
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of GST
2. To help students solve practical problems in GST
3. To acquaint students with the latest concepts and terms in GST.

Unit – I	Schedules under the Act(Schedule I.II and III under GST Act 2017) Levy & Collection of Tax (Scope of supply, Composite & mix supply, levy & collection)	10 Hours
Unit – II	Time & value of supply (Time of supply of goods, Time of supply of service, Value of Taxable supply schedules)	10 Hours
Unit – III	Determination of nature of Supply (Inter state Supply, Intra-state supply, Supplies in territorial water. Sec 7,8,9 of IGST Act) Sec. 10 & 11 of IGST Act Sec-10 Place of Supply of Goods other than supply of goods imported into, or exported from India. Sec. 11 – Place of Supply of Goods imported into or exported from India.	10 Hours
Unit – IV	Basic Problems – Problems to calculate SGST & CGST & Time & Value of supply.	30 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VII
Title of Paper – GST
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To make aware the students regarding new amendments made in the Indirect taxation system of India i.e. GST
2. To give practice approach and implementation of GST provisions
3. To make aware about the key aspects under GST like place of supply of goods and services
4. To enhance the knowledge of students with the practical solutions and case studies under GST.

Unit – I	Composition levy (Conditions, applicability, Composition rate of tax etc. Reverse Charge Mechanism (RCM) – Applicability, Conditions	10 Hours
Unit – II	Input Tax Credit (Eligibility & conditions for taking Input Tax credit apportionment of credit & blocked credit)	20 Hours
Unit – III	Sec 12 - Place of Supply of Goods or services or both. (Place of supply of services, where location of supplies & recipient in India. Sec 13 - Place of Supply of services where location of supplier where location of supplier or location of recipient is outside India	20 Hours
Unit – IV	Basic Problems – Time of supply, value of supply, place of supply & ITC	10Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - GST
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice GST (SGST, IGST & CGST) Paper V(Vocational)	Tax Procedure and Practice GST Paper V (CBCS)
2	Tax Procedure and Practice GST Paper VII (Vocational)	Tax Procedure and Practice Income Tax Paper VII (CBCS)

Reference Books :

1. GST made simple - Taxman
2. A birds eye view - Jain and Jha
3. Basics of GST - Taxman
4. GST guide for students - CA Vivek Agarwal

SHIVAJI UNIVERSITY, KOLHAPUR.



NAAC 'A' Grade

Faculty of Commerce and Management

Syllabus For

B. Com. Part – III (Sem V & VI) (CBCS)

(To be implemented from June 2020 onwards)

(Subject to the modifications that will be made from time to time)

Shivaji University, Kolhapur
B.Com (CBCS Pattern) Part – III (Semester-V)
Modern Management Practice- Paper-I

Core Course

Introduced From June- 2020

Credit - 4

Objectives:

1. To impart knowledge of modern management
2. To understand concepts of CRM
3. To know the concepts of emotional and social intelligence
4. To understand the concept of lean and talent management

Unit-I	<p>Contribution to Modern Management Practice</p> <ol style="list-style-type: none"> a. Concept of Modern Management b. Contribution of Vijay Govindarajan: Three Box Solution and Reverse Innovation c. Contribution of C.K. Prahalad : The Fortune at the Bottom of the Pyramid. d. Michael Porter : competitive advantage. 	15 periods
Unit-II	<p>Emotional and Social Intelligence in Management</p> <ol style="list-style-type: none"> a. Emotional Intelligence: Concept, Components, Importance of emotional intelligence in leadership, Advantages and Disadvantages of emotional intelligence, emotional intelligence skills b. Social intelligence: Concept, Importance, Advantages and Disadvantages of social intelligence, Models of emotional and social intelligence: 	15 periods
Unit-III	<p>Customer Relationship Management (CRM) and Supply Chain Management (SCM)</p> <ol style="list-style-type: none"> a. Customer Relationship Management (CRM) : Concept, Importance, Elements, Process, e-CRM b. Supply Chain Management (SCM): Concept, Importance, Components, Process, Benefits of SCM 	15 periods
Unit-IV	<p>Lean Management and Talent Management</p> <ol style="list-style-type: none"> a. Lean Management: Concept, Principles, Benefits and disadvantages, tools of lean Management, lean management best practices b. Talent Management: Concept, Importance, Process, Components, benefits 	15 periods

Shivaji University, Kolhapur

B.Com (CBCS Pattern) Part – III (Semester-VI)

Modern Management Practice- Paper-II

Core Course

Introduced From June- 2020

Credit - 4

Objectives:

1. To impart knowledge of total quality management
2. To understand the Japanese and Chinese Management Practices
3. To know the concept of Event and Performance Management
4. To understand the concept of time and stress management

Unit-I	Total Quality Management (TQM) and Quality Standards a. Total Quality Management (TQM) : Concept, Principles, Elements of TQM, Benefits and Disadvantages of TQM b. Quality Standards: Benchmarking(concept and types) Six Sigma,(concept and levels) ISO: 9000, (Importance and elements)	15 periods
Unit-II	Japanese and Chinese Management Practice a. Japanese Management: Concept, Characteristics and 8 Key Japanese Quality Management techniques b. Chinese management: Concept, Characteristics, Chinese Leadership Style, Difference between Chinese and Western Management	15 periods
Unit-III	Event and Performance Management a. Event Management: Concept, Importance, Procedure, Types of events, benefits of event Management b. Performance Management : Concept, Evolution, Need, Process of Performance Management	15 periods
Unit-IV	Time and Stress Management a. Time Management: Concept, Importance, Techniques b. Stress Management: Meaning of Stress, Causes, Effects, Techniques of stress management	15 periods

Paper I : CC-C3 : Business Regulatory Framework

Credit –I	Law of Contract- 1872	Hours
	Definition of Business Law and its sources Definition of contract, Essential element and Kinds of Contract Offer and Acceptance, Capacity of Parties, Consideration, Free Consent and Legality of objectives, Void Contracts Discharge of Contract, Remedies for breach of contract	15 Hrs
Credit-II	Labour Laws	15 Hrs
	A) Employees Provident Fund Act- 1952- Meaning and its applicability criteria, Rates of Contribution , Periodicity of Payment and Return, Mandatory Records, Consequences of Non compliances	5 Hrs
	B) Employees State Insurance Act-1948- Meaning and its applicability criteria, Rates of Contribution , Periodicity of Payment and Return, Mandatory Records, Consequences of Non compliances	5 Hrs
	C) Payment of Gratuity (Amendment)Act-2018- Meaning and its applicability criteria, Rates of Contribution , Payment calculation, Mandatory Records, Consequences of Non compliances	5 Hrs
Credit-III	Sale of Goods Act,1932 and Goods and Services Tax(GST)	15 Hrs
	A) Sale of Goods Act- Contract of Sale of goods concept and essentials, Sale and Agreement to sell, Conditions and Warranties, Performance of Contract of Sale	10 Hrs
	B) Goods and Services Tax- Basic framework of GST, Applicability criteria, General understandings of legal provisions regarding invoices, GST Returns , Consequences of Non compliances	5 Hrs
Credit- IV	Indian Partnership Act-1932 and Limited Liability Partnership Act-2008	15 Hrs
	A) Indian Partnership Act-1932- Partnership Deed meaning and general terms and conditions, Role and Responsibilities of Partners.	5 Hrs
	B) Limited Liability Partnership Act- 2008- Nature and Silent features of LLP, Incorporation of LLP, Limitations of liability of LLP and Partners, Difference between Partnership and LLP.	10 Hrs

Reference-

- 1) Business Law- Kavita Krishnamurthi
- 2) Essentials of Business and Industrial Laws- B.S. Moshal
- 3) Business Law- M.C. Kuchhal
- 4) Elements of Mercantile Law- N.D. Kapoor
- 5) Mercantile Law- Arun Kumar
- 6) Mercantile Law- S.S.Gulshan
- 7) The Principles of Mercantile Law- Avtarsingh
- 8) Commercial and Industrial Law-A.K. Sen and J.K. Mitra
- 9) Textbook on Indian Partnership Act with Limited Liability Partnership Act- by Madhusudan Saharay
- 10) GST – Law and Procedure by Anananday Mishra – Taxman

Paper II : CC-C4 : Business Regulatory Framework

Credit- I	Company Act- 2013 Meaning, Features and Types of Company, Process of Incorporation of Company, Role, Responsibilities and Powers of Directors, Auditors and Company Secretary. Rights of Share holders, Company meetings and Resolutions Winding up of Company	15 Hrs
Credit-II	Security Exchange Board of India Act-1992, Consumer Protection Act-1986 and Competition Act-2002	15 Hrs
	A) Security Exchange Board of India Act-1992(SEBI)- Role , Powers and Functions of SEBI, Listing and Trading of Securities	5 Hrs
	B) Consumer Protection Act-1986- Definitions- Consumer, Complaint, Complainant, Unfair Trade Practices, Restrictive Trade Practices, Rights of Consumer, Consumer Redressal Agencies- Composition and Jurisdiction.	5 Hrs
	C) Competition Act-2002- Objectives, Powers and duties of Competition Commission	5 Hrs
Credit-III	Business Transactions and Cyber Laws	15 Hrs
	a) E-commerce: Nature, formation, legality and recognition b) Intellectual Property Rights: Patent, Copy Right, Trademark and Industrial Design (only concepts) c) Digital Signature: Need, formation, functions, Digital Significance Certificate and Revocation of Digital Signature d) Cyber crimes and offences e) Penalties for cyber crimes	
Credit-IV	Negotiable Instrument (Amendment) Act-2015	15 Hrs
	Meaning and Features of Negotiable instrument, Kinds of Negotiable instrument, Promissory Note, Bill of Exchange and Cheque, Crossing of Cheque and Its kinds- Dishonour of Negotiable instrument and its consequences and Remedies thereon	

Reference Books:

- 1) Business Law- M.C. Kuchhal
 - 2) Business Law- KavitaKrishanmurthi
 - 3) Cyber Laws- Dr. Farooq Ahmed
 - 4) Elements of Company Law- V.S. Datey
 - 5) The Consumer Protection Act- ArshadSubzawari
 - 6) The Consumer Protection Act- C.M. Dhopare
 - 7) Cyber Laws- Krishna Kumar
 - 8) Consumer Protection Act- Niraj Kumar
 - 9) SEBI Act- Agarwal and Baby- Taxman
 - 10) Competition Act- Dr.Rattan- Bharat Publication
- Concerned Bare Act should be referred

Nature of Question Paper

Total Marks-40

Instructions – 1) All questions carry equal marks.

2) Attempt any FIVE Questions out of seven

Q.1	Short Notes (Any Two)	4 Marks Each
Q.2	Long Answers	8 Marks
Q.3	Long Answers	8 Marks
Q.4	Long Answers	8 Marks
Q.5	Long Answers	8 Marks
Q.6	Long Answers	8 Marks
Q.7	Short Answers (Any Two)	4 Marks Each

B.Com. Part-III; SEM-V - Under CBCS
Paper-I : CC-C5 : Cooperative Development

Course Outcomes:

1. To study the meaning and principles of Co-operation.
2. To study the agricultural and Non-agricultural Credit Co-operative institutions.
3. To study the Co-operative credit system
4. To Study the important cooperative organizations

Expected Skills Impartation

1. Ability to explain cooperatives principles
2. Ability to applications of cooperative principles
3. Interpretation and comparison of different cooperative organizations

Marks : 40

Total Lectures of Teaching : 60

Credits : 4

Unit-1:	Introduction to Co-operative movement in India 1.1. Meaning, definition and features of Co-operation. 1.2. Principles of Co-operation - ICA and Manchester Principles 1.3. Role of Co-operation in economic development. 1.4. Review of Committees on Cooperative Development since 1991 (Vaidhyathan Committee, Shivajirao Patil Committee and Kuraian and Alagh Committee)	15 Periods
Unit-2:	Agricultural Co-operatives in India 2.1. Co-operative Marketing- Types, functions, problems and remedies 2.2. NAFED- Objectives, Management, Functions and Progress 2.3. Co-operative Farming - Types, problems and remedies 2.4. Role of Dairy Cooperatives - National Dairy Development Board.	15 Periods
Unit-3:	Co-operative Banking & Credit Societies in India 3.1. Review of Co-operative credit movement - Three Tier and Two Tier Structure 3.2. Primary Agricultural Cooperative Societies -Functions, Problems and Remedies 3.3. DCC Banks - Administrative Structure, Progress, Problems and Remedies 3.4. State Cooperative Banks - Administrative Structure, Progress, Problems and Remedies	15 Periods
Unit-4:	Important Cooperative Organizations in India 4.1. Urban Cooperative Banks - Types, Management, Progress and Problems 4.2. Non-Agriculture Credit Cooperatives - Functions and Problems 4.3. Consumer Cooperatives - Types, Role and Problems 4.4. Sugar Co-operatives - Role, Progress, problems and remedies	15 Periods

References :

1. Dwivedi Ramesh Chandra, (2005), 'Hundred Years of Cooperative Movement in India'-Centre for Promotion of Cooperativism
2. Garg M. C. And Joshi N. N., (2009), 'Cooperative Credit And Banking –Strategies For Development', Deep And Deep Publication, New Dehli-110027
3. Hajela T.N., (1994) Cooperation: Principles, Problems and Practice, Konark Publishers, New Delhi.
4. Krishnaswamy O.R. and Kulandhiswamy V., (2000) Cooperation: Concept and Theory, Arudra Academy,
5. Kulkarni P. R. (2007) Laws of Co-operative Banking', Macmillan Publisher India Ltd. pp. 24-25 (2007)
6. Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit <http://www.mahanand.in/>
7. NAFED <http://www.nafed-india.com>
8. Nakkiran S (2006) Cooperative Management : Principles and Techniques, Deep and Deep, New Delhi, 2006
9. National Dairy Development Board- <https://www.nddb.coop/>
10. Review of Co-operative Movement in India's Agricultural Credit Department, RBI. pp. 59-60, (1955)
11. Strickland C.F., (2010) 'An Introduction To Cooperation In India' Humphery Milford Oxford University Press.
12. The Maharashtra Co-operative Quarterly, The Maharashtra Rajya Shahakar Sanghah

B.Com. Part-III; SEM-VI - Under CBCS
Paper-II : CC-C6 : Cooperative Development

Course Outcomes:

1. To study the cooperative legislations and fund management
2. To understand the institutional arrangement for cooperative education and training
3. To understand the nature, registration, legislation and audit of housing cooperatives
4. To understand the cooperative audit system and provisions

Expected Skills Impartation

1. Legal understanding and interpretation skills
2. Ability to explain legal and technical provisions about cooperatives

Marks : 40

Total Lectures of Teaching : 60

Credits : 4

Marks : 40	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	Cooperative Laws and Legislation In India 1.1. Important Provisions under Maharashtra Co-operative Societies Act, 1960 1.2. Salient Features of Multi-State Co-operative Societies Act 2002 1.3. Liquidation Process- Appointment, Rights and Duties of Liquidator 1.4. Legal Provisions regarding Assets and Fund Management of Cooperatives - (Classification of Funds, Profit, Reserve Fund, Dividend, Expenses on social Activities, Investment of Funds etc)	15 Periods
Unit-2:	Cooperative Education and Training In India 2.1. Need and Importance of Cooperative Education and Training 2.2. National Council for Cooperative Training- Organizational Structure & Functions 2.3. VAMNICOM -Objectives, Centers, Training Programmes 2.4. Career Opportunities in Cooperative Sector - GDC&A Certification	15 Periods
Unit-3:	Cooperative Housing Societies In India 3.1. Meaning, Types and Registration Process of Housing Cooperatives 3.2. Maharashtra Co-operative Housing Society Model Bye Laws 3.3. Importance and Problems of Housing Societies 3.4. Audit of Co-operative Housing Societies- Nature and Elements	15 Periods
Unit-4:	Cooperative Registrar & Audit In India 4.1. Powers and responsibilities of registrar 4.2. Cooperative Audit - Concept, Scope, Types of Audits 4.3. Internal Audit-Nature- Duties of Internal Auditor 4.4. Responsibilities and powers of cooperative auditor	15 Periods

References :

1. Hajela T.N., (1994) Cooperation: Principles, Problems and Practice, Konark Publishers, New Delhi.
2. Indian Institute of Banking And Finance, (First Pub. 2007), 'Law of Cooperative Banking', Macmillan India Ltd. New Delhi
3. Kulkarni P. R. (2007) Laws of Co-operative Banking', Macmillan Publisher India Ltd. pp. 24-25 (2007)
4. Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit <http://www.mahanand.in/>
5. Review of Co-operative Movement in India's Agricultural Credit Department, RBI. pp. 59-60, (1955)
6. Maharashtra Co-operative Societies Act, 1960
7. Maharashtra Co-operative Societies Act, 1960 by G. M.Divekar (Vol-I and II)
8. National Cooperative Development Corporation (NCDC) - <http://www.ncdc.in>
9. National Cooperative Housing Federation of India- <https://www.nchfindia.net/>
10. National Federation of State Cooperative Banks Ltd -http://nafscob.org/about_f.htm
11. National Cooperative Consumers' Federation Of India Limited- <http://nccf-india.com/>
12. National Council for Cooperative Training- <http://ncct.ac.in>
13. Dhananjayrao Gadgil Institute of Cooperative Management -<http://www.dgicmnagpur.com>

EQUIVALENCE OF THE PAPERS / COURSES

Sr	Existing title of the Paper	Revised Title of the paper
1	Co-operative Development Paper – I	Co-operative Development Paper – I
2	Co-operative Development Paper – II	Co-operative Development Paper – II

Nature of question paper for B.Com -III Co-operative Development

Semester V & VI (Paper No. I to II)

Attempt any five questions.

Total marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com Part III Semester – V (CBCS)

Paper I : CC-C7 : Business Environment

(Indian Economic Environment)

(Compulsory Paper)

Credits : 4

COURSE OUTCOMES:

- 1 Student should be able to understand the significance and position of Indian economy at the world level.
- 2 Students should study the scenario of agricultural and industrial sectors.
- 3 Student should be aware regarding Indian economy is facing some of the fundamental economic problems. They should be able to make plans and solutions to these being as a citizen.
- 4 Student should understand the correlations between economical and social problems.

Unit No.	Unit Name	Periods
1	Business Environment 1.1 Concept 1.2 Components 1.3 Importance 1.4 Business environment and sustainable development	15
2	Agricultural Development 2.1 Present status of Indian Agriculture and Agricultural crisis 2.2 Agricultural Marketing-Problems, Agricultural price policy 2.3 Food security in India 2.4 National Commission on farmers- Agricultural Renewal Action Plan	15
3	Industrial Development 3.1 Industrial policy -1991 3.2 Concepts of Micro, Small and Medium Enterprises (MSMEs) 3.3 Progress of industrial sector in globalization era 3.4 Trade union movement – Problems and measures.	15
4	Problems of Indian Economy 4.1 Features of Indian population 4.2 Unemployment and poverty – causes and remedies 4.3 Inequality of Income and wealth, Black Money - Causes and remedies 4.4 Problems of rural and urban economy	15

References –

1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3rd ed. New York Wiley
2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore
3. Yarbrough B V (2005) The World Economy: Trade and Finance, 7th Ed Thomas south western USA
4. Manab Adhikari, Global (2006) Business Management(An International economic environment), Macmillan India Ltd
5. Hill C.W. L. and Jain A. K.(2007) International Business Competing in Global market Place, McGraw Hill New Delhi
6. Graham John L, Salwan Prashant, Cateora Philip R, (2008) International Marketing 13th Ed. Tata McGraw- Hill,
7. Jeevnandam C. International Business S.Chand New Delhi 2008
8. Paul Justein International Business, 5th Ed (2011) Prentice Hall of India, Pvt Ltd new Delhi
9. Keegan Warren J. and Green Mark C. Global Marketing, 4th Ed.(2009) Prentice Hall India, Pvt Ltd
10. Bhalla V. K. and Ramu S.S.(2009) International Business Environment, Anmol Prakashan New Delhi
11. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24th Ed S.Chand New Delhi.

12. Dutt and Sundaram K P M, Indian Economy S. Chand Delhi
13. Dutt Ruddar Economic Reforms in India –A Critique, S Chand , New Delhi.
14. Mishara S K and Puri V K - Indian Economy, Himalaya Publishing House
15. Namboodripad E M S, Indian Planning and Crises, National book Center New Delhi.
16. Sundaram and Black The International Business Environment Prentices New Delhi

Equivalence of the paper

Existing Title of the Paper	Revised Title of the Paper
Business Environment Paper I	Business Environment Paper I

B.Com Part III Semester - VI– (CBCS)
Paper II : CC-C8 : Business Environment
 (Indian Economic Environment)
 (Compulsory Paper)
 Credits : 4

COURSE OUTCOMES:

1. Students will understand the Indian and global economic environment.
2. Students will equip with proper knowledge of Indian economic planning.
3. Students will enable with the knowledge of the plans and strategies toward foreign capital and multinational corporations.
4. Students will get acquainted with the functions, mechanism and performance of international financial, trade and regional cooperation institutions.

Unit No.	Unit Name	Periods
1	Liberalization, Privatization and Globalization 1.1 Concepts 1.2 Implementation and impact on Indian Economy. 1.3 Composition and direction of foreign trade in the Globalization era 1.4 Balance of payments crisis	15
2	Economic Planning and Service Sector 2.1 Economic planning – Broad objectives 2.2 NITI Aayog – Structure and functions 2.3 Planning process through NITI Aayog 2.4 Service Sector – Importance and progress of service sector in Indian economy.	15
3	Foreign Capital and Multinational Corporations 3.1 Need of foreign capital in India, 3.2 Policy of Government of India. 3.3 Multinational corporations- Definition, merits and demerits. 3.4 Exchange rates and Indian Rupee	15
4	International Institutions (Objectives and performance) 4.1 IMF 4.2 IBRD 4.3 WTO 3.3 SAARC	15

References

1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3rd ed. New York Wily
2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore
3. Yabraugh B V (2005) The World Economy: Trade and Finance, 7th Ed Thomas south western USA
4. Manab Adhikari, Global (2006) Business Management(An International economic environment), Macmillan India Ltd
5. Hill C.W. L. and Jain A. K.(2007) International Business Competing in Global market Place, McGraw Hill, New Delhi
6. Graham John L, Salwan Prashant, Cateora Philip R, (2008)International Marketing 13th Ed. Tata McGraw- Hill.
7. Jeevnandam C. International Business S.Chand, New Delhi 2008
8. Paul Justein International Business, 5th Ed (2011)Prentice Hall of India, Pvt Ltd new Delhi

9. Keegan Warren J. and Green Mark C. Global Marketing, 4th Ed.(2009) Prentice Hall India, Pvt. Ltd.
10. Bhalla V. K. and Ramu S.S.(2009) International Business Environment, Anmol Prakashan, New Delhi.
11. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24th Ed S. Chand, New Delhi.
12. Dutt and Sundaram K P M, Indian Economy, S. Chand, New Delhi.
13. Dutt Ruddar, Economic Reforms in India –A Critique, S Chand , New Delhi.
14. Mishara S K and Puri V K - Indian Economy, Himalaya Publishing House.
15. Namboodripad E M S, Indian Planning and Crises, National Book Center, New Delhi.
16. Sundaram and Black The International Business Environment, Prentices, New Delhi

Equivalence of the papers

Existing Title of the Paper	Revised Title of the Paper
Business Environment Paper II	Business Environment Paper II

Nature of question paper for B.Com - III Semester V and VI (Paper No. I to II)

Attempt any five questions.

Total Marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com (CBCS) Part-III (Semester-V)
Paper – I : DSE-A1 : Advanced Accountancy
Discipline Specific Course

4 Credits

Course Outcomes:

1. Practice the preparation of financial statements of banks.
2. Demonstrate accounting for farms and hire purchase system.
3. Simulate accounting situations of insurance claim.
4. Explain the accounting process on Tally with GST.

Syllabus Content

Unit- I	Bank Final Accounts (Vertical Format Only)	20 Lectures
Unit- II	a) Farm Accounting	10 Lectures
	b) Hire purchase system-Excluding Hire purchase Trading Account	10 Lectures
Unit- III	Insurance Claim- Loss of stock and Loss of profit policy	10 Lectures
Unit- IV	GST Accounting with practical's using Tally part – I Theory Introduction to GST on Goods, Introduction, Indirect Taxation prior GST, GST Implementation in India, Why GST was introduced in India? Understanding GST Taxation System, Dual GST, Structure of GST, Determination of Tax, Registration, GSTIN Structure, Businesses Liable to Register under GST, Tax Invoice, Bill of Supply, Supplementary Invoice, Input Tax Credit Set Off, GST Returns, Payment of Tax.	10 Lectures

Practical:

- a) Getting Started with GST (GOODS) in Tally ERP 9, Basic Concepts in GST, Configuring GST in Tally. ERP 9, Company Setup, Enabling Goods & Services Tax (GST),
- b) GST Classifications, Creating Masters, Creating Purchase Ledger, Creating Sales Ledger, Creating GST Ledger, Creating Party Ledger, Creating Stock Items
- c) Entering Transactions, Creating Purchase Invoice with GST, Creating Sales Invoice with GST, Printing Sales invoice
- d) GST Reports, GST Tax Payment

Reference Books:

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, S. Chand & Company, New Delhi.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, S. Chand & Company, New Delhi.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Himalaya Publishing House, Mumbai.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, Sultan Chand and Sons; New Delhi.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. Vikas Publication House, New Delhi.

- 6) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy Vol. I & II, Kalyani Publishers, New Delhi.
- 7) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, McGraw Hill Education India (Private) Ltd., Noida.
- 8) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 9) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.

Journals:

- 1) Indian Journal of Accounting
- 2) Chartered Accountant
- 3) Management Accountant

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Advanced Accountancy Paper-I
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1		Problem on Bank Final Accounts (This problem should be on Profit & Loss Account, Balance Sheet alongwith required schedules)	16 Marks
Question 2		Attempt any two questions (out of three): (These questions will be practical problems on Unit-II & III)	16 Marks
Question 3		Write short notes (Attempt any two out of four)	08 Marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

B.Com (CBCS) Part-III (Semester-V)
Paper – II : DSE-A2 : Advanced Accountancy (Auditing)
Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the concept and types of audit
2. To identify the residential status and its implication on tax liability
3. To understand the concept of exemption from income
4. To know the computation of income from various sources as well as total income

Syllabus Content

Unit- I	Nature and Scope of Audit: Audit – Meaning and Nature, Scope of Audit, Objectives of Audit, Relationship of Audit with other disciplines, Difference between Audit and Investigation, Basic Principles Governing Audit, Statutory Audit, Internal Audit, Cost Audit, Tax Audit, Management Audit, Concept of Vouching, Verification and Valuation.	15 Lectures
Unit- II	Audit of Specific Items in Financial Statements: A) Audit of sale of Products and Services; Audit of Interest Income, Rental Income, Dividend Income, Net gain/loss on sale of Investments; Audit of Purchases, Depreciation, Interest expense, Rent, Repair to building, Repair to Machinery, Insurance, Taxes, Travelling Expenses, Miscellaneous Expenses B) Audit of Share Capital, Reserve & Surplus, Long Term Borrowings, Trade Payables (creditors), Provisions, Short Term Borrowings and Other Current Liabilities, Audit of Land, Buildings, Plant and Equipment, Furniture and Fixtures, Goodwill, Brand/Trademarks, Computer Software, Audit of Loans and Advances, Trade Receivables, Inventories, Cash and Cash Equivalents, Other Current Assets, Audit of Contingent Liabilities.	15 Lectures
Unit- III	Company Audit: Eligibility, Qualifications and Disqualifications of Auditors; Appointment of auditors; Removal of auditors; Remuneration of Auditors; Powers and duties of auditors; Branch audit; Joint audit; Reporting requirements under the Companies Act, 2013 including CARO.	15 Lectures
Unit- IV	Special Audit and Audit Report: Audit of special entities like Bank, Insurance Companies, Charitable Trust, Hotel and Hospital, Elements of Audit Report; Types of Reports – Clean, Qualified, Adverse, Disclaimer of Opinion;	15 Lectures

Reference Books:

- 1) Tandon B.N., : Pracial Auditing, S.Chand, New Delhi
- 2) Kumar, A., Sharma, R.; : Auditing Theory and Practice, Atlantic Publishers, New Delhi
- 3) Johnson S., Wiley L. : : Auditing – A Practical Approach, Wiley Publishing House
- 4) Garg Pankaj : Auditing and Assurance, Taxmann Publications, New Delhi
- 5) Bansal, Surabhi : Auditing and Assurance, Wolters Kluwel Publicattion
- 6) Sekhar G, Prasath B. : Auditing and Assurance, Taxmann, New Delhi
- 7) Dinkar Pagare :
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final for Auditing

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Advanced Accountancy Paper-II
 (Auditing)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
Question 1	Long Answer Questions A) 8 Marks B) 8 Marks		16 Marks
Question 2	Attempt Any Two (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper- III : DSE-A3 : Advanced Accountancy
 Discipline Specific Course

4 Credits

Course Outcomes:

1. Practice the preparation of financial statements of banks.
2. Demonstrate accounting for farms and hire purchase system.
3. Simulate accounting situations of insurance claim.
4. Explain the accounting process on Tally with GST.

Syllabus Content

Unit- I Elements of Cost - Material, Labour, & Overheads, 10 Lectures
 Preparation of Cost Sheet, Quotation

Unit- II Financial Statement Analysis: 20 Lectures

a) Financial Statement Analysis- Meaning, types, Limitations of financial statements, Meaning and Need of financial statement analysis and Techniques of financial statement analysis.

(b) Ratio Analysis– Meaning, Advantages and Limitations, Classification of Ratios- Profitability Ratios, Turnover Ratios, Solvency Ratios and Liquidity Ratios.

Unit- III Cash Flow Analysis: 15 Lectures

Meaning of Cash Flow Analysis, Classification of Cash flows- Cash flow from Operating Activities, Cash flow from Investing Activities and Cash flow from Financing Activities, Cash and Cash equivalents, Extra-ordinary items, Preparation of Cash Flow Statement (As per AS-3)

Unit- IV GST Accounting with practicals using Tally part - II 15 Lectures

Theory:

4. Introduction to GST on Services, Existing Registration, Supply of Goods and Services, Scope of Supply, Place of Supply, Time of Supply, Value of Supply, Mixed Supply and Composition Supply, Accounting for

Return of Goods, Sales Returns, Purchase Returns, Credit Note, Debit Note, GST on Services, GST Reports & GST Returns

Practical:

- a) Getting Started with GST in Tally ERP 9, Basic Concepts in GST, Configuring GST in Tally.ERP 9, Company Setup, Enabling Goods & Services Tax (GST), GST Classifications
- b) Creating Masters, Creating Purchase Ledger, Creating Sales Ledger, Creating GST Ledger, Creating Party Ledger, Creating Stock Items
- c) Entering Transactions, Creating Purchase Invoice with GST, Creating Sales Invoice with GST, Printing Sales invoice, Accounting for Return of Goods, Sales Returns, Purchase Returns
- d) Accounting for GST on Services
- e) GST Reports, Generating GSTR-1 Report in Tally.ERP 9, Generating GSTR-2 Report in Tally.ERP 9, GST Tax Payment, Time line for payment of GST tax, Modes of Payment, Challan Reconciliation, Exporting returns and uploading To GSTIN

Notes:

- 1) Practical problems in the university examinations will be asked on Unit-I, II & III (however, problems on Unit-II shall be asked on Ratio Analysis only).
- 2) College should make a provision of necessary computers and accounting software for commerce department to train the students in Tally with GST as prescribed in the syllabus.
- 3) A visit should be arranged for increasing awareness of students regarding Tally with GST either in any business unit, Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:

- 1) Advanced Cost Accounting - N K Prasad
- 2) Cost Accounting - Jain & Narang
- 3) Cost Accounting – Ravi M Kishore Taxman
- 4) Principles of Management Accounting - Manmohan Goyal
- 5) Management Accounting - I. M. Pandey
- 6) Cost & Management Accounting - Jain & Narang
- 7) Advanced Accountancy - R. R. Gupta
- 8) Cost and Management Accounting M N Arora Vikas Publication
- 9) Cost and Management Accounting T Thukaram Rao
- 10) Fundamentals of Management Accounting- I M Pandey
- 11) Cost and Management Accounting- Horngreen and Datar and others

Journals:

- 4) Indian Journal of Accounting
- 5) Chartered Accountant
- 6) Management Accountant

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Accountancy Paper-III
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Problem		16 Marks
Question 2	Attempt any one problem (out of two)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-III.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

B.Com (CBCS) Part-III (Semester-VI)
Paper – IV : DSE-A4 : Advanced Accountancy (Taxation)
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the basic concepts of income tax and basis of charge
2. To identify the residential status and its implication on tax liability
3. To understand the manner of computation of total income
4. To know the basic concepts about GST

Unit- I	Basic Concepts: A) Meaning of Income Tax, Basis of Charge, Rates of Tax, Concepts of Previous Year, Assessment Year, Person, Income, Assessee. B) Residential Status and Taxability - Meaning of Residential Status, Provisions for determination of Residential status and tax liability in respect of individual and HUF, Determination of Residential Status of Firms and Companies.	15 Lectures
Unit- II	Exemptions and Deductions from total income (in respect of individual only)	10 Lectures
Unit- III	Heads of Income, Computation of total income and tax liability: Income from Salary, Income from House Property, Income from Business/Profession, Income from Capital Gain, Income from Other Sources, Computation of Gross Total Income and Tax Liability in respect of Individuals only.	25 Lectures
Unit- IV	Basics of GST: Meaning and Features of GST, Benefits of GST, Need of GST, Constitutional Provisions of GST, Levy and Collection of GST, Introduction to CGST, SGST, IGST, UTGST.	10 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,

- 8) Kadkol M.B., Income Tax : Law and Practice,
- 9) Mehta : Income Tax Ready Reckoner
- 10) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final for Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Accountancy Paper-IV
 (Taxation)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
Question 1		Practical Problem (Computation of Taxable Income and Tax Liability)	16 Marks
Question 2		Practical Problems -Attempt Any Two (out of three)	16 Marks
Question 3		Write short notes (Attempt any two out of four)	08 Marks

B.Com (CBCS) Part-III (Semester-V)
Paper - I : DSE-C1 : Advanced Costing
 Discipline Specific Course

4 Credits

Course Outcomes:

- 1) To understand the basic concepts of cost accounting.
- 2) To classify the cost and apply the same for cost determination.
- 3) To understand the cost accounting procedure in respect of materials.
- 4) To know the application of cost accounting in determination of labour cost.

Syllabus Content

Unit- I	Basics of Cost Accounting: Meaning:- Concepts of Cost, Costing, Cost Accounting, Cost Accountancy; Nature, Scope, objectives and importance of Cost Accounting; Difference between Cost Accounting, Financial Accounting and Management Accounting.	10 Lectures
Unit- II	Elements of Cost: Elements of Cost- Concepts of Material Cost, Labour Cost and Overheads; Classification of Cost, Cost Centre and Cost Unit, Cost Sheet, Tender and Quotation, Preparation of Cost Sheet.	15 Lectures
Unit- III	Material Cost: Storage of Material, Objectives of Store Keeping, Fixation of Stock Levels and Economic Order Quantity; Pricing of Issue of Material – FIFO, LIFO, Simple Average Method, Weighted Average Method.	15 Lectures
Unit- IV	Labour Cost: Labour Cost- Meaning and Importance, Time Keeping and Time Booking, Methods of Remuneration and incentives, Sound Wage policy (Characteristics and Factors considered for wage determination), Time Rate System, Piece Rate system, Taylor's Differential Piece Rate and Merrick's Differential / Multiple Piece Rate system, Halsey Plan and Rowan Plan.	20 Lectures

Reference Books:

- 1) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi

- 2) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 3) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 4) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 5) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 6) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper

B.Com (CBCS) Part-III (Semester-V)

Advanced Costing Paper-I

Discipline Specific Course

(Introduced from June-2020)

Instructions:	i) All the questions are compulsory.	Total : 40 Marks
	ii) Figures to the right indicate full marks.	
	iii) Use of calculator is allowed.	
Question 1	Practical Problems A) 8 Marks } B) 8 Marks }	16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)	16 Marks
Question 3	Write short notes (Attempt any two out of four)	08 Marks

B.Com (CBCS) Part-III (Semester-V) Paper - II : DSE-E2 : Advanced Costing

Discipline Specific Course

4 Credits

Course Outcome:

- 1) To identify the meaning of overheads and its classification
- 2) To understand different methods of absorption of overheads.
- 3) To find out the reasons for difference between profit as per cost and financial accounts.
- 4) To understand meaning of activity based costing and its practical application.

Syllabus Content

Unit- I	Overheads: Meaning, Classification of Overheads, Concepts of Allocation, Absorption, Apportionment and Reapportionment of overheads.	15 Lectures
Unit- II	Absorption of Overheads: Meaning, Methods of Absorption: - Production Unit Method, Percentage on Direct Material Cost, Percentage on Direct Wages, Percentage of Prime Cost, Direct Labour Hour Method, Machine Hour Rate, Apportionment and Reapportionment of Overheads.	15 Lectures
Unit- III	Reconciliation of Cost And Financial Accounts: Need for Reconciliation of Cost and Financial Accounts. Preparation of Statement of Reconciliation of Cost and Financial Accounts.	15 Lectures
Unit- IV	Activity Based Costing: Meaning, Objectives, Advantages and Limitations of Activity Based Costing, Cost Drivers, Preparation of Statement of Cost as per Activity Based Costing.	15 Lectures

Reference Books:

- 1) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 2) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 3) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 4) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 5) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 6) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Advanced Costing Paper-II
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problems C) 8 Marks } D) 8 Marks }		16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper - III : DSE-C3 : Advanced Costing
(Methods of Cost Accounting)
 Discipline Specific Course

4 Credits

Course Outcome:

- 1) To understand the concepts of job and unit costing.
- 2) To know the applications of process costing and joint product and by product accounting
- 3) To understand procedure of contract costing and its practical implementation
- 4) To identify meaning of service costing and its application.

Syllabus Content

Unit- I	Job Costing and Unit Costing: Meaning, Features, Practical Applications of Job Costing and Unit Costing, Preparation of Job Cost Sheet.	15 Lectures
Unit- II	Process Costing: Process Costing: Meaning and its Applications, Concept of Equivalent Production, Preparation of Process Accounts, Concepts of Joint Products and By Products. (Note : Problems on Process Costing excluding Equivalent Production).	15 Lectures
Unit- III	Contract Costing: Contract Costing: Meaning, Features, Accounting Procedure, Retention money, Escalation Clause, Work in Progress, Cost Plus Contract. Preparation of Contract Account.	15 Lectures
Unit- IV	Operation/ Service Costing: Service Costing : Meaning and Definition, Application of Service Costing, Determination of Service Cost in Transport Industry	15 Lectures

Reference Books:

- 1) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 2) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 3) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 4) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 5) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 6) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Costing Paper-III
 (Methods of Cost Accounting)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problems E) 8 Marks } F) 8 Marks }		16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper – IV : DSE-C4 : Advanced Costing
(Costing Techniques)
 Discipline Specific Course

4 Credits

Course Outcome:

- 1) To know the applications of marginal costing in decision making.
- 2) To understand the concept of standard costing and analysis of variances.
- 3) To know the concept and types of budgets and concept of budgetary control.
- 4) To understand prospects of cost accounting standards.

Syllabus Content

Unit- I	Marginal Costing: Meaning and Importance of Marginal Costing, CVP Analysis, Profit – Volume Ratio, Break Even Point, Margin of Safety, Interpretation of BEP Analysis.	15 Lectures
Unit- II	Standard Costing: Standard Costing : Meaning, Objectives, Features; Types of Standards, Variance Analysis – Material Cost Variance, Labour Cost Variance and Overhead Variance and Interpretation of Variance Analysis.	15 Lectures
Unit- III	Budget and Budgetary Control: Meaning, Objectives, Types of Budgets; Preparation of Cash Budget, Fixed and Flexible Budget; Budgetary Control System- Features and Components.	20 Lectures
Unit- IV	Cost Audit and Cost Accounting Standards: Cost Audit : Meaning, Legal Requirement, Objectives; Setting Process, List and Applicability of Cost Accounting Standards	10 Lectures

Reference Books:

- 7) Practical Problems in Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 8) Cost Accounting Methods and Problems – B. K. Bhar, Academic publishers Kolkatta
- 9) Cost Accounting- S. P.Jain and K. L Narang, Kalyani publishes New Delhi
- 10) Principles and Practices of Costing - Lal and Nigam, Himalaya publishing house.
- 11) Cost Accounting - Lal and Nigam, Himalaya publishing house
- 12) Cost Management : Ravi M Kishore, Taxmann Publications

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Advanced Costing Paper-VI
 (Costing Techniques)
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problems G) 8 Marks } H) 8 Marks }		16 Marks
Question 2	Attempt Any Two Practical Problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-V)
Paper – I : DSE-D1 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the basic concepts of income tax and basis of charge
2. To identify the residential status and its implication on tax liability
3. To understand the concept of exemption from income
4. To know the computation of income from various sources as well as total income

Syllabus Content

Unit- I	Basic Concepts: Introduction to Income Tax Law, Meaning of Previous Year, Assessment Year, Person, Income, Assessee, Basis of Charge, Rates of Tax.	10 Lectures
Unit- II	Residential Status and Taxability: Determination of Residential Status of Individual, HUF, Firm and Company; Taxable Income in respect of Resident Individual, Resident but Not Ordinarily Resident Individual, Non Resident Individual; Taxability of Resident as well as Non Resident Firms and Companies	15 Lectures
Unit- III	Income Not Forming Part of Total Income (Exemptions): Concept of Exemption, Specific Provisions of Exemption under section 10 – Profit Sharing from Partnership Firm, Agricultural Income, Leave Travel Concession, Gratuity, Leave Encashment, House Rent Allowance	15 Lectures
Unit- IV	Heads of Income: Features of Various Heads of Income – Salary, House Property, Capital Gain, Business/Profession, Other Sources, Determination of Taxable Income from Each of these Sources of Income, Computation of Total Income	10 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi

- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Taxation Paper-I
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problem A) 8 Marks B) 8 Marks		16 Marks
Question 2	Attempt Any Two Questions on theory or problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-V)
Paper – II : DSE-D2 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

- 5) To know the meaning of clubbing of income
- 6) To understand the provisions of set off and carry forward of losses
- 7) To find out the deductions available from Gross Total Income
- 8) To understand meaning the manner of computation of tax liability

Syllabus Content

Unit- I	Clubbing of Income: Meaning of Clubbing of Income, Transfer of Income without Transfer of Assets, Income Arising from Revocable Transfers, Provisions relating to Clubbing, Income arising to Spouse, Minor Child.	10 Lectures
Unit- II	Carry Forward and Set-Off of Losses: Concept of Carry Forward of Losses, Concept of Set-Off of Carried Forward Losses, Provisions relating to Set-Off and Carry Forward of Losses against various Heads of Income, Conditions for Carrying Forward of Losses.	10 Lectures
Unit- III	Deductions from Gross Total Income: Concept of Deduction, Difference between Exemption and Deduction, Deduction from Gross Total Income in respect of Payments, Specific Provisions about Deduction under Section 80 C, 80D, 80 E and 80 G.	15 Lectures
Unit- IV	Computation of Total Income and Tax Liability: Determination of Gross Total Income considering various sources of Income, Computation of Taxable Income considering deductions, Computation of Tax Liability in case of Individual, H.U.F., Firm and Company Considering rates of tax.	25 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi

- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-V)
 Taxation Paper-II
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1		Practical Problem C) 8 Marks D) 8 Marks	16 Marks
Question 2		Attempt Any Two Questions on theory or problems (out of three)	16 Marks
Question 3		Write short notes (Attempt any two out of four)	08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper - III : DSE-D3 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the concepts of TDS, TCS and Advance Tax
2. To know the procedure of filing of income tax return
3. To understand procedure of assessment and various types of assessments
4. To know the powers and functions of income tax authorities

Syllabus Content

Unit- I	TDS, TCS and Advance Tax: Concepts of Advance Tax, Tax Deducted at Source and Tax Collected at Source; Provisions relating to Interest for Default in Payment of Advance Tax, TDS and TCS; Tax Deduction and Tax Collection Account Number; Filing of TDS Returns.	15 Lectures
Unit- II	Self Assessment Tax and Filing of Income Tax Return: Payment of Self Assessment Tax, Filing of Income Tax Return, Compulsory Filing of Return, Penalty for Default in Filing of Return, Return of Loss, Provisions related to Revised and Belated Return, Procedure of Online Payment of Tax and Filing of Return.	15 Lectures
Unit- III	Assessment of Tax: Assessment, Reassessment, Best Judgment Assessment, Income Escaping Assessment, Self Assessment, Scrutiny Assessment, Protective Assessment, Appeals and Revision, Search and Survey.	15 Lectures
Unit- IV	Authorities of Income Tax: Income Tax Authorities - Functions of CBDT, DGIT, Chief Commissioner of Income Tax; Powers and duties of Commissioner of Income Tax, Commissioner of Income Tax (Appeals), Additional Director (or Commissioner), Joint Director (or Commissioner), Income Tax Officer, Assistant Director (or Commissioner), Tax Recovery Officer and Inspector.	15 Lectures

Reference Books:

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi

- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhanian, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper
 B.Com (CBCS) Part-III (Semester-VI)
 Taxation Paper-III
 Discipline Specific Course
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Practical Problem E) 8 Marks F) 8 Marks		16 Marks
Question 2	Attempt Any Two Questions on theory or problems (out of three)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

B.Com (CBCS) Part-III (Semester-VI)
Paper- IV : DSE-D4 : Taxation
 Discipline Specific Course

4 Credits

Course Outcomes:

1. To understand the concept of GST
2. To know the procedure of registration under GST
3. To understand the important concepts related to GST
4. To understand the legal framework of GST in India

Syllabus Content

Unit- I	Basics of GST: Meaning of GST, Need for GST, Features of GST, Application of GST in India, Rates of GST, Benefits of GST, Charge or Levy of GST.	15 Lectures
Unit- II	Registration: Persons liable and not liable for registration under GST, Amendment and Cancellation of GST registration, Exemptions from GST, Goods and Services exempted from GST.	15 Lectures
Unit- III	Important Concepts under GST: Input Tax Credit : Meaning, Definition, Eligibility for taking Input Tax Credit Tax Invoice, Debit and Credit Notes : Meaning, Proforma and Amounts to be Indicated Payment of Tax and Return : Procedure of payment of GST and Filing of Returns of GST	15 Lectures
Unit- IV	Legal Framework of GST in India: Application of CGST, SGST, IGST and UTGST Acts, Provisions of Levy, Collection, Composite Scheme and Commencement of GST Regime as per various acts	15 Lectures

(Note: Problems shall be asked on Unit 3 and 4 only)

Reference Books:

- 1) Singhanian, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhanian, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final-Taxation

Nature of Question Paper

B.Com (CBCS) Part-III (Semester-VI)
Taxation Paper-IV
Discipline Specific Course
(Introduced from June-2020)

Instructions:	i) All the questions are compulsory.	Total : 40 Marks
	ii) Figures to the right indicate full marks.	
	iii) Use of calculator is allowed.	
Question 1	Practical Problem G) 8 Marks H) 8 Marks	16 Marks
Question 2	Attempt Any Two Questions on theory or problems (out of three)	16 Marks
Question 3	Write short notes (Attempt any two out of four)	08 Marks

(Note: Problems shall be asked on Unit 3 and 4 only)

B.Com-III Semester – V (CBCS) Paper-I : DSE-F1 : Insurance (Life Insurance)

Objectives

- i) To acquaint the students with the basics of Life Insurance and its procedure
- ii) To familiarize the students with the insurable risk and various life insurance products

Unit I: - Introduction to Life Insurance:-

- 1.1 : Life Insurance -Evolution, Meaning, Definition, Features
- 1.2 : Human Assets, Principles of Protection and Investment in Life Insurance, Principles applicable to life insurance
- 1.3 : Socio-Economic significance of Life Insurance, Life Insurance as a social security tool
- 1.4 : Role of Life Insurance in financial planning, Life insurance needs at various Life stages

(15periods)

Unit II: - Life Insurance Contract & Conditions:-

- 2.1: Life Insurance Contract –Meaning and Nature, Conditions of valid Life Insurance Contract
- 2.2 :Procedure of taking life insurance policy, Procedure of settlement of death and maturity claims
- 2.3 :Policy conditions relating to payment of premium, grace days, surrender value, paid up policy, lapses of policy, revival of lapsed policy
- 2.4 :Policy conditions relating to nomination and assignment of policy, accident and disability benefits

(15periods)

Unit III: - Life Insurance Risk and Premium:-

- 3.1 : Meaning and definition of risk, Classification of risk : physical, occupational and

moral, insurable and non-insurable risk

3.2 : Risk to human life, Evaluation of risk, – Factors affecting longevity of a person

3.3 : Calculation of Premium, Steps in calculation of premium, calculation of net single premium for term insurance, whole life insurance and endowment insurance policy, Types of premium, Premium calculation

3.4 :Underwriting : Meaning and importance, Non-medical underwriting – Female lives underwriting – Recent Trends in underwriting (15periods)

Unit IV: - Life Insurance Products:-

4.1 : Whole Life Policy : Meaning, features, merits-demerits and types

4.2 :Endowment Policy : Meaning, features, merits-demerits and types

4.3 :Term Assurance, Annuities, Group Insurance (only features & Types)

4.4 :ULIP – Comparison of ULIP with Traditional Insurance–Riders,(15periods)

Practical : Visit the nearest office of life insurance and collect the information of various life insurance policies.

Reference Books for Paper No. I to IV

1. Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
2. Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
3. Principles of Risk Management and Insurance – Dr. Neelam C. Gulati, Excel Books, NewDelhi
4. Theory and practice of Insurance – M. Arif Khan, Taj Printing Works , Aligarh
5. RiskManagementinBankingandInsurance-S.B.Verma,Y.Uppadhyay, R.K. Shrivasaatawa, Deep and Deep Publications Pvt. Ltd
6. Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. New Delhi
7. Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
8. Insurance and Risk Management – Dr. P.K.Gupta, Himalaya Publishing House
9. Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books New Delhi
10. Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
11. General Insurance - S. Balachandran, Insurance Institute of India Mumbai 12.Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com. Part-III Semester – V
Paper-II : DSE-F2 : Insurance
(General Insurance)

Objectives

- i) To familiarize the student with the glimpses of fire insurance and motor insurance and their procedural aspects.
- ii) To expose the students to the important legal provisions with the respect to IRDAI in general and Fire and Motor insurance in particular

Unit I: - Fire Insurance:-

- 1.1: Fire Insurance : Meaning of fire and fire insurance, Nature, Physical hazards in fire insurance, Importance of fire insurance
- 1.2 : Principles of fire Insurance and conditions of fire insurance policy
- 1.3 : Concepts and difference between Co-insurance & Reinsurance- Methods of Reinsurance, Advantages of Reinsurance, Under-insurance and over-insurance
- 1.4 : Progress of fire insurance business in India after privatization (15Periods)

Unit II: - Fire Insurance Policy and Rating–

- 2.1: Procedure of taking fire insurance policy, Renewal of fire insurance policy, Settlement of claim under fire insurance
- 2.2 : Cancellation and forfeiture of fire insurance policy.
- 2.3 : Kinds of fire insurance policy
- 2.4 : Rating - Rate fixation in Fire Insurance - System, Principles - Theory of Rating – Bases of Rating - Degree of Hazards – Classification of Risk Past loss experience and law of probability. (15Periods)

Unit III:-Basics of Motor Insurance–

- 3.1 : Meaning, Need, Basic Principles of motor insurance
- 3.2 : Classification of vehicles under motor insurance, Types of motor insurance policy
- 3.3 : Procedure of taking Motor Insurance Policy, Settlement of Claim under motor insurance, No Claim Bonus
- 3.4 : Factors considered for premium rating under motor insurance, Conciliation forum, motor accident tribunal (15Periods)

Unit IV:- Documentation and Legislation –

- 4.1: Documents in Fire Insurance – Proposal Form, Survey Report, Cover Note, Policy, Endorsement, Renewal Notice, Claim Form.
- 4.2: Documents in Motor Insurance – Proposal Form, Survey Report, Cover Note, Policy, Certificate of Insurance, Registration Certificate Book, Fitness Certificate and Permit (for commercial vehicle)
- 4.3: Legislations – Important provisions relating to fire insurance in Insurance Act 1938, Important provisions relating to Motor Insurance in Motor Vehicle Act 1988.
- 4.4 : Insurance Regulatory and Development Authority of India (IRDAI) Act, 1999 : Important provisions (15Periods)

Practical :

- (i) Take survey of properties covered under fire insurance in local community.
- (ii) Collect the information of the types of motor insurance policies taken by vehicle owners in local community.

Reference Books for Paper No. I to IV

- 1) Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
- 2) Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
- 3) Principles of Risk Management and Insurance – Dr. Neelam C. Gulati, Excel Books, NewDelhi
- 4) Theory and practice of Insurance – M. Arif Khan, Taj Printing Works , Aligarh
- 5) RiskManagementinBankingandInsurance-S.B.Verma,Y.Uppadhyay, R.K. Shrivasaawa, Deep and Deep Publications Pvt. Ltd
- 6) Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. New Delhi
- 7) Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
- 8) Insurance and Risk Management – Dr. P.K.Gupta, Himalaya Publishing House
- 9) Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books New Delhi
- 10) Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
- 11) General Insurance - S. Balachandran, Insurance Institute of IndiaMumbai
- 12) Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com-III Semester – VI
Paper – III :DSE-F3 : Insurance
(Claim Management in Life Insurance)

Objectives

- i) To provide the sound understanding to the student about managing the claims under life insurance
- ii) To acquaint the students with the life insurance legalization and documents

Unit I : - Life Insurance Agent (Financial Adviser)

- 1.1 : Life Insurance Agent: Meaning, Procedure for becoming an Agent, Insurance Agency as a Profession, Qualifications & disqualification for Life Insurance Agent
 - 1.2 : Role of an Insurance Agent in distribution of insurance products, Functions of an life insurance Agent
 - 1.3: Code of conduct for life insurance agent, Remuneration of life insurance agent
 - 1.4 : Use of Internet and Intranet means by LIC agent, Benefits of Information Technology to Insurance Agent and Policy holders
- (15periods)**

Unit II: - Life Insurance : Documents and Progress:-

- 2.1 :Life Insurance documents : Meaning and Importance of LIC documents, Conditions regarding loss of life insurance policy and Indemnity bond
- 2.2 :Documents for taking out life insurance policy : Proposal form, Medical Examination Report, Agent's Confidential Report, Proof of Age, First premium receipt (Cover note), Renewal Premium Receipt Life Insurance Policy
- 2.3 :Documents for settlement of claim : Death Certificate, Police Inquest Report, Coroner's Report, Deed of Assignment, Claim for Discharge form
- 2.4 :Progress of life Insurance in India since privatization(15 Periods)

Unit III: - Claim Management in Life Insurance

- 3.1 : Claim Management: Meaning, Need, Classifications of claims : Death claim, Maturity claim, Early claims, Time- barred claims
 - 3.2 :Claim management procedure and system for different types of claim,
 - 3.3 :Calculation of claim, Claim concessions, Presumption of death, Accident and Disability benefits
 - 3.4 : Importance of investigation in claim management.
- (15periods)**

Unit IV: - Life Insurance Legislation & FDI in Life Insurance Sector :

- 4.1 : Important provisions of Life Insurance Corporation Act 1956,
 - 4.2 :Evolution of Insurance Regulatory and Development Authority (IRDA) of India Act.1999 and important provisions
 - 4.3 :Ombudsman in Life Insurance : Meaning, function and role in grievance redressal
 - 4.4 :Foreign Direct Investment in Life Insurance Sector : Advantages and disadvantages
- (15periods)**

Practical :

- (i) Interact with the life insurance agent and understand his /her role
- (ii) Visit the nearest LIC office and collect the information about settlements of claims and settlement rate

Reference Books for Paper No. I to IV

1. Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
2. Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
3. Principles of Risk Management and Insurance – Dr. Neelam C. Gulati,Excel Books, NewDelhi

4. Theory and practice of Insurance – M. Arif Khan, Taj Printing Works ,Aligarh
5. Risk Management in Banking and Insurance- S.B. Verma, Y .Uppadhyay, R.K. Shrivastawa, Deep and Deep Publications Pvt.Ltd
6. Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. NewDelhi
7. Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
8. Insurance and Risk Management – Dr. P.K.Gupta, Himalaya PublishingHouse
9. Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books NewDelhi
10. Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
11. General Insurance - S. Balachandran, Insurance Institute of IndiaMumbai
12. Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com –III Semester – VI
Paper – IV : DSE-F4 : Insurance
(Marine and Other Insurance)

Objectives

- i) To expose the students to the principles, types and conditions of Marine Insurance
- ii) To familiarize the students with various documents and legislative provisions of Marine Insurance.
- iii) To acquaint the student to various types of Miscellaneous Insurance

Unit I: - Marine Insurance :

- 1.1 : Marine Insurance : Evolution, Meaning & Definition, Classification, Principles
- 1.2 : Clauses of Marine Insurance Policy, Warranties: Implied & Expressed Warranties
- 1.3 : Types of Marine Insurance Policy
- 1.4 : Procedure for taking Marine Insurance Policy, Payment of claim (15 periods)

Unit II :- Marine Losses and Perils :

- 2.1 : Marine Losses : Total loss, Partial Loss, Particular Average Loss, General Average Loss
- 2.2 : Difference between Particular Average Loss & General Average Loss - Salvage Charges – Preparation of loss statement
- 2.3 : Marine Perils
- 2.4 : Progress of Marine Insurance business in India. (15 periods)

Unit III :- Other Insurance (Only Nature & Cover)

- 3.1 : Burglary Insurance, Engineering Insurance
- 3.2 : Crop Insurance, Cattle Insurance
- 3.3 : Sports Insurance, Catastrophe Insurance
- 3.4 : Aviation Insurance, Export Risk Insurance (15 periods)

Unit IV :- Documentation and Legislation :-

- 4.1 : Documents in Marine Insurance - Proposal Form, Survey Report, Cover Note, Policy, Endorsement, Renewal Notice, Claim Form, Bill of Lading, Letter of Subrogation, Copy of Protest.
- 4.2 : Important Provisions of Marine Insurance Act 1963
- 4.3 : Insurance Regulatory and Development Authority Act 1999
- 4.4 : Foreign Direct Investment in General Insurance Sector (15 periods)

Practical

- i) Obtain the documents used in marine insurance by visiting nearest branch office of General Insurance Corporation, analyze them and prepare the report.
- ii) Obtain the bare Act of IRDA Act 1999 and study its provisions

Reference Books for Paper No. I to IV

1. Insurance Principles and Practice – M.N. Mishra and S.B.Mishra, S. Chand and Co. NewDelhi
2. Principles and Practice of Insurance – M. Motihar, ShardaPustakBhavan, Allhabad
3. Principles of Risk Management and Insurance – Dr. Neelam C. Gulati,Excel Books, NewDelhi
4. Theory and practice of Insurance – M. Arif Khan, Taj Printing Works ,Aligarh
5. Risk Management in Banking and Insurance- S.B. Verma, Y .Uppadhyay, R.K. Shrivasaatawa, Deep and Deep Publications Pvt.Ltd
6. Insurance Principles and Practice – M.N. Mishra, S. Chand and Co. NewDelhi
7. Insurance Theory and practice – NaliniPravaTripathy, Prabir Pal, PHI Learning Pvt Ltd NewDelhi
8. Insurance and Risk Management – Dr. P.K.Gupta, Himalaya PublishingHouse
9. Insurance Meaning and Its Principles – B.D.Bhargava, Pearl Books NewDelhi
10. Insurance Law And Practice – C.L.Tyagi, MadhuTyagi, Atlantic Publishers and Distributers Pvt Ltd
11. General Insurance - S. Balachandran, Insurance Institute of IndiaMumbai
12. Life Insurance - S. Balachandran, Insurance Institute of IndiaMumbai

B.Com.III
Semester V and VI (CBCS Pattern)
Insurance Paper I to IV
Nature of Question Paper

Instructions:

Total Marks: 50

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write Short Answers (Any two out of three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of three)	10 Marks

Equivalence

Sr.No.	Old Name	New Name
1	Insurance Paper - I	Insurance Paper - I
2	Insurance Paper - II	Insurance Paper - II
3	Insurance Paper - III	Insurance Paper - III
4	Insurance Paper - IV	Insurance Paper - IV

B. Com Part III
(CBCS Pattern- 2020-21)
ADVANCED MARKETING

<i>Semester</i>	<i>Paper</i>	<i>Name of Course</i>
Semester V	Paper I	Introduction to Marketing
	Paper II	Marketing Management
Semester VI	Paper III	Service Marketing
	Paper IV	Recent Trends in Marketing Management

B. Com Part III Semester V
Paper I : DSE-G1 : INTRODUCTION TO MARKETING

Course Outcomes:

- iii) *To acquaint the students with the basics and advance marketing concepts and its procedure*
- iv) *To familiarize the students with Marketing Environment and Consumer Buying Behaviour.*

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
Unit 1	<p>Introduction to Marketing: Meaning and Nature of Marketing, Evolution of Marketing Concept, Importance and Functions of Marketing, Objectives and Process of Marketing <i>Practical: Writing marketing process of any particular product</i></p>	15
Unit 2	<p>Modern Marketing: Difference between Selling and Marketing, Changing Concepts of Marketing, Features of Modern Marketing Concept, Role of Marketing in Economic Development, Relation of Marketing with other functional areas of business. Types of Marketing Organisation <i>Practical: Study of relation of marketing department with other departments of any business organisation</i></p>	15
Unit 3	<p>Marketing Environment and Marketing System: Micro and Macro Marketing Environment, Forces in Marketing, Environmental Scanning and Analysis, Mapping the Marketing Environment, Marketing System <i>Practical: Scanning and Analysis of Marketing Environment of any nearest business organisation.</i></p>	15
Unit 4	<p>Consumer Behaviour: Concept of Consumer Behaviour, Need for understanding Consumer Behaviour, Consumer Decision Behaviour, Factors influencing Consumer Buying Behaviour, Buying Motives of Consumers, Consumer Buying Decision Process <i>Practical: Observing and reporting consumer behaviour at any departmental store or vegetable market or weekly bazaar.</i></p>	15

B. Com Part III Semester V
Paper II :DSE-G2 : MARKETING MANAGEMENT

Course Outcomes:

- iii) To familiarize the student with conceptual Marketing Management, its functions and role of Marketing Manager
- iv) To expose the students to the understand the Market Segmentation and Marketing Mix

Unit	Course Contents	Hours
Unit 1	<p>Marketing Management Meaning and Nature of Marketing Management, Functions of Marketing Management, Role of Marketing Manager, Qualities of Marketing Manager <i>Practical: Draft a report after discussion with marketing manager of any nearest company.</i></p>	15
Unit 2	<p>Marketing Planning: Meaning, Significance and Process of Marketing Planning, Structure of Marketing Plan, Strategic Marketing Planning – Meaning and Process, Competitive Marketing Strategies <i>Practical: Preparation of marketing plan for any product</i></p>	15
Unit 3	<p>Market Segmentation and Marketing Mix Concept of Market Segmentation, Requirements of Effective Segmentation, Benefits of Market Segmentation, Methods of Marketing Segmentation, Patterns of Segmentation. Marketing Mix: Meaning, Importance and Elements of Marketing Mix, Determining the Marketing Mix, Factors affecting the Marketing Mix <i>Practical: Preparation of marketing mix of any business organisation producing different products.</i></p>	15
Unit 4	<p>Management of Marketing Mix: a) Product Mix: Concept of Product, Product Planning – Significance and factors affecting the Product Planning, b) Price Mix: Significance of Price in Marketing, Objectives of Pricing, Factors affecting Price, Kinds of Pricing Decisions c) Promotion Mix: Meaning, Objectives and Methods of Promotion d) Place (Distribution) Mix: Meaning and Importance of Distribution Channels, Distribution Policies and Strategies <i>Practical: Visit to nearest 5 shops for collection of information about any of the above four factors.</i></p>	15

B. Com Part III Semester VI
Paper III : DSE-G3 : SERVICE MARKETING

Course Outcomes:

1. To provide the sound understanding to the student about of various sectors of service marketing.
2. To acquaint the students with the Service marketing strategy and Supply Chain Management:

Unit	Course Contents	Hours
Unit 1	<p>Marketing of Service: Introduction, definition, characteristics of services (Intangibility, Inseparability, Heterogeneity, Perishability). Importance of services, distinction between services and goods, Marketing Mix in Service Marketing- Product price, place, Promoting, Service encounters service, personnel issues, emotions and service situations, service profit chain, service recovery and empowerment. Practical- Study and prepare chart of various service marketing sectors and share it in the class.</p>	15
Unit 2	<p>Services Marketing Strategy: Overview of Service Marketing Strategy – Concept and Objectives. Strategic Role of Service Marketing. Formulating and implementing Service marketing strategy. Services Strategies- Strategies for Market Leaders, challengers, followers and niche marketers. Practical- Visit different service organizations and prepare innovative strategies for promoting service marketing.</p>	15
Unit 3	<p>Logistics & Supply Chain Management: Definition and scope of logistics, key logistics activities, market logistics decision, emerging concepts in logistics. Concept of supply chain management (SCM), need for SCM, advances in SCM. Distribution: 6 C's of distribution. Selection and appointing distributors. Practical- Study the logistic and supply chain management of the company's dealer working for. Prepare report and share in the class.</p>	15
Unit 4	<p>Marketing Service Sectors: Concept, Characteristics and strategies for different services- Banking, Insurance, Hotel, transport, tourism and consultancy services Service Quality- Customer Expectations and Perceptions Practical- Prepare a marketing report by visiting service organization situated to your local area.</p>	15

B. Com Part III Semester VI

Paper IV :DSE-G4 : RECENT TRENDS IN MARKETING MANAGEMENT

Course Outcomes:

- iv) To provide the students regarding conceptual information on recent trends in marketing management
- v) To acquaint the student with concept of MIS, CRM and Green Marketing
- vi) To familiarize the students with Retail marketing, Agricultural marketing and International marketing.

<i>Unit</i>	<i>Course Contents</i>	<i>Hours</i>
Unit 1	<p>Marketing Information System (MIS) and Green Marketing: Marketing Information System-Meaning, definition, Characteristics, scope & procedure MIS. Requirement of Good MIS, Importance of MIS</p> <p>Green Marketing- Meaning and importance issues involved in green marketing- social responsibility, pressure of government, competitive pressure cost of profit. Problems of green marketing. Green marketing strategies.</p> <p>Practical- Visit to nearest corporate /super market and write the MIS and Green Marketing structure by observing the same.</p>	15
Unit 2	<p>Customer Relationship Management & Retail Marketing: Customer Relationship Management (CRM)-concept, CRM process, measuring CRM, CRM framework, Tangible Components of CRM, CRM in services, CRM in product management, Zero customer defection, customer loyalty, and customer loyalty development strategies.</p> <p>Retail Marketing: Introduction to retail, Factors behind the change of Indian Retailing industry- Economic growth, Classification of retailers: Store and Non-store based retailers, Organised and Unorganised Retailing, business models in retail. Careers in Retailing: Employment opportunities, ownership opportunity.</p> <p>Practical- Visit Big Bazar/ Departmental store and prepare a report on CRM and retail marketing for ascertaining the career opportunity in it.</p>	15
Unit 3	<p>Agricultural Marketing: Meaning and scope of agricultural marketing-Market structure, factors influencing marketable surplus. Estimation of marketable and marketed surplus. New trends in agricultural marketing: APEDA, NAFED- Characteristics of a good agricultural marketing system- Promotion of agricultural products.</p> <p>Practical- Study the nearest APMC functions and prepare report to share in the class.</p>	15
Unit 4	<p>International Marketing: Concept of International Marketing and its Environment, Entry Strategies, International organization, Export</p>	

	<p>procedure & documents, Global Strategies, targeting and Positioning, International Marketing mix- Product Design Decisions, Geographic expansion strategic alternatives, New product in Global Market, Global Pricing Strategies, Channel Objectives and constraints, Channel Structure, Advertising decisions in International marketing.</p> <p>Practical- Study the concepts of international marketing and understand the export procedure & documents.</p>	<p>15</p>
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Reference Books:

1. *The Essence of Marketing- Majaro, Simon. Perentice Hall, New Delhi*
2. *Sales Management: Decision, Strategies and Cases- R. R. Still , E.W. Cundiff , N.A.P. Govani, Pearson Education*
3. *Sales and Distribution Management – K.K. Havaldar, V.M. Cavale, Tata McGraw Hill Company*
4. *Professional Sales Management -Anderson, Hair and Bush, McGraw Hill Company*
5. *Sales Management – Rustom Davar*
6. *Marketing Management- Kotler, Keller, Koshy, Jha, Prentice Hall.*
7. *Marketing Management - Ramaswamy, Namakumari, McGraw Hill Education*
8. *Consumer Behaviour – Schiffman and Kanuk , Pearson Publication*
9. *Marketing Management-Pilai, Bhagavati and Kala- S. Chand & Co. Ltd New Delhi*
10. *Consumer Behaviour – David Loudon and Albert Della Bitta., Tata McGraw-Hill.*
11. *Marketing Management- William Stanton.*
12. *Marketing Management- Philip Kotlar.*
13. *Marketing Management – a south Asian perspective: Kotler Phillip, Keller Kevin Lane, Koshy Abraham and Jha Mithileshwar, Pearson.*
14. *Marketing Management – Ramswamy V. S., Namakumari S., Macmillan Publishers India Ltd.*
15. *Marketing Management – Rajan Saxena, Tata McGraw Hill*
16. *Marketing Management: Text and Cases – Tapan Panda, Excel Books*
17. *Marketing – Etzel, Walker B., Stanton W., Pandit A., Tata McGraw Hill.*
18. *Marketing Management - Karunakarn K — Himalaya Publication, New Delhi.*

B.Com. Part-III; SEM-V (CBCS)**Paper-I : DSE-H1 : Advanced Banking (Banking Laws in India)**

Credits : 4

Course Outcomes:

1. Learners will be able to explain Regulatory Framework for Banking in India
2. Learners will understand the important laws relating banking sector
3. Learners will apply the knowledge of legal provisions for banking business practices
4. Learners will understand different provisions under cyber Laws

Expected Skills Impartation

4. Ability to apply legal provisions in banking business
5. Ability to understand the legal applications in banking sector
6. Ability to conduct proper banking activities as per legal provisions

Unit No.	Unit Name	Periods
1	Banking Laws 1.1. Need and Importance of Banking Laws 1.2. Banking Regulation Act 1949 1.3. New Bank Licensing Policy, 2013 1.4. Provisions for opening and closing of bank branches in India,	15
2	Banking Laws relating to Cooperative Banks 2.1. Co-operative Societies Act, 1912 2.2. Maharashtra Co-operative Societies Act, 1960 2.3. Multi State Co-operative Societies Act,2002 2.4. Employees Cooperative Credit Societies- Model Bye-laws in Maharashtra	15
3	The Negotiable Instrument Act, 1881 and Amendments 3.1. Meaning, Types, Features and Parties of Bill of Exchange 3.2. Meaning, Features and Parties of Promissory Note 3.3. Meaning, Types, Features and Parties of Cheque 3.4. Protection to a Paying Banker and Collecting Banker	15
4	Other Laws Relating to Banking 4.1. Important Provisions under Indian Contract Act, 1872 4.2. Garnishee Order-Meaning, Steps and Execution of Garnishee Order 4.3. Mortgage of Immovable Properties and Its Types 4.4. Banking Ombudsman Scheme 2006	15

References :

1. Arora and Kalra (1999), "All India Banking Law Digest, (1995-1999), Law House Delhi
2. Employees Cooperative Credit Societies - <https://sahakarayukta.maharashtra.gov.in>
3. ICSI (2015) Banking Law And Practice, <https://www.icsi.edu>
4. IIBF(2007), "Laws of Co-operative Banking", MacMillan India Ltd.,
5. M.L. Tannan, (2008) Banking Law and Practice in India, India Law House, New Delhi
6. M.L.Tannan, C.R. Datta & S.K. Kataria (2011) Banking Law and Practice, Wadhwa & Company
7. Maharashtra Co-operative Societies Act, 1960 <https://sahakarayukta.maharashtra.gov.in>

8. Multi State Co-operative Societies Act,2002 <https://mscs.dac.gov.in/Guidelines/GuidelineAct2002.pdf>
9. RBI (2019) Rationalisation of Branch Authorisation Policy- Revision of Guidelines <https://rbi.org.in/scripts/NotificationUser.aspx/Mode=0&Id=11570>
10. Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, New York, (2011)
11. Tannan (2001), “Banking Law & Practice in India” 20/e (Stud. ed), Law House Delhi

B.Com. Part-III; SEM-V (CBCS)

Paper-II : DSE-H2 : Advanced Banking (Retail and Corporate Banking)

Credits : 4

Course Outcomes:

1. Learners will be able to explain Retail and Corporate Banking systems
2. Learners will understand the Retail and Corporate Banking Practices
3. Learners will apply the knowledge in banking business

Expected Skills Impartation

1. Ability to differentiate Retail and Corporate Banking
2. Ability to conduct Retail Banking business
3. Ability to conduct Corporate Banking business

Unit No.	Unit Name	Periods
1	Introduction to Retail Banking 1.1. History, definition and concept of Retail Banking and Corporate Banking 1.2. Difference between Retail banking and Corporate banking 1.3. Importance of Retail banking to Indian Economy 1.4. Changing scenario of Retail Banking in India	15
2	Retail Banking Products 2.1. Home Loan - Types, Margin and Process of disbursement 2.2. Vehicle Loan - Types, Margin and Process of disbursement 2.3. Gold Loan - Nature and Process of disbursement 2.4. Educational - Nature and Process of disbursement	15
3	Corporate Banking 3.1. Need and Importance of Corporate Banking 3.2. Factoring and Forfeiting services 3.3. Infrastructure Finance Companies in India 3.4. Nature and Importance of Import-Export Finance.	15
4	Investment Banking 4.1. Meaning, Evolution and Scope of Investment Banking. 4.2. Meaning and Functions of Merchant Banking 4.3. Meaning and Nature of Venture Capital 4.4. Meaning and Importance of Loan Syndications.	15

References :

1. Indian Institute of Banking and finance (IIBF) (2015) Banking Products and Services, M/s Taxman

Publications Pvt. Ltd

2. Leichtfuss, Reinhold (2003) Achieving Excellence in Retail Banking, John Wiley and sons.
3. Indian Institute of Banking and finance IIBF (2010) International Banking, M/s Macmillan India Limited,
4. Mathav S B. (2013) Financial Management Mac-Millan Publications.
5. Yadhav S. S. (2014) Foreign Exchange Markets (Latest Edition) Mac-Millan Publications.
6. Indian Institute of Banking & finance (2018) Corporate Banking. Mac-Millan Publications.
7. Indian Institute of Banking and finance IIBF (2016)– International Corporate Finance. Mac-Millan Publications.
8. Pratap Giri S. (2017). Investment Banking: Concepts, Analyses and Cases, McGraw-Hill Education.
9. Subramanyam. (2017). Investment Banking: Concepts, Analyses and Cases, McGraw-Hill Education.
10. Ramamurthy Natarajan (2016). Corporate Banking: A Guide Book for Novice, Create Space Independent Publishing Platform.
11. Vikas Srivastava (2017) Project and Infrastructure Finance: Corporate Banking Perspective, Oxford University Press.

B.Com. Part-III; SEM-VI (CBCS)

Paper-IV : DSE-H4 : Advanced Banking (Financial Markets and Services)

Credits : 4

Course Outcomes:

1. Learners will be able to understand the nature and structure of Financial Market in India
2. Learners will understand business practices in money market and capital market
3. Learners will understand functioning of different Intermediaries in Financial Markets

Expected Skills Impartation

1. Ability to understand the procedure of security trading
2. Ability to apply knowledge for security trading
3. Ability to conduct security trading business

Unit No.	Unit Name	Periods
1	Introduction to Financial Markets in India 1.1. Structure of Financial System in India 1.2. Meaning and Role of Financial Markets in Economics Development 1.3. Structure of Capital Market - Primary and Secondary Capital Market 1.4. Instruments used in Indian Capital Market	15
2	Money Market and Capital Market 2.1. Meaning, Structure and Features of Money Market in India 2.2. Meaning, Structure and Features of Capital Market in India 2.3. Important Intermediaries - Banks, NBFCs and Other 2.4. Financial Instruments of Capital Market in India	15
3	Capital Market Operations 3.1 IPO - Meaning, Nature and Grading of IPO 3.2 Pricing of IPO - Fixed Price Issue and Book Building	15

	3.3 BSE and NSE - History, Management and Indices - Listing of Securities 3.4 Market Orders - Types of Orders for Selling and Buying of Stocks	
4	Intermediaries in Financial Markets 4.1. Role of Depository Organization- CDSL and NSDL 4.2. Indian Clearing Corporation Limited (ICCL) 4.3. Credit Rating Agencies- Functions, Institutes and their Rating Symbols 4.4. Programmes and Certifications of BSE Institute Ltd and NSE Academy	15

References :

1. Bhole I.M. (2009). Financial Institutions and Market, 5th edition, 2nd reprint in 2009 Tata McGraw Hill.
2. Benson Kunjukunju Et Al. (2012). Financial Markets and Financial Services in India, New Century Publication, New Delhi.
3. Preeti Singh (2016). Investment Management, Himalaya Publishing House Pvt. Ltd.,
4. Pawan Jhabak (2016). Securities Analysis and Portfolio Management, Himalaya Publishing House Pvt. Ltd.,
5. Avadhani V.A. (2016). Security Analysis & Investment Management, Himalaya Publishing House Pvt. Ltd.,
6. Avadhani V.A. (2016). Securities Analysis and Portfolio Management, Himalaya Publishing House Pvt. Ltd.,
7. Braam van den Berg (2015). Understanding Financial Markets & Instruments Academy of Financial Market, <https://eagletraders.com/books/afm/afm4.php>
8. NSE (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange Of India Limited
9. Michael K. (2002). Credit Rating Methodology, <http://www.psnacet.edu.in/courses/MBA/Financial%20services/17.pdf>
10. Issue Management, <http://www.psnacet.edu.in/courses/MBA/Financial%20services/13.pdf>
11. ICCL <https://www.icclindia.com>
12. BSE Institute Ltd <http://www.bsebti.com/>
13. NSE Academy - https://www.nseindia.com/education/content/about_ncfm.htm

B.Com. Part-III; SEM-VI (CBCS)**Paper-III : DSE-H3 : Advanced Banking (Bank Management Practices)**

Credits : 4

Course Outcomes:

1. Learners will be able to understand the nature and structure of Financial Market in India
2. Learners will understand business practices in money market and capital market
3. Learners will understand functioning of different Intermediaries in Financial Markets

Expected Skills Impartation

1. Ability to understand the procedure of security trading
2. Ability to apply knowledge for security trading
3. Ability to conduct security trading business

Unit No.	Unit Name	Periods
1	Administrative Structure of Head Office 1.1. Importance of Head Office of the Bank 1.2. Administrative Structure of Head Office 1.3. Departments in Head Office and Its Functions 1.4. Duties and Responsibilities of CEO /MD	15
2	Regional / Zonal Offices of the Bank 2.1. Importance of Regional / Zonal Offices of the Bank 2.2. Administrative Structure of Regional/ Zonal Offices 2.3. Functions and Role of Regional / Zonal Offices 2.4. Duties and Responsibilities of Regional/ Zonal Manager	15
3	Bank Branch Management 3.1. Structure of Branch Office - Small, Medium and Large Bank Branch 3.2. Duties and Responsibilities of Officer Incharge of Deposit Section 3.3. Duties and Responsibilities of Loan and Recovery Officer 3.4. Duties and Responsibilities of Cashier & Role of Branch Manager	15
4	Banking Business Practices 4.1. Principles of Banking Business and Its Importance 4.2. Investment Policy of the Bank- SLR and Non-SLR Investment 4.3. Nature and Importance of Internal and Statutory Audit of the Banks 4.4. Nature and Importance of Information and System Audit of the Banks	15

References :

1. George H. Hempel, Donald G. Simonson (2018). Bank Management: Text and Cases, Wiley, 2020 ISBN 0471410918
2. IIBF (2005). General Bank Management : (For Caiib Examinations), Indian Institute of Banking and Finance, Macmillan, 2005
3. Kanhaiya Singh (2013). Commercial Bank Management, Tata McGraw-Hill Education.
4. Peter S. Rose, Sylvia C. Hudgins (2008). Bank Management and Financial Services, McGraw-Hill Education.
5. Timothy W. Koch, S. Scott MacDonald (2014). Bank Management, Cengage Learning.
6. Timothy W. Koch, Steven Scott MacDonald, Vic Edwards, Randall E. Duran (2014). Bank Management: A Decision-Making Perspective, CENGAGE Learning Asia.
7. V.S.P. Rao (1999). Bank Management, Discovery Publishing House, 1999 ISBN 8171415105
8. Guidance Note on Audit of Banks (2018 Edition)- <https://www.puneicai.org/wp-content/uploads/Guidance->

Note-on-Audit-of-Banks-2018-Edition.pdf

9. Chitale MM (2018) Bank Audit - Bombay Chartered Accountants' Society-

<https://www.bcasonline.org/ContentType/3.%20MChitale.pdf>

10. RBI (2018) Checklists for Computer Audit, <https://rbidocs.rbi.org.in/rdocs/PublicationReport/Pdfs/33400.pdf>

11. Shiva Chaudhari (2017) A Guide to Risk Based Internal Audit System in Banks, Notion Press.

EQUIVALENCE OF THE PAPERS / COURSES

Sr.	Existing title of the Paper	Revised Title of the paper
1	Advanced Banking Paper – I	Advanced Banking P-I (Banking Laws in India)
2	Advanced Banking Paper – II	Advanced Banking P-II (Retail and Corporate Banking)
3	Advanced Banking Paper P-III	Advanced Banking P-III (Bank Management Practices)
4	Advanced Banking Paper P-IV	Advanced Banking P-IV (Financial Markets and Services)

Nature of question paper for B.Com -III Advanced Banking **Semester V & VI (Paper No. I to IV)**

Attempt any five questions.

Total marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com. Part-III Semester – V
Paper – I : DSE-I-1 : Rural Economics and Co-operation
(Optional Paper)

Course Outcomes:

1. Learners will be able to understand Rural Economy in India.
2. Learners will understand the correlation between Agriculture and Rural Development.
3. Learners will understand Agricultural productivity in India.
4. Learners will understand Role of Co-operation in Rural Development.

Unit I: - Rural Economy of India (15 Periods)

- 1.1 Rural Economy: Concept, nature and features
- 1.2 Importance of Rural Economy
- 1.3 Indicators of Rural Development
- 1.4 Problems of Rural Economy

Unit II:- Agriculture Sector and Rural Development (15 Periods)

- 2.1 Agriculture and Economic Growth
- 2.2 Peculiar Features of Indian Agriculture
- 2.3 Importance of Agriculture in Rural Development
- 2.4 Risk and Uncertainty in Indian Agriculture

Unit III: - Agricultural Productivity in India (15 Periods)

- 3.1 Agricultural Productivity: Meaning, types and determinants
- 3.2 Indian Agricultural Productivity
- 3.3 Causes of Low Agricultural Productivity
- 3.4 Measures to improve the Agricultural Productivity

Unit IV: - Introduction to Co-operation (15 Periods)

- 4.1 Co-operation: Meaning, definition and features
- 4.2 Principles of Co-operation (Manchester-1995)
- 4.3 Role of Co-operation in Rural Development
- 4.4 Issues in Cooperative Movement

References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

B.COM. Part - III Semester - V
(Optional Paper)
Paper – II : DSE-I-2 : Rural Economics and Co-operation

Course Outcomes:-

Student will be able to explain –

1. Awareness among the students regarding Rural Industrialization in India.
2. Agro based industries and small scale industries in India.
3. Non-credit co-operation and Rural Indebtedness in India.

Unit I - Rural Industrialization in India (15 Periods)

- 1.1 Need and concept of Rural Industrialization
- 1.2 Importance and problems of Agro-based Industries
- 1.3 Sugar Industry: Importance and problems
- 1.4 Dairy Industry: Importance and problems

Unit II- Cottage and Small-Scale Industries in India (15 Periods)

- 2.1 Meaning, features and difference between cottage and small-scale Industries
- 2.2 Role of Cottage and Small-Scale Industries.
- 2.3 Problems of cottage and Small-Scale Industries.
- 2.4 Government policy towards cottage and Small-Scale Industries

Unit III - Rural Indebtedness in India (15 Periods)

- 3.1 Meaning and nature of Rural Indebtedness.
- 3.2 Extent of rural indebtedness
- 3.3 Causes and effects of rural Indebtedness
- 3.4 Government measures to reduce rural indebtedness

Unit IV - Non-Credit Co-operatives in India (15 Periods)

- 4.1 Industrial Co-operatives: Types, functions and problems
- 4.2 Labour Co-operatives: Meaning, functions and problems
- 4.3 Consumers Co-operative: Types, functions and problems
- 4.4 Housing Co-operatives: Types, functions and problems

References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

B.Com. Part- III Semester – VI
Paper – III : DSE-I 3 : Rural Economics and Co-operation
(Optional Paper)

Course Outcomes:-

After completion of this course, the student will be able to-

1. Explain the rural resources in India.
2. Identify the problem of rural unemployment.
3. Understand the rural finance and agricultural co-operatives in India.

Unit I - Rural Resources in India (15 Periods)

- 1.1 Livestock: Concept, present status, importance and problems.
- 1.2 Poultry: Present status, importance and problems.
- 1.3 Fishery: Sources, present status, problems.
- 1.4 Forest Resources and forestry: Features and importance, social forestry.

Unit II - Rural unemployment in India (15 Periods)

- 2.1 Rural unemployment: meaning and nature
- 2.2 Types of rural unemployment
- 2.3 Causes of rural unemployment
- 2.4 Government programmes to reduce rural unemployment

Unit III - Rural Finance in India (15 Periods)

- 3.1 Need and sources of rural finance
- 3.2 Nationalized commercial banks
- 3.3 Regional Rural Banks
- 3.4 National Bank for Agriculture and Rural Development (NABARD)

Unit IV- Agricultural Co-operatives in India (15 Periods)

- 4.1 Co-operative farming: Types, problems and remedies
- 4.2 Co-operative Processing: Problems and remedies
- 4.3 Co-operative Marketing: Objectives, functions and problems
- 4.4 National Agricultural Co-operative Marketing Federation (NAFED): Functions and problems.

References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

B.Com. Part-III Semester – VI
Paper – IV : DSE- I 4 : Rural Economics and Co-operation
(Optional Paper)

Course Outcomes:-

After completion of this course, the student will be able to-

1. Understand rural infrastructure in India.
2. Explain rural poverty, food problem and food security in India.
3. Understand co-operative financial institutions in India.

Unit I - Rural Infrastructure in India (15 Periods)

- 1.1 Importance of infrastructure in rural development
- 1.2 Rural Electrification: Progress and problems
- 1.3 Irrigation facilities: Types, sources, progress and problems.
- 1.4 Transportation and Communication: Types, importance and problems.

Unit II - Rural Poverty in India (15 Periods)

- 2.1 Concept and types of rural poverty
- 2.2 Incidence of rural poverty
- 2.3 Causes of rural poverty
- 2.4 Poverty Alleviation Programmes

Unit III - Food Problem and Food Security in India (15 Periods)

- 3.1 Food problem: Different aspects of food problem.
- 3.2 Food Security: Meaning, definition and nature
- 3.3 Factors in Food Security
- 3.4 Remedies of Food Security

Unit IV - Co-operative Finance in India (15 Periods)

- 4.1 Meaning, Structure and Importance of Co-operative Finance.
- 4.2 Primary Agriculture Co-operative Credit Society: Functions and problems
- 4.3 District Central Co-operative Banks: Functions and problems
- 4.4 State Co-operative Banks: Functions and problems

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References:

- i) Misra S. K. and V. K. Puri, Indian Economy, Himalaya Publishing Bombay (Latest edition)
- ii) Dutt R. and K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi
- iii) R.K.Lekhi and Joginder Singh, Agricultural Economics, Kalyani Publishers, New Delhi
- iv) K.V. Patel , A.C. Shah and L.D. Mello , Rural Economics, Himalaya Publishing Bombay
- v) S.S.Shejal, Impact of Agri based Industries on Rural Economy ABS Publication, Varanasi
- vi) T.N.Hajela, Co-Operation, Ane Book Pvt. Ltd. New Delhi
- vii) Vijay Kavimandan, Agricultural and Rural Economics (Marathi) Shri. Mangesh Prakashan Nagapur
- viii) C.B.Mamoria, Agricultural problems in India, Kitab Mahal New Delhi
- ix) Vasant Desai, Rural Economics, Himalaya Publishing Bombay

EQUIVALENCE OF THE PAPERS / COURSES

Sr.	Existing title of the Paper	Revised Title of the paper
1	Rural Eco. & Co-operation (Optional) Paper -I	Rural Eco. & Co-operation (Optional) Paper -I
2	Rural Eco. & Co-operation (Optional) Paper- II	Rural Eco. & Co-operation (Optional) Paper- II
3	Rural Eco. & Co-operation (Optional) Paper -III	Rural Eco. & Co-operation (Optional) Paper -III
4	Rural Eco. & Co-operation (Optional) Paper -IV	Rural Eco. & Co-operation (Optional) Paper -IV

Nature of Question Paper for B.Com. - III
Subject- Rural Economics and Co-operation

Semester V and VI (Paper No. I to IV)

Attempt any five questions

Total Marks 40

Q1. Write short answers (any two out of three)	08
Q2. Broad question	08
Q3. Broad question	08
Q4. Broad question	08
Q5. Broad question	08
Q6. Broad question	08
Q7. Write short notes (any two out of three)	08

B.Com. Part-III- SEM-V (CBCS)
Paper I : DSE-J 1 : Advanced Statistics
(Mathematical Methods)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

1. Evaluate a determinant.
2. Obtain the inverse of a matrix using different methods.
3. Explain the use of permutation and combination.
4. Explain the Binomial theorem and its expansion.

Unit 1 Determinant:

Definition, evaluation of determinant of order 2 and 3, properties of determinant (without proof), Examples based on evaluation and properties, Cramer's rule, solution to given system of linear equations of two and three variables by Cremer's rule. [15 Periods]

Unit 2 Matrix Algebra:

Definition of matrix, Types of matrices, Addition, subtraction and product of two or more matrices, examples on addition, subtraction and product, Inverse of a matrix by adjoint method, Inverse of a matrix by row transformation, examples based on inverse.[15 Periods]

Unit 3 Permutation and Combination:

Concept of permutation, combination, notation, definition, Relation between them, examples based on nC_r and nP_r . [15 Periods]

Unit 4 Binomial Theorem:

Concept and definition of Binomial Theorem, Expansion of $(a + b)^n$, $(a - b)^n$, finding of middle term, r^{th} term and coefficient of r^{th} term in the expansion, Numerical problems.

[15 Periods]

Reference Books

- i) Business Statistics by S.S. Desai
- ii) Business Statistics by G.V. Kumbhojkar
- iii) Introduction to Mathematical Statistics by S.C. Gupta.
- iv) Mathematics & Statistics by Sureanjan Shah
- v) Text book of matrices by Shanti Narayan
- vi) Elements of Statistics, by D. N. Elhance
- vii) Fundamentals of Applied Statistics, by V. K. Kapoor.
- viii) Business Statistics, by G. C. Beri.

B.Com. Part-III- SEM-V (CBCS)
Paper II : DSE-J 2 : Advanced Statistics
(Applied Statistics)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

1. Explain the concept of demography and terms related to it.
2. Use the life table and mortality table in real life situations.
3. Understand the concept of hypothesis testing and different tests of hypothesis.
4. Perform testing of hypothesis for the real-life examples.

Unit 1 Measures of Mortality and Fertility:

Concept of demography, vital events, Different measures to measure birth rates such as i) CBR ii) GFR iii) ASFR iv) TFR. Definition, formula, merits and demerits, example based on these rates. Different measures of mortality i.e. death rates such as i) CDR ii) SDR iii) STDR by direct method, Example based on these rates. [15Periods]

Unit 2 Measures of Population growth or Reproduction rates:

Limitations/definition of fertility rate, Introduction of measures of population growth, measures such as GRR and NRR, Definition, formulas, merits and demerits of each one, examples based on these measures. [15Periods]

Unit 3 Life table or Mortality table:

Definition, types of life table, various columns of life table, construction of life table, Examples based on fill in the blanks or total construction when x and $l(x)$ is known. Uses of life table. [15Periods]

Unit 4 Testing of Hypothesis:

Definition of Parameter, Statistic, Hypothesis (simple and composite, null and alternative), Critical Region, level of significance, Type-I and Type-II errors.

- a) Large sample tests for variables (z test): Test for $\mu = \mu_0$ and $\mu_1 = \mu_2$
- b) Large sample tests for proportion: Test for $p = p_0$ and $p_1 = p_2$
- c) Student's t test: Test for $\mu = \mu_0$ and $\mu_1 = \mu_2$

- d) Chi square test: Chi-square test of independence of two attributes (for $m \times n$ contingency table), derivation of formula for 2×2 contingency table. Examples based on these tests.
e) Snedecore's F test: Test for $\sigma_1^2 = \sigma_2^2$ [15Periods]

Reference Books

- i) Business Statistics by S.S. Desai
- ii) Business Statistics by G.V. Kumbhojkar
- iii) Introduction to Mathematical Statistics by S.C. Gupta.
- iv) Mathematics & Statistics by Sureanjan Shah
- v) Text book of matrices by Shanti Narayan
- vi) Elements of Statistics, by D. N. Elhance.
- vii) Fundamentals of Applied Statistics, by V. K. Kapoor.
- viii) Business Statistics, by G. C. Beri.

B.Com. Part-III- SEM-VI (CBCS)
Paper III : DSE-J 3 : Advanced Statistics
(Probability and Probability distributions)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

- i) Explain the concept of probability and compute the probability of various events.
- ii) Explain the concept of mathematical expectation and derive it.
- iii) Understand discrete probability distributions in general.
- iv) Understand Binomial, Poisson and Normal distributions

Unit No. 1 Probability

Concept and definitions of various terms used in probability, definition of probability. Examples based on definition. Addition and Multiplication laws of probability (with proof). Bayes theorem (Statement only). Examples on conditional probability and Bayes theorem.

[15 Periods]

Unit No. 2 Mathematical Expectation

Definition and examples based on mathematical expectation. Addition and Multiplication theorems on mathematical expectation (with proof). Examples based on these theorems. [15 Periods]

Unit No.3 Discrete probability distribution

Definition of probability mass function (pmf) distribution function (cdf). Properties of distribution function. Numerical Examples. [15 Periods]

Unit No. 4 Probability distributions

Binomial, Poisson and Normal distributions: Definition, properties and examples based on these distributions. Mean and variance of binomial and Poisson distributions (with Proof). Poisson distribution as limiting case of binomial distribution (with Proof). Limitations of Binomial distribution. Properties of normal curve. Fitting of Binomial and Poisson Distributions.

[15 Periods]

Reference Books for paper III:

- i) Business Statistics by S.S. Desai, Publisher: Jai-Gouri
- ii) Business Statistics by G.V. Kumbhojkar, Publisher: Phadake
- iii) Introduction to Mathematical Statistics by S.C. Gupta and V.K. Kapoor Sultan Chand & Sons, Delhi.

B.Com. Part-III- SEM-VI (CBCS)
Paper – IV : DSE-J 4 : Advanced Statistics
(Operations Research)
(Optional Paper)
Credit -4

Course Outcomes:

After completion of this course, students will be able to:

- i) Formulate and solve a linear programming problem.
- ii) Solve transportation problem using various methods.
- iii) Solve assignment problem using Hungarian method.
- iv) Solve Sequencing Problem.

Unit No. 1 Linear Programming Problem

Concept, formulation of Linear Programming Problem (L.P.P.). Solution of L.P.P. by graphical method. Examples based on minimization and maximization of given function.

[15 Periods]

Unit No. 2 Transportation problem

Concept, Mathematical Model, Balanced and Unbalanced Transportation problem (T.P.). Solution of T.P. by i) NWCR method ii) Least cost method, iii) Vogel's method. Examples based on these methods.

[15 Periods]

Unit No. 3 Assignment Problem

Concept, Mathematical Model, Balanced and Unbalanced Assignment Problem (A.P.) Hungarian method to obtain solution. Examples by Hungarian method.

[15 Periods]

Unit No. 4 Sequencing Problem

Concept of sequencing, sequencing of n jobs through 2 machines, and n jobs through 3 machines. Stepwise procedure. Examples to determine the sequencing and total time required. Also to find Idle time of the machine.

[15 Periods]

Reference Books for paper IV

- i) Operations Research by S. D. Sharma, Publisher: Kedar Nath.
- ii) Operations Research: An Introduction by H A Taha, Publisher: Pearson.
- iii) *Operations Research: Theory and Application*, J.K. Sharma, Publisher. Macmillan.

EQUIVALENCE OF THE PAPERS / COURSES

Sr.	Existing title of the Paper	Revised Title of the paper
1	Advanced Statistics Paper I (Mathematical Methods)	Advanced Statistics Paper I (Mathematical Methods)
2	Advanced Statistics Paper II (Applied Statistics)	Advanced Statistics Paper II (Applied Statistics)
3	Advanced Statistics Paper III (Probability and Probability distributions)	Advanced Statistics Paper III (Probability and Probability distributions)
4	Advanced Statistics Paper - IV (Operations Research)	Advanced Statistics Paper - IV (Operations Research)

Nature of question paper for B.Com -III

Semester V & VI (Paper No. I to IV)

Attempt any five questions.

Total marks 40

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 08 |
| Q2. Broad question | 08 |
| Q3. Broad question | 08 |
| Q4. Broad question | 08 |
| Q5. Broad question | 08 |
| Q6. Broad question | 08 |
| Q7. Write short notes (any two out of three) | 08 |

B.Com Part – III Semester V

Paper-I: DSE-K1: E-Commerce

Course Outcome –

1. **Understanding the basic structure of E-Commerce industry**
2. **Understanding transactional flow in E-Commerce**

Sr No.	Topic	No of Lectures
Unit 1	<p>Introduction to Electronic Commerce</p> <ul style="list-style-type: none"> • What is E-Commerce • Goals of E-Commerce • Functions of E-Commerce • Potential of E-Commerce Industry • Various e-commerce platforms at present • Types of E-Commerce segments (B2C, B2B, C2C etc.) <p>Practical – Get preliminary information of various E-Commerce companies</p>	15
Unit 2	<p>E-Commerce Framework</p> <ul style="list-style-type: none"> • Introduction to E Commerce Structure / Framework • Internet • e-Commerce Portal / ERP System • Warehouse • Point of Sale (POS) • Payment Gateway • Call Centre • Data Analytics • CRM (Customer Relationship Management) <p>Practical – Draw Diagram of framework of any e-commerce company based on some practical research</p>	15
Unit 3	<p>Electronic Payment System</p> <ul style="list-style-type: none"> • Introduction • Modes of Electronic payments (net banking, debit / credit card, payment wallets etc.) • Online payment process • Security controls • Online frauds & cautions to be taken care of • Online payment service providers <p>Practical – Prepare case study paper on online fraud</p>	15

Unit 4	<p>Online Order Processing</p> <ul style="list-style-type: none"><li>• Order Intimations<li>• Shipping & Billing<li>• Bar Code System<li>• Shipment Tracking<li>• Order Dashboard<li>• Account Settlement <p>Practical – Visit any online seller and observe order processing activities</p>	15
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B.Com Part – III Semester III

Paper-II : DSE-K2 : E-Commerce

Course Outcome –

1. Understanding the various functions of E-Commerce industry
2. Understanding of cyber security threats and remedies
3. Understanding of basics of digital marketing

Sr No.	Topic	No of Lectures
Unit 1	Supply Chain & Warehouse Management <ul style="list-style-type: none">• Packaging of Products• Inventory Management – Coding, storage & monitoring• Security Controls Practical – Visit any seller company who sales online and observe the warehouse management systems	15
Unit 2	Digital Marketing Basics <ul style="list-style-type: none">• Various avenues of digital marketing• Difference between traditional marketing and digital marketing• SEO (Search Engine Optimization)• Recent Trends in digital marketing Practical – Visit any Digital marketing service provider company and interact	15
Unit 3	Cyber Laws & Intellectual Property Rights, Internet Security <ul style="list-style-type: none">• Types of cyber threats (financial, virus, hacking etc.)• Introduction to Information Technology Act• Importance of Trade Mark, Patents & Copy Right• Consequences of Infringement Practical – Visit any Cyber Law Professional / IPR service provider company and interact	15
Unit 4	CRM (Customer Relationship Management) <ul style="list-style-type: none">• What is CRM• Use of Technology for CRM• Future of Industry• New Marketing Trends• Loyalty Programmes Practical – Make short study on CRM softwares used in the market	15

Reference Books:

1. Concepts of E-Commerce by Adesh Pandye
2. E-Commerce by Sarika Gupta and Gaurav Gupta
3. E-Commerce Strategy, Technology and Implementation by Gary Schneider
4. The Complete E-Commerce Book by Janice Reynolds

B.Com Part – III Semester VI

Paper-III : DSE-K3 : E-Commerce

Course Outcome –

4. Understanding the various functions of E-Commerce and its technological aspect.
5. Understanding of consumer oriented e Commerce and e retailing.
6. Understanding of basics of digital marketing

Sr No.	Topic	No of Lectures
Unit 1	Internet Concepts & Technologies: <ul style="list-style-type: none"> • Concept & evolution of internet • Web technologies – Global Publishing concept, hypertext, • Concepts of URLs, HTTP, HTTPD, Servers, HTML, HTML Forms & CGI gateway services. 	
Unit 2	E-Commerce and its Technological aspect: <ul style="list-style-type: none"> • Developments in Information Technology and its relevance to E-Commerce • The scope of E- Commerce, E- Marketing • Benefits and limitations of E-Commerce, • Produce a generic framework for E-Commerce. • Architectural framework of Electronic Commerce, Web based E Commerce Architecture. <p><i>Practical – Conduct interview of minimum 5 online shop holders and observe their management systems</i></p>	15
Unit 3	Consumer Oriented E- Commerce and E-Retailing: <ul style="list-style-type: none"> • Traditional retailing and e retailing, Benefits of e retailing, • Models of e retailing, Features of e retailing. • E services: Categories of e-services, Web-enabled services, matchmaking services, Information-selling on the web, • E entertainment, Auctions and other specialized services. • Business to Business Electronic Commerce <p><i>Practical – identifying customer oriented e-Services and develop models of E-services</i></p>	15

Unit -4	Electronic Data Interchange: <ul style="list-style-type: none"> • Benefits of EDI, EDI technology, EDI standards, EDI Communications, EDI Implementation, EDI Agreements, EDI Security. • Electronic Payment Systems, Need of Electronic Payment System: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. • Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet. <p><i>Practical – Conduct Dumy bank transaction and write detail process of Electronic payment system, Fund transfer syste.</i></p>	15
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Reference Books:

1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.
2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley. 3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A ManagerialPerspective", Addison-Wesley.
4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education.

B.Com Part – III Semester VI

Paper-IV : DSE-K4: E-Commerce

Course Outcome –

1. **Understanding the various functions of E-Commerce ad its technological aspect.**
2. **Students able to know the security issues in E-Commerce.**
3. **Understanding of basics of digital marketing**

Sr No.	Topic	No of Lectures
Unit 1	Website Design and E-Commerce <ul style="list-style-type: none"> • Role of web – site in B2C e-commerce; website strategies & web-site design principles; • Push & pull technologies, alternative methods of customer communication. <p>Multi – Media & E-commerce; push & pull technologies, alternative methods of customer communication</p>	15

Unit 2	Online Retail Sector: <ul style="list-style-type: none"> • Analyzing the Viability of Online Firms • E-commerce in Action: E- Retailing Business Models <ul style="list-style-type: none"> • The Service Sector: Offline and Online • Online Financial Services • Online Travel Services • Online Career Services • • On-Demand Service Companies 	15
Unit 3	Security Issues in E-Commerce: <ul style="list-style-type: none"> • Introduction, need and importance • Security risks of e-commerce, exposure of resources, • Type of threats, sources of threats, • Security tools & risk – management approach 	15
Unit 4	Ethical, Social and Political issues in E-Commerce: <ul style="list-style-type: none"> • Basic Ethical Concepts, Analyzing Ethical Dilemmas, Candidate Ethical principles • Privacy and Information Rights: Information collected at E-Commerce Websites, The Concept of Privacy, Legal protections • Intellectual Property Rights: Types of Intellectual Property protection, Governance. <p><i>Practical – Prepare case study and project report on ethical, political and social issues E-Commerce</i></p>	15

Reference Books:1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.

2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley. 3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A ManagerialPerspective", Addison-Wesley.

4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education.

B. Com (CBCS Pattern)Part- III (Semester-V)

Paper IX : Tax Procedure and Practice

Title of paper- GST (CGST, SGST and IGST)

Generic Elective Course

(Credit 4)

Objectives:- 1) To enhance the knowledge of students with latest amendments in GST Law

2) To clarify the technical aspects and provisions in GST Law

Unit- I	GST Returns (Furnishing details of outward supply, Furnishing details of inward supply, First Return, Annual Return, Final Return, matching of Input Tax Credit)- Specimen Forms for the Returns	Periods-20
Unit- II	1) Sec. 35 Accounts and Sec. 36 Records (Period of Retention, Rules for maintenance of Accounts) 2) Sec. 67 Inspection, Search and Seizure (Power of Inspection, Authority for Search and Seizure)	Periods-10
Unit- III	TCS and TDS, Payment of GST (payment of tax, Interest etc.)	Periods- 10
Unit- IV	Basic Problems- Net GST liability, Time of Supply, Value of Supply	Periods- 20

B. Com (CBCS Pattern)Part- III (Semester-VI)

Paper XI : Tax Procedure and Practice

Title of paper- GST (CGST, SGST and IGST)

Generic Elective Course

Credit-4

Objectives:- 1) To enhance the knowledge of students with latest amendments in GST Law

2) To clarify the technical aspects and provisions in GST Law

Unit- I	Refund of GST (Refund of Tax, Interest on delayed refund	Periods-10
Unit- II	1) Assessment- Self Assessment, Provisional Assessment, Summery Assessment, Scrutiny Assessment, Best Judgment Assessment 2) Audit- Sec. 65- Audit by Tax Authorities Sec. 66- Special audit	Periods-10
Unit- III	1) Appeals and Revision (Appeals to appropriate authority, power of revisional authority) 2) Advance Rulings (Authority for advance rulings, application and procedure)	Periods- 20
Unit- IV	Basic Problems- Admissibility of ITC, Calculation of net GST liability, Composition levy	Periods- 20

B.com- III
Semester V and VI (CBCS Pattern)
Tax Procedure and Practice- GST (CGST, SGST and IGST)
Nature of Question Paper

Internal Marks- 10 marks
Shivaji University Exam 40 marks

Instructions:-

- 1) All question carry equal marks
- 2) Attempt any Five questions out of Seven

Q. 1	Theory- Short Notes (Any Two out of Four)	08 marks
Q. 2	Theory Broad Question	08 marks
Q. 3	Theory Broad Question	08 marks
Q. 4	Problems	08 marks
Q. 5	Problems	08 marks
Q. 6	Problems	08 marks
Q. 7	Problems	08 marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax procedure and practice GST (CGST, SGST and IGST) paper- IX (Vocational)	Tax procedure and practice GST (CGST, SGST and IGST) paper- IX (CBCS)
2	Tax procedure and practice GST (CGST, SGST and IGST) paper- XI (Vocational)	Tax procedure and practice GST (CGST, SGST and IGST) paper- XI (CBCS)

Reference Books:-

- 1) A Birds eye view- Jha and Singh
- 2) GST made simple- Taxman
- 3) Basics of GST- Taxman
- 4) GST guide for Students- CA Vivek Agarwal

B. Com (CBCS Pattern) Part III (Semester V)

Paper X : Tax Procedure & Practice

Title of Paper – **Customs**

Generic Elective Course

Credit – 4

Objectives : -

1	To impart theoretical knowledge of Basic concepts of customs, import & export.
2	To develop the skills of solving problems of valuation and calculation of custom duties on imported goods.
3	To acquaint students with the term prohibition on import & export in customs.

Unit I	Introduction of Customs, Role in international trade, organization of customs in India, administration & operational authorities.	10 Hours
Unit II	An overview of Customs Act, 1962, Customs Tariff Act, 1975. Kinds of duties - Basic, Protective, CGST, safeguard, Anti-dumping, anti-subsidy, countervailing, NCCD, cess	10 Hours
Unit III	Important terms & definitions - Assessable value, baggage, Bill of Entry, Bill of Export, Dutiable Goods, Foreign Going Vessel, Exporter, Import Manifest, Prohibited Goods, Shipping Bill, Bill of Lading, Import, Importer, Stores, Letter of Credit, FOB, CIF, Goods Prohibition on importation & exportation of goods & it's reasons, Smuggling	30 Hours
Unit IV	Basic problems- Valuation of imported goods, calculation of custom duty	10 Hours

B. Com (CBCS Pattern) Part III (Semester VI)
Paper XII : Tax Procedure & Practice
 Title of Paper – **Customs**
 Generic Elective Course

Credit - 4

Objectives : -

1	To understand the meaning of types & modes of import & export.	
2	To impart theoretical knowledge of import & export clearance procedure of goods in detail.	
3	To enhance the knowledge of students with the practical solutions of computation of Baggage.	

Unit I	<u>Import of Goods</u> - Types of import- Free, Restricted, Prohibited types of licenses - Advance, EPCG,DFRC, Modes of import <u>Export of Goods</u> - Types of export, types of Exporter, Modes of export	10 Hours
Unit II	<u>Clearance Procedure of Import & Export</u> Import - For Home Consumption, for warehousing, Ex-bond clearance Export -Procedure & filing of documents, Main, auxiliary & regular	20 Hours
Unit III	<u>Duty Drawback System</u> Meaning of scheme, Sec 74 & sec 75, Rules for drawback, Documents required for claiming drawback, types of duty drawback	10 Hours
Unit IV	<u>Clearance of Baggage</u> Meaning and kinds of baggage, Rules & procedure of import thereof Basic problems on clearance of baggage & calculation of custom duty thereon	20 Hours

<p style="text-align: center;">B.Com. Part-III Semester – V (Optional Paper) Industrial Management Paper – I Subject Code: DSE – B1 (Factory and Capital Management)</p>		
<p>Objectives:-</p> <ol style="list-style-type: none"> 1. To make students familiar with the subject industrial management. 2. To expose the students the importance and applicability of industry management. 		
<p>Learning Outcomes</p> <ol style="list-style-type: none"> 1. Understanding the concept Industrial Management. 2. Acquaintance with the Work Environment. 3. Acquaintance with the Plant Maintenance. 4. Acquaintance with Financial Management 		
<p>Teaching Methods: <i>Lecture, Interactive ICT Based Use of case lets</i> <i>Lecture Interactive ICT Based Discussion Method</i></p>		
Sr. No	Content	No. of Lectures
1	<p>Unit I:-</p> <p>1.1 Introduction to Industrial Management– Meaning and importance of industrial management.</p> <p>1.2 Introduction to Enterprise Resource Planning (ERP), System Application and Product (SAP)</p> <p>1.3 Factory Location and Plant Layout-</p> <p>1.3.1 Factory Location: Meaning of location of factory, factors determining location of factory</p> <p>1.3.2 Plant Layout: Meaning of plant layout Objectives, Importance of plant layout, Factors influencing layout, Types of layout Problems of layout.</p>	20
2	<p>Unit II :- Work Environment -</p> <p>2.1 Meaning</p> <p>2.2 importance of work Environment</p> <p>2.3 Factors affecting work environment, Lighting, Ventilation, Sanitation, noise control and Air conditioning</p> <p>2.4 Quality Circles, Kaizen, 5 S,</p>	20
3	<p>Unit III :- Plant Maintenance –</p> <p>3.1 Concept, Importance</p>	10

	<p>3.2 Objectives of good maintenance system</p> <p>3.3 types of maintenance</p> <p>3.4 Preventive Maintenance</p> <p>3.5 Recent trends in plant maintenance</p>	
4	<p>Unit IV – Financial Management</p> <p>4.1 Concept of financial Management,</p> <p>4.2 Objective of Financial management</p> <p>4.3 Importance and Determinants of Capital Management</p> <p>4.4 Sources of finance</p> <p>4.5 Fixed and working capital</p>	10
	<p>References for Paper I to IV :</p> <ol style="list-style-type: none"> 1. L. C. Jhamb: Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain : Industrial Management\ Kitab Mahal– Agre 3. K. Aswathappa: Production and Operations Management 4. K. ShridharaBhat – Himalaya Publishing House 5. M. E. ThukaramRao: Industrial Management Himalaya Publishing House 6. Lundy J. L. : Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M. : Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting: B. K. Bhar 9. C. B. Mamoria Gankar: Dynamics of Industrial Relations 10. O. P. Khanna: Industrial Engineering and Management 11. K. Ashwathappa: Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi 	

	<p>B.Com. Part-III</p> <p>Semester – V</p> <p>(Optional Paper)</p> <p>Industrial Management Paper – II Subject Code: DSE – B2</p> <p>(Human Resource Management)</p>
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	Objectives: <ol style="list-style-type: none"> 1. To make students familiar with the subject human resource management. 2. To expose the students the importance and applicability of human resource management. 	
	Learning Outcomes: <ol style="list-style-type: none"> 1. Knowledge about the Human Resource Management 2. Acquaintance with the Human Resource Management 3. Acquaintance with the Employee Training. 4. Acquaintance with - Recent Trends in HRM 	
	Teaching Methods: Lecture, Interactive ICT Based Use of case lets. Lecture Interactive ICT Based Discussion Method	
Sr. No	Content	No. of Lectures
1	Unit I - Introduction to Human Resource Management- <ol style="list-style-type: none"> 1.1 Concept and Nature 1.2 Scope 1.3Significance 1.4 Objectives 1.5 Functions of HRM. 1.6 Ethical Issues In HRM: Meaning, Importance and Ethical Issues In HRM 	10
2	Unit II – Human Resource Planning (HRP) <ol style="list-style-type: none"> 2.1Meaning and need for Human resource Planning, Process of HRP Factors affecting HRP 2.2Job Analysis, Job Description, Job Specification. 2.3Recruitment and selection- <ol style="list-style-type: none"> 2.3.1 Meaning, 2.3.2 Sources of recruitment 2.3.3 Steps in the scientific selection procedure 2.3.4 e- recruitment: Meaning and Advantage 	20
3	Unit III – Employee Training and Performance Appraisal <ol style="list-style-type: none"> 3.1Employee Training- <ol style="list-style-type: none"> 3.1.1 Meaning 3.1.2 Need for training 3.1.3Steps in training 3.1.4Methods of Training 3.1.5Impediments of effective training 3.2Performance Appraisal and Merit Rating <ol style="list-style-type: none"> 3.2.1 Meaning 	20

	<p>3.2.2 purpose of performance appraisal</p> <p>3.2.3 Methods of performance appraisal 3.2.3 Ethics in performance appraisal</p> <p>Merit Rating-</p> <p>3.2.4 Meaning</p> <p>3.2.5 Benefits of Merit Rating,</p> <p>3.2.6 Difference between performance appraisal and merit rating</p>	
4	<p>Unit IV :- Recent Trends in HRM –(Concept and Nature)</p> <p>4.1 Employee's brand</p> <p>4.2 Outsourcing of HR</p> <p>4.3 e-HRM</p> <p>4.4 Work Life Balance</p> <p>4.5 Emotional Intelligence and Talent Management</p>	10
	<p>References for Paper I to IV:</p> <ol style="list-style-type: none"> 1. L. C. Jhamb : Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain : Industrial Management\ 3. K. Aswathappa : Production and Operations Management 4. K. Shridhara Bhat – Himalaya Publishing House 5. M. E. Thukaram Rao : Industrial Management Himalaya Publishing House 6. Lundy J. L. : Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M.: Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting: B. K. Bhar 9. C. B. Mamoria Gankar : Dynamics of Industrial Relations 10. O. P. Khanna : Industrial Engineering and Management 11. K. Ashwathappa : Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi 	

<p>B.Com. Part-III</p> <p>Semester - VI</p> <p>(Optional Paper)</p> <p>Industrial Management Paper – III Subject Code: DSE – B3</p> <p>(Production Management)</p>	
	<p>Objectives:</p> <ol style="list-style-type: none"> 1. To make students familiar with the subject industrial management. 2. To Expose the students the importance and applicability of industrial management

	<p>Learning Outcomes: Understanding the Meaning concept of Production Management and PPC. Acquaintance with the Productivity. Acquaintance with the Inventory Management Acquaintance with Logistic Management</p>	
	<p>Teaching Methods: 1. Lecture, Interactive ICT Based Use of case lets. 2. Lecture Interactive ICT Based Discussion Method</p>	
Sr. No	Content	No. of Lectures
1	<p>Unit I:- Production Management and Planning and Control (PPC): – 1.1Production Function- 1.1.1 Meaning, Concept and Objectives 1.1.2 Function of production Management 1.2Planning and Control (PPC): 1.2.1 Meaning 1.2.2 Objectives 1.2.3Importance of production planning and control 1.2.4 Techniques of production control Routing, Scheduling, Dispatching and follow up 1.2.5 Limitations of PPC.</p>	20
2	<p>Unit II :- Productivity - 2.1Meaning, Importance 2.2Measurement of Productivity 2.3Factors influencing productivity 2.4Methods of improving productivity 2.5ProductionV/s Productivity.</p>	10
3	<p>Unit III :- Inventory Management 3.1 Meaning and Objectives of inventory Management 3.2 Receipt and issue of material (Bin Card, Store Ledger) 3.3 Pricing of material Issues (First In First Out and Last In First Out) 3.4 EOQ 3.5 ABC Analysis and VED Classifications 3.6 Just in Time (JIT) Production – Meaning, Techniques and Advantages. 3.7 Recent Trends in Inventory Management.</p>	20

4	Unit IV :- Logistic Management- 4.1 Meaning 4.2 Objectives 4.3 Importance of logistic Management, 4.4 Activities of the logistics Management 4.5 Functions-Transportation, Warehousing including Cold Storage Material handling and Packaging. 4.6 Supply chain Management: Meaning, Definition and Importance	10
	References 1. L. C. Jhamb: Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain: Industrial Management\ Kitab Mahal– Agre 3. K. Aswathappa : Production and Operations Management 4. K. Shridhara Bhat – Himalaya Publishing House 5. M. E. Thukaram Rao : Industrial Management Himalaya Publishing House 6. Lundy J. L.: Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M.: Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting : B. K. Bhar 9. C. B. MamoriaGankar : Dynamics of Industrial Relations 10. O. P. Khanna : Industrial Engineering and Management 11.KAshwathappa : Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi	

B. Com. Part-III Semester – VI (Optional Paper) Industrial Management Paper – IV Subject Code: DSE – B4 (Personnel Management)	
	Objectives: 1. To make students familiar with the subject industrial management. 2. To expose the students the importance and applicability of industry management.
	Learning Outcomes: 1. Knowing the meaning and concept about the Employee Remuneration. 2. Acquaintance with the Industrial Relations. 3. Acquaintance with the Employee Safety, Health and Moral 4. Acquaintance with HR Accounting

	Teaching Methods: <i>Lecture, Interactive ICT Based Use of case lets.</i> <i>Lecture Interactive ICT Based Discussion Method</i>	
Sr. No	Content	No. of Lectures
1	Unit I:- Employee Remuneration – 1.1 Concepts of remuneration 1.2 Meaning of wages and salary 1.3 Objectives of wage and salary administration 1.4 Factors influencing wage and salary structure and administration 1.5 Methods of wage payment Time rate, Piece rate 1.6 Incentive plans (Halsey, Rowan and Taylor)	10
2	Unit II :- Industrial Relations – 2.1 Meaning, Objectives and Significance of industrial relations 2.2 The parties to industrial relations 2.3 Factors affecting industrial relations. 2.4 Meaning and Causes of industrial Disputes 2.5 Measures taken by Govt. to prevent Industrial disputes.	20
3	Unit III :- Employee Safety, Health and Moral: 3.1 Meaning and need of employee safety 3.2 Factors in safety programme Meaning and importance of employee health 3.3 Occupational hazards, risks and diseases 3.4 Protection against health hazards and statutory provisions under The Factories Act, 1948– Health, safety and welfare provisions 3.5 Meaning of employee morale.	20
4	HR Accounting: 4.1 Meaning, Definition and Objectives 4.2 Advantages of HR Accounting 4.3 Determinants of Human Capital 4.4 Methods of HR Accounting	10
	References for Paper I to IV: 1. L. C. Jhamb : Industrial Management Savitri Jhamb Everest Publishing House, Pune 2. J. K. Jain : Industrial Management\ Kitab Mahal– Agre 3. K. Aswathappa : Production and Operations Management 4. K. Shridhara Bhat – Himalaya Publishing House 5. M. E. Thukaram Rao : Industrial Management Himalaya Publishing House 6. Lundy J. L. : Effective Industrial Management Eurasia Publishing Co. 7. Srivastava R. M.: Management Policy and Strategic Management Concepts, Skills and Practices 8. Cost Accounting: B. K. Bhar 9. C. B. Mamoria Gankar: Dynamics of Industrial Relations	

	<p>10. O. P. Khanna : Industrial Engineering and Management 11.KAshwathappa : Human Resource Management, Tata McGraw Hill, New Delhi 12. A. K. Ahuja : Industrial Management, Kalyani Publishers, New Delhi.</p>	
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SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A++' Grade

NATIONAL EDUCATION POLICY (NEP-2020)

Syllabus For

B. Sc. Part-I
Physics

Syllabus to be implemented from AUGEST, 2022 onwards

Department of
Physics, Shivaji
University, Kolhapur
B. Sc. –Part-I (Physics) Course Structure

NOTE:

The following in a nutshell gives the scope and extent of each course offered. Each core theory course has two levels of teaching: Lectures and practical's.

B.Sc. (Physics) NEP-2020				
Part-I (Semester-I)				
	Sr. No	Course code	Course Title	Credits
CGPA	1	DSC A1	Mechanics - I	2
	2	DSC A2	Mechanics - II	2
	3	DSC B1	Electricity and Magnetism-I	2
	4	DSC B2	Electricity and Magnetism-II	2
	5	DSC A DSC B	i. Lab - Mechanics ii. Lab - Electricity & Magnetism	2 2
Non-CGPA	6	AECC-1 AECC-2	English for communication English for communication	
Non-CGPA	7	SEC	Skill Enhancement Course	

Science Structure

Sem	DSC	DSE/OEC/G EC/ IDS	AECCLangages and Env Sci	SEC (Multidiscipli nary)	Total Credits
I	$4 \times (4+2) = 24$		1x 4= 4 ENG	SEC -I(1) VBC(1)	30
II	$4 \times (4+2) = 24$		1x 4= 4 ENG	SEC-II(2)	30
III	$3 \times (4+4) = 24$	--	-	SEC-III(2)	26
IV	$3 \times (4+4) = 24$	--	1x 4= 4 (EVS)	SEC- IV(2)	30
V		DSE $4 \times (2 \times 2) = 16$	1x 4= 4 ENG	SEC-V(2)	22
VI		DSE $4 \times (2 \times 2) = 16$	1x 4= 4 ENG	SEC -VI(2)	22
			Total		160

Shivaji University, Kolhapur
B. Sc. Part – I Semester-I(NEP-2020)
PHYSICS PART-I
DSC A1 MECHANICS-I
Theory: 30 Hours Marks-50 (Credits: 02)

Unit-I

1. **Vector Algebra and Elementary Calculus** : (9 Hours)
Revision– (Vector Algebra: Components of Vectors and Unit Vector, Addition and Subtraction of Vectors), Scalar product, Vector product and their properties, Scalar triple product and its physical significance, Properties of scalar triple product, Vector triple product, properties of vector triple product. Derivatives of a vector with respect to a parameter (velocity and acceleration).
2. **Ordinary Differential Equations:** (6 Hours)
Differential equation, degree, order, linearity and homogeneity of differential equation, Types of Differential Equations: Ordinary and Partial differential equations, First order homogeneous differential equations, Second order homogeneous differential equations with constant coefficients, Examples.

Unit -II

1. **Conservation Theorems** : (9 Hours)
Single particle: Conservation theorem for linear momentum of a particle, Conservation theorem for angular momentum of a particle, work-energy theorem, Conservation theorem for energy of a particle.
System of particles: Center of mass, Conservation theorem for linear momentum, Conservation theorem for angular momentum, Conservation theorem for energy.
2. **Rotational Motion:** (6 Hours)
Angular velocity, Angular momentum, Torque, Kinetic energy of rotation, Moment of Inertia, Moment of inertia of a spherical shell about its diameter, Moment of inertia of solid cylinder about its axis of symmetry.

Reference Books:

1. Mathematical Physics -B. S. Rajput, 25th edition 2013, PragatiPrakashan, Meerut.
2. Mechanics – D. S. Mathur, 2009, S. Chand & Company Ltd., New Delhi.
3. Mathematical Physics – B. D. Gupta, 3rd edition, 2009, Vikas Publishing House Pvt. Ltd., New Delhi.
4. Mathematical Physics – P. P. Gupta, R. P. S. Yadav, G. S. Malik, 4th edition 1983-84, KedarNath Ram Nath, Meerut, Delhi.
5. University Physics. FW Sears, MW Zemansky and HD Young, 13/e, 1986, Addison - Wesley.
6. Mechanics Berkeley Physics course, V.1: Charles Kittel, et. Al. 2007, Tata McGraw Hill.
7. Physics – Resnick, Halliday& Walker 9/e, 2010, Wiley Eastern Ltd, New Delhi.
8. Engineering Mechanics, Basudeb Bhattacharya, 2ndedn., 2015, Oxford University Press.

9. University Physics, Ronald Lane Reese, 2003, Thomson Brooks/Cole.
10. Physics – S.G. Starling and Woodal Longmams and Green Co. Ltd.
11. Elements of properties of matter – D.S. Mathur, 2016, ShyamLal Charitable Trust, New Delhi.
12. A text Book of properties of matter–N.S. Khare and S. Kumar, Atmaram and Sons New Delhi.
13. Concepts of Physics Vol. I - H.C. Verma, 2014, BharatiBhavan Publishers.

Theory: 30 Hours
Marks-50 (Credits: 02)

Unit-I

1. Gravitation

(9 Hours)

Newton's Law of Gravitation, Motion of a particle in a central force field (motion in a plane, angular momentum is conserved), Kepler's Laws (statement only), Satellite in circular orbit and applications, Geosynchronous orbits, Weightlessness, Basic idea of global positioning system (GPS).

2. Oscillations

(6 Hours)

Simple harmonic motion, Differential equation of SHM and its solutions, Kinetic and Potential Energy, Total energy and their time averages, Damped oscillations, Forced oscillations.

Unit-II

1. Elasticity

(9 Hours)

(Revision Hooke's law, Stress-strain diagram, Definition of elastic constants (Y , η , K and σ)), Bending of beam, Bending moment, Cantilever (without considering weight of cantilever), Beam supported at both the ends (without considering weight of beam), Torsional oscillation and torsional couple per unit twist, Work done in twisting a wire, Torsional pendulum-Determination of rigidity modulus and moment of inertia, Determination of elastic constants (Y , η , and σ) by Searle's method.

2. Surface Tension

(6 Hours)

Surface tension (definition), Molecular theory of surface tension, Angle of contact, Young equation and wettability, Relation between surface tension, excess of pressure and radius of curvature, Experimental determination of surface tension by Jaeger's method, Factors affecting surface tension, Applications of surface tension.

Reference Books:

1. University Physics. F W Sears, M W Zemansky and H D Young 13/e, 1986. Addison-Wesley
2. Mechanics Berkeley Physics course, v.1: Charles Kittel, et. Al. 2007, Tata McGraw - Hill.
3. Physics – Resnick, Halliday & Walker 9/e, 2010, Wiley eastern Ltd, New Delhi.
4. Engineering Mechanics, Basudeb Bhattacharya, 2nd edn., 2015, Oxford University Press
5. University Physics, Ronald Lane Reese, 2003, Thomson Brooks/Cole.
6. Physics – S.G. Starling and Woodall Longmans and Green Co. Ltd.
7. Elements of properties of matter – D.S. Mathur, Shamlal Charitable trust New Delhi.
8. A text Book of properties of matter – N.S. Khare and S. Kumar, Atmaram and sons, New Delhi.
9. Concepts of Physics – Vol.1 H.C. Verma - Bharati Bhavan Publishers.

Theory: 30 Hours
Marks-50 (Credits: 02)

Unit-I

Vector Calculus

(15 Hours)

Introduction, Del operator, gradient of scalar field and its physical significance, divergence of vector field and its physical significance, curl of vector field, line integral, surface integral, volume integral (definitions only), Gauss divergence theorem (statements and proof), Statements of Stoke's theorem, Greens symmetrical theorem.

Unit-II

Electrostatics

(15 Hours)

Electrostatic field, electric flux, Gauss's theorem of electrostatics, electric potential as line integral of electric field, potential due to a point charge, electric dipole, uniformly charged spherical shell and solid sphere, calculation of electric field from potential, capacitance of an isolated spherical conductor, parallel plate, spherical and cylindrical condenser, energy per unit volume in electrostatic field, dielectric medium, polarization vector, displacement vector, Gauss's theorem in dielectrics, Parallel plate capacitor completely filled with dielectric.

Reference Books:

1. Electricity and Magnetism, Edward M. Purcell, McGraw-Hill Education, Cambridge University Press, (1985).
2. Electricity and Magnetism, J.H. Fewkes & J. Yarwood., Oxford Univ. Press. Vol. - I, (1991).
3. Electricity and Magnetism, D C Tayal, Himalaya Publishing House, 2nd Edition (1988).
4. University Physics, Ronald Lane Reese, Thomson Brooks/Cole Publishing Company, (2003).
5. D.J. Griffiths, Introduction to Electrodynamics, Cambridge University Press, Pearson, (1999).
6. Electricity and Magnetism – N. S. Khare and S. S. Shrivastav, Atma Ram & Sons, Delhi. 9th edition (1976).
7. Foundations of Electromagnetic Theory, John R Reitz, Frederick J. Milford, Addison-Wesley Publishing Company 4th edition (2008)
8. University Physics– Hugh D. Young and Roger A. Freedman, Addison- Wesley Publishing Company, Inc., 9th edition, (1996)
9. Concepts of Physics, H. C. Verma, Bharti Bhawan publisher, Vol-2, (2016)
10. Mathematical Physics, B. D. Gupta, Vikas Publication House Pvt Ltd, 4th edition, (2009).
11. Electricity and Magnetism by R. Murugesan, S. Chand & Co., New Delhi, (2008).

Theory: 30 Hours
Marks-50 (Credits: 02)

UNIT I

- 1. A.C. Circuits** **(07 Hours)**
Complex numbers and their application in solving a. c. series LCR circuit using j operator and phasor diagram, Resonance in LCR series circuit, Sharpness of resonance (qualitative treatment only), Resonance in LCR Parallel circuit, complex Impedance, Reactance, Admittance, and Susceptance, Examples of series and parallel resonance, A.C. Bridge - Owen's Bridge Q-factor (definition only).
- 2. Network theorems** **(04 Hours)**
Review of network terminology (Circuit element, Active element, Passive element, Branch, Node or junction, Loop, Mesh, Voltage source, Current source, Ohms law, Resistances in series, Resistances in parallel), Thevenin theorem, Norton theorem, Equivalence between Thevenin theorem and Norton theorem, solved problems.
- 3. Ballistic Galvanometer:** **(04 Hours)**
Construction and working of B. G., expression for charge flowing through ballistic galvanometer, Correction for damping in galvanometer, Constants of ballistic galvanometer.

UNIT II

- 1. Magnetism** **(08 Hours)**
Introduction to magnetization and intensity of Magnetization, Biot-Savart's law & its applications- straight conductor, circular coil, solenoid carrying current, Divergence and curl of magnetic field, Magnetic vector potential, Ampere's circuital law.
- 2. Magnetic materials and their Properties** **(07 Hours)**
Magnetic intensity, magnetic induction, permeability, magnetic susceptibility. Hysteresis and hysteresis curve, diamagnetic, paramagnetic, ferromagnetic, ferrimagnetic and anti-ferromagnetic materials.

Reference Books

1. Electricity and Magnetism, Edward M. Purcell, 1986, McGraw-Hill Education.
2. Electricity and Magnetism, J.H. Fewkes & J. Yarwood. Vol.I, 1991, Oxford University Press.
3. Electricity and Magnetism, D C Tayal, 1988, Himalaya Publishing House.
4. University Physics, Ronald Lane Reese, 2003, Thomson Brooks/Cole.
5. Electricity and Magnetism, Khare and Shrivastav. Atma Ram & Sons, Delhi, 1976
6. University Physics 9th Edition, Young and Freedman.
7. Foundations of Electromagnetic Theory, Ritz and Milford. Pearson Publication
8. Electricity and Magnetism, Gupta, Kumar and Singal
9. Basic Electronics and Linear Circuits, N.N. Bhargava, D.C. Kulshrestha and S.S. Gupta, Tata McGraw-Hill
10. Electronic Fundamentals and Applications, J.D. Ryder, Prentice-Hall of India Pvt. Ltd
11. Network theory and Filter Design, V.K. Aatre, New Age International Publisher
12. Principles of Electronics, V.K. Mehata, S. Chand Publication, New Delhi

Marks 50 (Credits: 02)
DSC A- LAB: MECHANICS

1. Measurements of length (or diameter) using Vernier caliper, screw gauge and travelling microscope.
2. To determine the Moment of Inertia of a Flywheel.
3. To determine the Moment of inertia of a disc using auxiliary annular ring.
4. To determine modulus of rigidity of material of wire by torsional oscillations.
5. To determine Young's modulus of material of Bar by vibration.
6. To determine Y/η of Wire by Searle's method.
7. To determine 'g' by Bar Pendulum.
8. To determine Poisson ratio of rubber (rubber tube).
9. To study exponential decay of amplitude of simple pendulum.
10. To determine surface tension of water by Jaeger's method

DSC B- LAB ELECTRICITY AND MAGNETISM

1. To use digital multimeter for measurement of (a) Resistances, (b) AC and DC Voltages, (c) DC Current and (d) checking electrical fuses.
2. To level the prism table using spirit level and optical method and hence determine angle of prism using spectrometer.
3. To determine constants of B. G. (Figure of merit, Current sensitivity, Voltage sensitivity and charge sensitivity)
4. To compare capacitances using De'Sauty's bridge (B.G/Spot Galvanometer).
5. To determine low resistance by Carey Foster's Bridge.
6. To determine impedance of series LCR circuit.
7. To study the series LCR circuit and determine its resonant frequency and quality factor.
8. To study a parallel LCR circuit and determine its anti-resonant frequency and quality factor.
9. To determine frequency of A. C. mains by sonometer for magnetic or non-magnetic material of wire.
10. To verify Thevenin / Norton theorem.

Reference Books:

1. Advanced Practical Physics for students, B.L.Flint&H.T.Worsnop, 1971, Asia Publishing House.
2. A Text Book of Practical Physics, InduPrakash and Ramakrishna, 11th Edition, 2011, KitabMahal, New Delhi.
3. Advanced level Physics Practicals, Michael Nelson and Jon M. Ogborn, 4th Edition, reprinted 1985, Heinemann Educational Publishers
4. College Practical Physics – Khanna and Gulati (S. Chand and Co. Ltd, Delhi).
5. Practical Physics – Gupta and Kumar (PragatiPrakationMeerat)
6. Advanced Level Practical Physics – J.M. Nelcon, J.M. Ogloom (EIBS).
7. Engineering Practical Physics- S. Panigrahi& B.Mallick,2015, Cengage Learning India Pvt. Ltd.

TITLES FOR REVISED THEORY COURSES

Semester	Physics Part	Course Code	Course title old and New
I	I	DSC A1	MECHANICS-I
	II	DSC A2	MECHANICS-II
II	III	DSC B1	ELECTRICITY AND MAGNETISM – I
	IV	DSC B2	ELECTRICITY AND MAGNETISM – II

• **Scheme of Practical Examination for B. Sc. Part –I**

1. Practical examination will be conducted annually.
2. Practical examination will be conducted for one day per batch.
3. The examination will be conducted in two sessions per day and each session will be of three hours duration.
4. Every candidate should perform one experiment each from Lab A and Lab B .
5. At least eighty percent practical should be completed by the student.
6. The marks distribution for practical is as below.

Practical groups	Marks
Group I	20
Group II	20
I)Certified laboratory journal	10
Total Marks	50

Nature of Question Paper

Theory: Time -2 hours, Marks-50 Credits-2

Question 1: Select the correct alternative (Compulsory 10 questions) 10 marks

(Four alternatives for each question)

Question 2: (Attempt any Two out of three) 20 marks

(Long answer type)

Question 3: (Attempt any four out of six) 20 marks

(Short answer type)

Note: Equal weightage should be given to each unit.

Shivaji University, Kolhapur
B.Sc. Part-I Physics Syllabus (NEP-2020) with effect from August, 2022

COURSE OUTCOME

Semester-I		
Course Code	Part	Course Outcome
DSC A1	Mechanics-I	<ul style="list-style-type: none"> ▪ Students are able to <i>understand and identify</i> scalar and vector physical quantities in mechanics ▪ Students are able to <i>understand and apply</i> vector algebraic methods to elementary exercises in mechanics ▪ Students are able to <i>understand and identify</i> degree and order of given differential equations ▪ Students are <i>able to solve</i> second order, homogenous ordinary differential equations in mechanics ▪ Students are able to <i>understand the conceptual evolution</i> of conservation laws of momentum and energy for both single and system of particles ▪ Students are able to <i>understand and apply</i> basic concepts of rotational motion ▪ In general, students are capable of <i>correlating</i> above concepts and methods in mechanics to <i>both theoretical and experimental domains revealing analytical as well as numerical skills</i>
DSC A2	Mechanics-II	<ul style="list-style-type: none"> ▪ Students are able to <i>understand and apply</i> Newtons Law of Gravitation to celestial objects ▪ Students are able to <i>understand geometry of planetary orbits under the action of central force</i> ▪ Students are able to <i>solve</i> numerical problems based on Kepler's Laws of planetary motion ▪ Students are able to <i>understand simple concepts like weightlessness, Geosynchronous satellite and GPS</i> ▪ Students are <i>able to setup</i> differential equation for simple harmonic motion and its allied cases ▪ Students are <i>able to</i> calculate time averages of KE, PE and TE ▪ Students <i>are able to revise</i> basic concepts such as stress, strain and elastic constants of elasticity ▪ Students are <i>able to derive</i> elastic constants for beam supported at both ends and at one end ▪ Students are <i>able to derive</i> elastic constant (η) of a wire under torsional oscillations (Searle's Method) ▪ Students are <i>able to explain</i> the phenomenon of surface tension on the basis of molecular forces ▪ Students are <i>able to derive</i> the relation between surface tension and excess pressure ▪ Students are <i>able to perform</i> an experiment to

		<p>determine ST by Jaeger`s method</p> <ul style="list-style-type: none"> ▪ Students are <i>able to discuss and state</i> the factors affecting the ST ▪ In general, students are capable of <i>correlating</i> above concepts and methods to <i>both theoretical and experimental domains revealing analytical as well as numerical skills</i>
Semester-II		
Course Code	Part	Course Outcome
DSC B1	Electricity and Magnetism-I	<ul style="list-style-type: none"> ▪ Students are able to <i>understand the physical significance of</i> gradient, divergence and curl ▪ Students are able to <i>apply</i> concepts in vector calculus such as gradient, divergence and curl related to vector and scalar fields using Gauss, Stokes and green`s theorem ▪ Students are able to <i>understand and apply</i> concepts of electrostatic field, potential to point charges, electric dipole and geometrically regular charged bodies ▪ Students are able to <i>understand and apply</i> concept of capacitor to isolated conductor, parallel plates, cylindrical and spherical capacitors and allied modifications in it ▪ Students are able to <i>understand and apply</i> concept of energy density in electric field ▪ Students are capable of <i>applying</i> above concepts to <i>solve numerical exercise</i> in electrostatics
DSC B2	Electricity and Magnetism-II	<ul style="list-style-type: none"> ▪ Students are able <i>to understand</i> importance of complex numbers in analysis of AC Circuits contacting Inductance(L) Capacitor(C) and Resistance (R) and their various configurations ▪ Students are able to <i>define and apply</i> the concepts in AC circuits such as Impedance (Z), reactance (X_C and X_L), Admittance, Susceptance and Quality Factor (Q) ▪ Students are able to <i>understand and design</i> AC bridge: Owen`s Bridge ▪ Students <i>reveal</i> mastery in basic terminology in network analysis for further studies ▪ Students are able to <i>state and apply</i> Network theorems to simple circuits ▪ Students are able to <i>understand</i> basic working principle of Ballistic galvanometer ▪ Students are able to <i>define</i> constants of ballistic galvanometer ▪ In general, students are capable of <i>applying</i> above concepts in network analysis to <i>both theoretical and experimental domains</i> ▪ Students are able to understand simple elementary

		<p>concepts such as magnetization and intensity of magnetization</p> <ul style="list-style-type: none">▪ Students are able to state Biot-Savart's law and are capable to apply it to straight, circular wires and solenoid▪ Students are able to understand concept of magnetic vector potential along with Ampere's circuital law▪ Students are able to understand the explain the phenomenon of hysteresis in magnetism▪ Students are able to discriminate different magnetic materials based on their characteristic properties
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SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

**Revised Syllabus For
Bachelor of Science
Part-II**

PHYSICS

CBCS PATTERN

Syllabus to be implemented from

June, 2019 onwards.

SHIVAJI UNIVERSITY KOLHAPUR
B.Sc. Part-II Physics CBCS Syllabus with effect from June, 2019
Semester-III
PHYSICS Paper-V
DSC-C1 THERMAL PHYSICS AND STATISTICAL MECHANICS – I
Theory: 36 Hours
Marks-50 (Credits: 02)

Unit I: **(18 hrs)**

Kinetic Theory of Gases and thermometry

Mean free path, derivation of Maxwell's law of distribution of velocities and its experimental verification, Transport Phenomena: transport of momentum (viscosity), transport of thermal energy (conduction), Transport of mass (diffusion), Law of equipartition of energy (qualitative) and its applications to specific heat of monoatomic and diatomic gases. Principle of thermometry, types of thermometers, Scales of temperature (Celsius, Kelvin, Fahrenheit and Rankine) , Mercury thermometer, Thermoelectric thermometer ,Platinum resistance thermometer , Thermister

Unit II:

Laws of Thermodynamics **(18 hrs)**

Thermodynamic system, thermodynamic variables, equation of state, thermodynamic equilibrium, Zeroth Law of thermodynamics, Internal energy, First law of thermodynamics, conversion of heat into work, specific heats C_p & C_v , Applications of First Law (Isothermal process, Adiabatic process, Isochoric, Isobaric), relation between C_p & C_v , work done during isothermal and adiabatic processes, reversible & irreversible processes, Second law of thermodynamics, Carnot's ideal heat engine, Carnot's cycle (Working, efficiency), Carnot's theorem, Entropy (concept & significance), Entropy changes in reversible & irreversible processes, Third law of thermodynamics, Unattainability of absolute zero.

• **Reference books**

- 1) Heat and Thermodynamics- Brijlal and N.Subramanyam, S.Chand and Company Ltd.
- 2) Text book of heat- J.B. Rajam, S.Chand and company Ltd
- 3) A treatise on Heat- Meghnad Saha and B.N. Srivastava, Indian Press
- 4) Heat and Thermodynamics (8th Ed), M.W. Zemansky and R. Dittman, McGraw Hill
- 5) Heat Thermodynamics and Statistical physics- J.P. Agrawal and Satya Prakash, Pragati Prakashan
- 6) Fundamentals of heat - D.S.Mathur, S.Chand and Sons publisher

Semester III
PHYSICS Paper VI
DSC-C2: WAVES AND OPTICS - I
Theory: 36 Hours
Marks -50 (Credits: 02)

Unit I **(18 hrs)**

1) Superposition of Harmonic Oscillations (7 hrs)

Linearity and superposition principle, Superposition of two collinear harmonic oscillations- for oscillations having equal frequencies (Analytical and geometrical methods) and oscillations having different frequencies (Beats), Superposition of two perpendicular harmonic oscillations- for oscillations having equal frequencies (Graphical and analytical methods) and oscillations having different frequencies (Lissajous figures), Uses of Lissajous figures.

2) Coupled Oscillations: (4 hrs)

Frequencies of coupled oscillatory systems, normal modes and normal co-ordinates, energy of coupled oscillations, energy transfer in coupled oscillatory system.

3) Waves Motion and Ultrasonic waves (7hrs)

Waves Motion: Transverse waves on a string, travelling and standing waves on a string, Normal modes of a string, Group velocity and Phase velocity, Plane waves, Spherical waves.

Ultrasonic waves: Piezo-electric effect, Production of ultrasonic waves by Piezo-electric generator, Detection of ultrasonic waves, Properties ultrasonic waves, Applications of ultrasonic waves.

Unit II **(18 hrs)**

1) Sound and Acoustics of buildings: (7 hrs)

Sound: Transducers and their characteristics, Pressure microphone, Moving coil loudspeaker, Intensity and loudness of sound, Decibels, Intensity levels, musical notes, musical scale.

Acoustics of buildings: Reverberation and time of reverberation, Absorption coefficient, Sabine's formula for measurement of reverberation time, Acoustic aspects of halls and auditoria.

2) Viscosity(5hrs)

Rate flow of liquid in a capillary tube - Poiseuille's formula, experimental determination of coefficient of viscosity of a liquid by Poiseuille's apparatus method, variations of viscosity of a liquid with temperature lubrication.

3) Physics of low pressure(6hrs)

Production and measurement of low pressure, Rotary pump, Diffusion pump, Molecular pump, Knudsen absolute gauge, Pirani gauge, Detection of leakage.

• **Reference books**

- 1) The Physics of Waves and Oscillations- N. K. Bajaj, Tata McGraw-Hill Pvt. Ltd., New Delhi, Reprint 2010
- 2) Waves and Oscillations-Subrahmanyam Brijlal, Vikas Publishing House Pvt. Ltd., New Delhi, 2nd Revised Edition
- 3) Waves and Oscillations – Dr. D. N. Tripathy, Kedarnant Ramnant Meerut , Delhi.
- 4) Elements of properties of matter-D. S. Mathur, S. Chand & company Pvt. Ltd., New Delhi, Reprint 2016
- 5) Physics for degree students- C. L. Arora and Dr. P. S. Hemne, S Chand & Company Pvt. Ltd., Second revised Edition, reprint 2014, Ram Nagar, New Delhi
- 6) A textbook of sound – N Subrahmanyam Brijlal, Vikas Publishing House Pvt. Ltd., New Delhi
- 7) A Text book of sound- Khanna and Bedi, Atma Ram & sons, Delhi
- 8) Oscillations & Waves- Satya Prakash, Pragati Prakashan, Meerut, 3rd Edition
- 9) Classical Mechanics – Gupta Kumar Sharma, Pragati Prakashan, Meerut, Reprint Introduction to Classical Mechanics- Nikhil Ranjan Ray, Vikas Publishi
- 10) Introduction to Classical Mechanics by R. G. Takwale & P. S. Puranik, McGraw Hill Education (India) Pvt,Ltd
- 11) Physics for Engineering (Vol 1)- P. K. Palanisany, Scitech Publications (India) Pvt Ltd.
- 12) University Physics –Gurbachan S. Chaddha (chapter 3), Narosa Publishing House Pvt. Ltd. Delhi
- 13) University Physics – FW Sears, MW Zemansky and HD Young, Addison Wesley

B. Sc. Part – II Semester-IV

PHYSICS Paper-VII

DSC-D1 THERMAL PHYSICS AND STATISTICAL MECHANICS – II

Theory: 36 Hours

Marks-50 (Credits: 02)

Unit I

(18 hrs)

1) Thermodynamic Potentials (10 hrs)

Enthalpy, Gibbs, Helmholtz, Internal Energy functions, Maxwell's thermodynamical relations, Joule-Thomson effect, Clausius- Clapeyron equation, Expression for $(C_p - C_v)$, C_p/C_v , TdS equations.

2) Theory of Radiation (8 hrs)

Blackbody radiation and its importance, Experimental study of black body radiation spectrum, Concept of energy density, Derivation of Planck's law, Deduction of Wien's distribution law, Rayleigh-Jeans Law, Stefan Boltzmann Law and Wien's displacement law from Planck's law.

Unit II

(18 hrs)

1) Classical statistics (10 hrs)

Phase space, Microstate and Macrostate, Accessible microstates, priory probability thermodynamic probability, probability distribution, Maxwell-Boltzmann distribution

law, evaluation of constants α and β , Entropy and Thermodynamic probability, Distribution of molecular speeds.

2) Quantum statistics (8 hrs)

Bose-Einstein distribution law, photon gas, Fermi-Dirac distribution law, electron gas, comparison of M.B., B.E., and F.D. statistics.

• Reference books

- 1) Heat and Thermodynamics-M.W.Zemasky and R. Dittman, McGraw Hill.
- 2) Physics for degree students B.Sc. second year- Arora, Hemne, S. Chand.
- 3) Concepts of Modern Physics- Arthur Beiser, McGraw-Hill.
- 4) Thermal Physics, S. Garg, R. Bansal and C. Ghosh, 1993, Tata McGraw-Hill.
- 5) Thermodynamics, Kinetic theory & Statistical thermodynamics, F.W.Sears & G.L.Salinger. 1988, Narosa.
- 6) University Physics- Ronald Lane Reese, Thomson Brooks/Cole.
- 7) Heat Thermodynamics and Statistical Physics, N. Subramaniam, Brijlal, P. Hemne, 2008, S. Chand.

B. Sc.Part II Semester IV
PHYSICS Paper VIII
DSC- D2 - WAVES AND OPTICS-II
Theory: 36 Hours
Marks -50 (Credits: 02)

Unit III

(18 hrs)

1. Cardinal points (7 hrs)

Cardinal points of an optical system (definitions only), graphical construction of image using cardinal points, Newton's formula, relation between f and f' for any optical system, relation between lateral, axial and angular magnifications.

2. Resolving Power of optical instruments: (5 hrs)

Resolution, Resolving power of optical instruments, Rayleigh's criterion for the limit of resolution, Modified Rayleigh's criterion, comparison between magnification and resolution, resolving power of plane diffraction grating, resolving power of a prism.

3. Polarization of light: (6 hrs)

Idea of polarization, polarization by double refraction, Huygens explanation of double refraction through uniaxial crystals, Nicol prism (construction, working), production and detection of circularly and elliptically polarized light, optical rotation - laws of rotation of plane of polarization, polarimeter.

UNIT-IV

(18 hrs)

1. Interference: (10 hrs)

Principle of Superposition, Coherence and condition for interference, Division of amplitude and division of wave front, Division of wave front – Lloyd's single mirror (determination of wavelength of light of monochromatic source), Division of amplitude- Interference in thin parallel films (reflected light only), Wedge shaped films, Newton's rings and its application for determination of wavelength and refractive index of light.

2. Diffraction: (8 hrs)

Fraunhofer diffraction- Elementary theory of plane diffraction grating, Determination of wavelength of light using diffraction grating, Theory of Fresnel's half period zones, Zone plate (construction, working and its properties), Fresnel's diffraction at a straight edge.

• Reference Books

1. Text book of optics for B.Sc. Classes- Brij Lal and N. Subrahmanyam, S. Chand & Company Ltd. New Delhi, 2006
2. Wave Optics- R. K. Verma, Discovery Publishing House New Delhi, 2006
3. A text book of light- 8th Edition, D. N. Vasudeva, Atma Ram & Sons, Delhi (1976)
4. Fundamentals of Optics- 4th Edition, Francis A. Jenkins and Harvey E. White, Tata McGraw-Hill Education Private Ltd., New Delhi 2011
5. Optics- 2nd Edition, Ajay Ghatak, Tata McGraw-Hill Publishing Company Ltd., New Delhi,
6. *A text book of light- D. N. Vasudeva*
7. Principles of Physics- 10th Edition, Halliday and Resnick, Wiley
8. University Physics- 14th Edition, H.D. Young and R. A. Freedman, Pearson

➤ B.Sc. Part II PHYSICS LAB Experiments (DSC C1, C2, D1, D2 Paper V, VI, VII, VIII) Total Marks: 100 Credits: 04

• Group I (Thermal Physics and Statistical Mechanics I)

1. To determine the value of Stefan's Constant.
2. To determine the coefficient of thermal conductivity of copper by Searle's Apparatus.
3. To determine the Coefficient of Thermal Conductivity of Cu by Angstrom's Method.
4. To determine the coefficient of thermal conductivity of a bad conductor by Lee and Charlton's disc method.
5. To determine the temperature co-efficient of resistance by Platinum resistance thermometer.
6. To study the variation of thermo e.m.f. across two junctions of a thermocouple with temperature.
7. To record and analyze the cooling temperature of hot object as a function of time using a thermocouple.
8. To calibrate Resistance Temperature Device (RTD) using Null Method/Off-Balance Bridge

• Group II (Thermal Physics and Statistical Mechanics II)

1. To determine the temperature coefficient of resistance using post office box.
2. To verify Stefan's fourth power law.

3. To determine specific heat of graphite.
4. To determine the ratio of specific heat of air by Kundt's tube.
5. Temperature of flame
6. To determine the coefficient of thermal conductivity of glass in the form of tube.
7. To determine the thermal conductivity of metal bar by Forbes's method.
8. To determine Mechanical Equivalent of Heat, J, by Callender and Barne's constant flow method.

• **Group III(Waves and Optics I)**

1. To investigate the motion of coupled oscillators
2. To determine the frequency of an electrically maintained tuning fork by Melde's experiment and to verify $\lambda^2 - T$ Law
3. To study Lissajous figures by using CRO
4. To determine coefficient of viscosity of water by capillary flow method (Poiseuille's method)
5. To determine velocity of sound in air by Kundt's tube and audio oscillator or Phase shift method (CRO and microphone).
6. To determine viscosity of liquid by Searle's viscometer.
7. To determine velocity of sound in air by resonating bottle.
8. To determine frequency of a crystal oscillator.

• **Group IV(Waves and Optics II)**

1. To determine the Resolving Power of a Prism.
2. To determine the Resolving Power of a Plane Diffraction Grating.
3. To determine wavelength of sodium light using diffraction due to straight edge.
4. To determine wavelength of sodium light using Newton's Rings.
5. Determine thickness of thin film using interference in wedge shaped thin film.
6. Goniometer I- To study cardinal points of optical system
7. Goniometer II- To study the equivalent focal length of optical system.
8. To study angle of specific rotation of sugar using Polarimeter.

• **Reference Books for practical**

1. Advanced Practical Physics for students, B.L. Flint & H.T. Worsnop, 1971, Asia Publishing House.
2. Advanced level Physics Practical, Michael Nelson and Jon M. Ogborn, 4th Edition, reprinted 1985, Heinemann Educational Publishers
3. A Text Book of Practical Physics, Indu Prakash and Ramakrishna, 11th Edition, 2011, Kitab Mahal, New Delhi.
4. B.Sc. Practical Physics, C.L. Arora, S. Chand & Company Pvt. Ltd., New Delhi

➤ **Scheme of Theory Examination for B. Sc. part –II**

- 1) Two theory papers for each semester.
- 2) Each paper is of two hour duration and of 50 marks.

➤ **Scheme of Practical Examination for B. Sc. Part-II**

1. The marks distribution for practical marks is as below.

Group	Allotted Marks
Group I	20
Group II	20
Group III	20
Group IV	20
Journal work Certified Journal(10 Mark) Neatness(5 Mark) Punctuality(5 Mark)	20
Total Marks	100
Credits	04

2. Practical examination will be conducted annually.
3. Practical examination will be conducted for two days per batch of 16 students.
4. The examination will be conducted in two sessions per day and each session will be of three hours duration.
5. Every candidate should perform one experiment each from Groups I to IV (total 4 experiments).
6. At least eighty percent practical should be completed by the student.

➤ **Nature of the Question Paper**

Time: 2 Hours

Total Marks: 50

Instructions:

1. All questions are compulsory
2. Figures to the right indicates full marks
3. Draw neat labeled diagrams wherever necessary.
4. Use of scientific calculator/log table is allowed

Q.1 Select the correct alternative for the following (10)
(Ten questions with four alternatives carrying 1 mark each)

Q.2 Attempt ANY TWO of the following (20)

(A)

(B)

(C)

Q.3 Attempt ANY FOUR of the following (20)

(A)

(B)

(C)

(D)

(E)

(F)

Note: Equal wattage should be given to all the units

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.Sc Part- III

Physics

Syllabus to be implemented from

June, 2020 onwards.

SHIVAJI UNIVERSITY, KOLHAPUR

B.Sc. Part-III Physics CBCS Syllabus with effect from June 2020

B.Sc. Part-III Semester-V

PHYSICS Paper-IX

DSE-E1 Mathematical Physics

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

UNIT-I

1. Partial Differential Equation (8 hours)

Introduction to differentialequations, Method of separation of variables for solving second order partial differential equations, Form of two dimensional Laplace differential equation in Cartesian coordinates and its solution, Three dimensional partial differential equation in Cartesian coordinates and its solution, The differential equation of progressive wave and its solution.

2. Frobenious Method and Special Functions (10hours)

Singular points of second order differential equations, Application of singularity to Legendre and Bessel differential equation, Series solution method of solving second order linear differential equation(Frobenious method) and its application to Legendre differential equation.

UNIT-II

1. Some Special Integrals (6 hours)

Gamma function, Properties of Gamma function, Beta function, Properties of Beta function,Relation between Beta and Gamma functions, Error function (Probability Integral).

2. Complex Analysis (12 hours)

Revision of complex numbers and their graphical representation: Geometrical representation, Equal complex numbers, Addition, Subtraction, Multiplication and Division of complex number by geometry. Types of complex numbers, square roots of complex numbers, Logarithmic function of complex variables, Euler's formula, De'Moivre's theorem, Cauchy-Riemann conditions.

Reference Books

1. Advanced calculus, Robert C. Wrede, Murray Spiegel.
2. Differential Equations with Modeling Applications, Dennis G.Zill.
3. Partial Differential Equations, Gupta Malik and Mittal.
4. Differential Equations, Gupta Malik and Mittal.
5. Differential Equations, Ramachandra Rao, H. R. Anuradha.
6. Partial Differential Equations, N. P. Bali.
7. Differential Equations, N. Ch. S. N. Iyenger.
8. Mathematical Physics, B. S. Rajput.
9. Mathematical Methods for Physicists, Arfken, Weber, 2005, Elsevier.
10. Mathematical Methods for Scientists and Engineers, McQuarrie, 2003, Viva Books.
11. Mathematical Physics, H. K. Das, Rama Varma.
12. Essential Mathematical methods, K. F. Riley, M. P. Habson, 2011, Cambridge.
13. Mathematics for Physicists, Susan M. Lea, 2004, Thomson Books/Cole.

B.Sc. Part-III Semester-V
PHYSICS Paper-X
DSE-E2 Quantum Mechanics
Theory: 36 Hours (45 Lectures of 48 minutes)
Marks -50 (Credits: 02)

Unit-I

1. Matter Waves (08 hours)

Wave particle duality, De-Broglie hypothesis of matter waves, Derivation of wavelength of matter wave, Concept of wave packet, Relation between group velocity - phase velocity and group velocity-particle velocity, Davisson and Germer experiment, Uncertainty principle (statements only): position-momentum and energy- time, Application of uncertainty principle- non existence of free electrons in the nucleus.

2. Schrodinger's Wave Equation (10 hours)

Wave function and its physical interpretation, Condition of physically acceptable wave function, Normalized and orthogonal wave function, Schrödinger time dependent and time independent (steady state) wave equations in 1D and 3D, Probability current density(continuity equation), Eigen values and Eigen functions, Expectation values of dynamic variables.

Unit-II

1. Operators in Quantum Mechanics (08 hours)

Definition of an operator, Position operator (x), Linear momentum operator (p), Commutation relation in quantum mechanics, Commutation relation between x and p , Kinetic energy operator (T), Hamiltonian operator (H), Parity operator (π), Angular momentum operator (L) – components of angular momentum operator in Cartesian coordinate system, Ladder operators, Eigen values of L_z and L^2 (use equations for L^2 and L_z in spherical polar coordinates).

2. Applications of Schrodinger Equation (10 hours)

Particle in a rigid box (infinite potential well) in one dimension and three dimension, Step potential- reflection and transmission coefficients, Potential barrier- tunneling effect (qualitative treatment), One dimensional simple harmonic oscillator (operator method)- energy levels, zero point energy, Schrodinger equation for Hydrogen atom in spherical polar coordinates, Separation of radial and angular parts, Solution of radial part of Schrodinger's equation - Energy Eigen values.

Reference Books

1. Modern Physics, R. Murugesan, 1997, S. Chand and Company Ltd.
2. Atomic Physics, J B Rajam, S Chand and Co.
3. Perspectives of Modern Physics, Arthur Beiser, McGraw Hill International Editions.
4. Concepts of Modern Physics, Arthur Beiser, Ahobhit Mahajan, S. Rai Choudhury, Sixth Edition, Tata McGraw Hill Education Private Ltd.
5. Modern Physics, S. L. Kakani and Shubhra Kulkarni, 2006, Viva books Private Ltd.
6. Modern Physics, D. L. Sehgal, K. L. Chopra and N. K. Sehgal, Reprint 1995, Sultan Chand & sons.
7. Introduction to Modern Physics, F. K. Richtmyer, E. H. Kennard, John N. Cooper, Sixth Edition, Tata McGraw Hill Education Private Ltd
8. A Text book of Quantum Mechanics, P.M. Mathews & K. Venkatesan, 2nd Edn.,2010, Tata McGraw Hill,
9. Quantum Mechanics, Leonard I. Schiff, 3rdEdn. 2010, Tata McGraw Hill.
10. Quantum Mechanics Theory and Applications, A. K. Ghatak and S. Lokanathan, Third Edn.1995, Macmillan India Ltd.
11. Quantum Mechanics Theory and applications, AjoyGhatak, S. Lokanathan, 5th Ed,2017, Trinity.
12. Quantum Mechanics, Chatwal and Anand, Reprint 2010, Himalaya Publishing house.
13. Quantum Mechanics, Gupta, Kumar, Sharma, Thirtieth Edn., 2011, Jai Prakash Nath Publications.
14. Advanced Quantum Mechanics, SatyaPrakash, Reprint 2011, KedarNath Ram Nath Meerut.
15. Advanced Quantum Mechanics, B. S. Rajput, Ninth Edn., 2009, Pragati Prakashan.
16. Quantum Mechanics, B. N. Srivastava, Reprint 2011, Pragati Prakashan.
17. Quantum Mechanics, P. J. E. Peebles, 2003, Prentice Hall of India.
18. Quantum Mechanics, S. P. Singh,M. K. Bagade, Kamal Singh, S. Chand & company Ltd, New Delhi

B.Sc. Part-III Semester-V

PHYSICS Paper-XI

DSE-E3 Classical Mechanics and Classical Electrodynamics

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

UNIT-I

1.Lagrangian Formulation (10 hour)

Constraints, Degrees of freedom, Generalized coordinates, Principle of virtual work, D'Alembert's principle, Lagrange's equation from D'Alembert's principle, Applications of Lagrange's equation to a particle in space, Atwood's machine and a bead sliding on uniformly rotating wire under force free condition.

2.Techniques of Calculus of Variation (8 hour)

Hamilton's principle, Deduction of Hamilton's principle from D'Alembert's principle, Deduction of Lagrange's equation from Hamilton's principle, Applications-shortest distance between two points in a plane, Brachistochrone problem.

UNIT- II

1.Special Theory of Relativity (12 hours)

Inertial and non-inertial reference frames, Galilean transformation equations, Michelson-Morley experiment, postulates of special theory of relativity, Lorentz transformation equations, Relativistic addition of velocities, Length contraction, Time dilation, Variation of mass with velocity, Mass-energy relation.

2. Charged Particles Dynamics (6 hours)

Poisson's and Laplace's equations and their physical significance, Laplace's equation in one dimension and its solutions, Motion of charged particle - in uniform electric field E, magnetic field B, Crossed uniform electric field E and magnetic field B.

Reference Books

1. Classical Mechanics, Goldstein Herbert, NarosaPubli./ Pearson Edu. 2018
2. Classical Mechanics, Gupta, Kumar and Sharma, Pragati Praka.2012
3. Introduction to Classical Mechanics, Nikhil Ranjan Roy, S Chand Publ. 2016
4. Introduction to Classical Mechanics, Takwale R.G., Puranik P. S., Tata McGraw 1979
5. Classical Mechanics, Panat P.V., NarosaPubli. 2016
6. Atomic physics, J B Rajam S Chand
7. Concepts of Modern Physics, Arthur Beiser, McGraw Hill
8. Introduction to Special Relativity, Robert Resnick, Wiley India
9. Classical Electrodynamics, Puri S.P., Tata McGraw/Alpha Science 2011
10. Classical Electrodynamics, Jackson J. D., Wiley India , 2007
11. Electromagnetics, Laud B.B., New Age Interna. 2011

B.Sc. Part III-Semester-V

PHYSICS Paper-XII

DSE-E4 Digital and Analog Circuits and Instrumentation

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

Unit-I

1. Digital Electronics (08 hours)

Review of basic logic gates, Derived logic gates (NOR, NAND, XOR and XNOR gates), NAND and NOR gates as universal gates, De Morgan's theorems, R-S flip flop, J-K flip-flop, Half adder, Full adder, 4 bit parallel binary adder.

2. Transistors Amplifier and Sinusoidal Oscillators (10 hours)

Transistor Amplifier: Single stage transistor CE amplifier, D.C. and A.C. equivalent circuits, load line analysis-d.c. load line, a.c. load line and Q point.

Oscillator: Feedback in amplifiers and its types, theory of feedback oscillator, Barkhausen's criterion for sustained oscillations, Oscillatory circuit (tank circuit), essentials of transistor oscillator, sinusoidal oscillators-phase shift oscillator, Colpitts oscillator, Hartley oscillator, Crystal oscillator using transistors.

Unit-II

1. Cathode Ray Oscilloscope (8 hours)

Introduction to CRO, Block diagram of CRO, Principle, Construction and working of CRT, Applications of CRO: measurement of A.C. and D. C. voltages, periodic time, frequency and phase difference, Lissajous figures.

2. Operational Amplifier and Timer (10 hours)

Operational Amplifier: Differential amplifier and its type, Op-Amp, Block diagram of an Op- Amp. Op-Amp parameters, Characteristics of an ideal and practical Op-Amp (IC 741), Applications of Op-Amps: Inverting amplifier and Non-inverting amplifier, Adder, Subtractor, Differentiator, Integrator.

Timer IC: Block diagram of IC555, IC 555 Pin configuration, Applications of IC 555 as astable and monostable multivibrator.

ReferenceBooks

1. Integrated Electronics, J. Millman and C.C. Halkias, 1991, Tata Mc-Graw Hill.
2. Electronic devices and circuits, S. Salivahanan and N. Suresh Kumar, 2012, Tata Mc-Graw Hill.
3. Microelectronic Circuits, M.H. Rashid, 2ndEdn.,2011, Cengage Learning.
4. Modern Electronic Instrumentation & Measurement Tech., Helfrick&Cooper,1990, PHI Learning
5. Digital Principles & Applications, A.P. Malvino, D.P. Leach &Saha, 7thEd.,2011, Tata McGraw Hill
6. Microelectronic circuits, A.S. Sedra, K.C. Smith, A.N. Chandorkar, 2014, 6thEdn., Oxford University Press.
7. Fundamentals of Digital Circuits, A. Anand Kumar, 2ndEdition, 2009, PHI Learning Pvt. Ltd.
8. OP-AMP and Linear Digital Circuits, R.A. Gayakwad, 2000, PHI Learning Pvt. Ltd.
9. Basic Electronics: A text lab manual, P.B. Zbar, A.P. Malvino, M.A. Miller, 1994, Mc-Graw Hill.
10. Electronics: Fundamentals and Applications, J.D. Ryder, 2004, Prentice Hall.
11. Electronic Principle, Albert Malvino, 2008, Tata Mc-Graw Hill.
12. A text book of Electronics, SantanuChattopadhyay, New Central Book Agency, Kolkata
13. Basic Electronics, 2ndEdition , B. Basavaraj, H. N. Shivashankar, Vikas Publishing house pvt. Ltd. New Delhi.
14. Electronic principles, V. K. Mehta
15. Basic Electronics, Bhargava and Gupta

B.Sc. Part-III Semester-VI
PHYSICS Paper-XIII
DSE-F1 Nuclear and Particle Physics
Theory: 36 Hours (45 Lectures of 48 minutes)
Marks -50 (Credits: 02)

Unit-I

1. General Properties of Nuclei and Nuclear Model (10 hours)

Constituents of nucleus and their intrinsic properties, Quantitative facts about size, mass, chargedensity (matter energy), binding energy, average binding energy and its variation with mass number, Liquid drop model approach, Semi empirical mass formula, Magic numbers.

2. Particle Accelerators (8 hours)

Need of accelerators, Cyclotron- construction, working, theory and its limitations, Principle of phase stable orbit, Synchrocyclotron - construction and working, Synchrotrons- electron synchrotron and proton synchrotron, Betatron - principle, construction and working condition, expression of energy gain.

Unit-II

1. Nuclear Detectors (10 hours)

Ionization chamber, Geiger Muller counter- construction, working and theory, dead time and recovery time, quenching mechanism, Construction of photo-multiplier tube (PMT), Scintillation detector-principle, construction and working, Wilson cloud chamber, Semiconductor detector, Cerenkov radiations, Cerenkov detector.

2. Particle Physics (8 hours)

Particle interactions, Classification of elementary particles, Symmetries and conservation laws- energy, momentum, angular momentum and parity, Baryon number, Lepton number, Concept of quark model.

Reference Books

1. Introductory nuclear Physics, Kenneth S. Krane (Wiley India Pvt. Ltd., 2008).
2. Concepts of nuclear physics, Bernard L. Cohen. (Tata McGraw Hill, 1998).
3. Introduction to the physics of nuclei & particles, R.A. Dunlap. (Thomson Asia, 2004)
4. Introduction to Elementary Particles, D. Griffith, John Wiley & Sons
5. Quarks and Leptons, F. Halzen and A.D. Martin, Wiley India, New Delhi
6. Basic ideas and concepts in Nuclear Physics - An Introductory Approach by K. Heyde (IOP-Institute of Physics Publishing, 2004).
7. Radiation detection and measurement, G.F. Knoll (John Wiley & Sons, 2000).
8. Theoretical Nuclear Physics, J.M. Blatt & V.F. Weisskopf (Dover Pub.Inc., 1991)
9. Nuclear Physics by John Lilley, The Manchester Physics Series – Wiley
10. Nuclear Physics by S. B. Patel, New age international (p) lit. Publishers New Delhi.
11. Modern Physics by R. Murugesan, S. Chand & company Ltd, Ram Nagar New Delhi
12. Nuclear Physics by D. C. Tayal, Himalaya Publishing house
13. Concept of modern physics by Arthur Beiser, Tata McGraw- Hill publishing company ltd. New Delhi
14. Atomic and nuclear structure by D. K. JHA, Discovery publishing house New Delhi
15. Nuclear energy by D. K. JHA Discovery publishing house New Delhi
16. Nuclear physics by S. N. Ghoshal , S. Chand & company Ltd, Ram Nagar New Delhi

B.Sc. Part-III Semester-VI
PHYSICS Paper-XIV
DSE-F2 Solid State Physics
Theory: 36 Hours (45 lectures of 48 min)
Marks-50 (Credits: 02)

Unit-I

1. Crystal Structure (10 hours)

Solids: amorphous, polycrystalline and crystalline materials; lattice, basis, unit cell- primitive, non-primitive unit cell, symmetry operations, symmetry elements of cube, Bravais lattice in two and three dimensions, Miller indices, Miller indices and inter-planer spacing, Simple crystal structures: SC, BCC, FCC and HCP (Coordination number, atomic radius, atoms per unit cell and packing fraction)

2. X-Ray Diffraction (08 hours)

Reciprocal lattice and its properties, Brillouin zone, Diffraction of X-rays by crystals, Ewald construction, Bragg's law in reciprocal lattice, Experimental methods in X-ray diffraction (Laue method, rotating crystal method, powder photograph method), Analysis of cubic crystal by powder method.

Unit-II

1. Magnetic Properties of Matter (10 hours)

Classical Langevin theory of diamagnetic and paramagnetic materials, Quantum mechanical treatment of paramagnetism, Curie's law, Weiss theory of ferromagnetism and ferromagnetic domains, Explanation of B-H curve, Hysteresis and energy loss.

2. Elementary Band Theory of Solids (8 hours)

Concept of density of states, Bloch theorem (statement only), Kronig-Penny model, Origin of energy gap, Velocity of electrons according to band theory, Effective mass of an electron, Distinction between metals, semiconductors and insulators, Hall Effect - Hall voltage and Hall Coefficient.

Reference Books

1. Introduction to Solid State Physics, Charles Kittel, 8th Ed., 2004, Wiley India Pvt. Ltd.
2. Elements of Solid State Physics, J.P. Srivastava, 2nd Ed., 2006, Prentice-Hall of India
3. Introduction to Solid, Leonid V. Azarov, 2004, Tata Mc-Graw Hill
4. Solid State Physics, Neil W. Ashcroft and N. David Mermin, 1976, Cengage Learning
5. Solid State Physics, Rita John, 2014, Mc-Graw Hill
6. Solid State Physics, Adrianus J. Dekker, Macmillan Publishers India Ltd.
7. Solid State Physics, M.A. Wahab, 3rd Ed., 2018, Narosa Publishing House Pvt. Ltd.
8. Solid State Physics, S.O. Pillai, 5th Ed., New Age International(P) Ltd., Publishers.
9. Fundamentals of Solid State Physics, Saxena-Gupta-Saxena, (PragatiPrakashan Meerut)
10. Solid State Physics, R. L. Singhal
11. Solid State Physics, C.M. Kachhava (Tata McGraw Hill Publication)
12. Elements of X-ray diffraction, B.D. Cullity and S. Stock
13. Solid state electronic devices, B.G. Streetman & S.K. Banerjee, 5th Ed. [PHI Learning Delhi.

B.Sc. Part-III Semester-VI

PHYSICS Paper-XV

DSE-F3 Atomic and Molecular Physics and Astrophysics

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

UNIT-I

1. Atomic Spectra (09 hours)

Observed hydrogen fine structure, Spectral notations and optical spectral series for doublet structure, Spectrum of sodium and its doublet fine structure, Selection and intensity rules for fine structure doublets, Normal order of fine structure doublets, Electron spin-orbit interaction, Normal and anomalous Zeeman effect and their explanation from vector atom model, Lande's g factor.

2. Molecular Spectra (09 hours)

Molecular bond, Electron sharing, H_2^+ molecular ion, The hydrogen molecule, Rotational energy levels, Rotational spectra, Vibrational energy levels, Vibrational spectra, Vibration – rotation spectra, Electronic spectra of diatomic molecules.

UNIT-II

1 Raman Spectra (4 hours)

Raman Effect, Characteristic properties of Raman lines, Classical and quantum theory of Raman Effect, Difference between Raman spectra and infrared spectra.

2. Structure of Universe: (08 hours)

Big-Bang theory, Steady state theory, Oscillating theory, Hubble law, Cosmological tests, Milky Way galaxy, Origin of solar system - Condensation theory; arguments for and against the theory.

3. Stellar Evolution (06 hours)

The H–R Diagram, Evolution of main sequence stars - Red giants and White dwarfs, Evolution of more massive stars- Supernova, Neutron star, Black hole, Surface of the Sun, Sunspots, Sunspot cycle.

Reference books

1. Atomic and Nuclear Physics – H. Semat and T. E. Albright.
2. Introduction to Atomic Spectra – H. E. White.
3. Concepts of Modern Physics – Arthur Beiser.
4. Perspectives of Modern Physics – Arthur Beiser.
5. Spectroscopy (Atomic and Molecular) – Gurdeep Chatwal, Sham Anand.
6. Astronomy – Fundamentals and Frontiers – Robert Jastrow and M. H. Thompson
7. Astronomy – Frank Bash.
8. Foundation of Astronomy, Michael A. Seeds, 10th edition, Thomson Learning, Inc., USA, 2008.

B.Sc. Part-III Semester-VI
PHYSICS Paper-XVI
DSE-F4 Energy Studies and Materials Science
Theory: 36 Hours (45 lectures)
Marks 50 (Credits: 02)

UNIT-I

1. Energy and Wind Energy (8 hrs)

Energy, Forms of energy, Man and environment, Energy chains, Classification of energy resources, Energy demands, Age of renewable and alternatives, Wind energy, Wind energy chains, Wind energy quantum, Planning of wind farm, Wind power density, Efficiency factor of wind turbine (P-H graph), Power of wind turbine for a given incoming wind velocity, Types of a wind turbine generator unit, Horizontal axis propeller type wind turbine generator unit.

2. Solar Energy (8 hrs)

Solar energy, Solar energy spectrum (UV, Visible and IR), Utilization of solar energy-thermal route, photovoltaic route, Essential subsystems in solar energy plant, Solar constant, Clarity index, Solar insolation, Solar energy from satellite station through microwave to earth station, Solar photovoltaic systems, Merits and limitations of solar PV systems, Prospects of solar PV systems, Power of a solar cell and solar PV panel.

3. Biomass Energy (2 hrs)

Origin of biomass, Biomass energy resources (biomass from cultivated crops, biomass from waste organic matter), Biomass conversion process (biochemical conversion-anaerobic digestion and fermentation)

UNIT-II

1. Superconductivity (6 hrs)

Idea of superconductivity, Critical temperature, Critical magnetic field, Meissner effect, Type-I and Type-II superconductors, London equation and penetration depth, Isotope effect, Application (magnetic levitation)

2. Nanotechnology (12 hrs)

Introduction to nanoscience and nanotechnology, Length scales relevant to nanoscience, Nanostructures: 1D, 2D and 3D nanostructures, Size effects in nanosystems, Quantum

confinement, Synthesis of nanostructured materials(Top down and bottom up approach), Photolithography, Ball milling,Nucleation and growth, Applications of nanotechnology (Spintronics, Molecular electronics, Nanobiotechnology)

ReferenceBooks

1. Energy Technology – Non-conventional, Renewable and Conventional – S. Rao and Dr. Parulekar.
2. Non-conventional Energy sources - G. D. Rai (4thedition), Khanna Publishers, Delhi.
3. Solar Energy - S.P. Sukhatme (second edition), Tata Mc.Graw Hill Ltd, New Delhi.
4. Solar Energy Utilization - G. D. Rai (5th edition), Khanna Publishers, Delhi.
5. Non-conventional Energy Sources – G. D. Rai (Khanna Publishers).
6. Elements of Material Science and Engineering - I.H.Vanvlach (4th Edition)
7. Material Science and Engineering - V. Raghva
8. Material science and metallurgy for Engg.-Kodigire V. D. Everest publication house, Pune
9. Material Science and Engg. - 5th Edition- V. Raghavan PHI Learning Pvt. Ltd. Delhi
- 10.Nanotechnology: Principles and Practices,Sulbha K Kulkarni (2ndEdition), Capital Publishing Co. New Delhi.
- 11.Science at the Nanoscale: An Introductory Textbook, Chin Wee Shong, ChorngHaur Sow, Andrew T. S. Wee (Pan Stanford Publishing Pte. Ltd.)
12. Introduction to Nanoscience, S.M. Lindsay (Oxford University press)

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B.Sc.Part III Physics Laboratory Experiments

Total Marks: 200 Credits: 08

- **Group-I**

1. Resonance pendulum
2. S.T. of soap solution
3. Surface tension of mercury by Fergusson modified method
4. γ and η using Flat Spiral Spring
5. γ by Koenig's method
6. γ by Cornu's spiral
7. C program to arrange the given set of numbers in ascending/descending order
8. C program to find largest/smallest number from a given set of numbers
9. Scilab Expt. 1 (problem from Quantum Mechanics)
10. Scilab Expt. 2 (problem from Quantum Mechanics)

- **Group-II**

1. Cardinal points by turn table method
2. Cardinal points by Newton's method
3. Refractive index of glass by Brewster's law
4. Diffraction at a Single Slit
5. Diffraction at cylindrical obstacle
6. Lloyd's single mirror
7. Double refracting prism
8. Diameter of Lycopodium powder
9. Spherical aberration
10. Absorption spectrum of a liquid (KMnO_4 solution)

- **Group-III**

1. Self Inductance by Owen's Bridge
2. Measurement of B_H , B_V and θ using Earth Inductor /Hysteresis by magnetometer method
3. Mutual inductance using Ballistic galvanometer.
4. Resistance of B.G. by half deflection method
5. e/m of Electron By Thomson's Method/Calibration of wire by Carey Foster bridge
6. Calibration of wire by Griffith's method

7. Absolute capacity of condenser
8. I-V characteristics of Solar Cell
9. Band gap energy of semiconductor using p-n junction diode
10. Determination of Plank's constant by using LED

- **Group-IV**

1. To verify the truth tables of NAND, NOR, Ex-OR and Ex-NOR gates by using basic gates with IC-74 series.
2. To verify the De-Morgan's theorems by using IC-74 series.
3. To design a single stage CE amplifier of given gain using voltage divider bias.
4. To built and test Colpitts oscillator using BJT.
5. To built and test phase shift oscillator using BJT.
6. To determine A.C. and D.C. sensitivity of the C.R.O. and to measure unknown frequency.
7. To design and test an astable multivibrator using IC-555 Timer.
8. To design and test monostable multivibrator using IC-555 Timer.
9. To study Op-amp as an inverting amplifier.
10. To study Op-amp as Schmitt trigger.

Skill Testing Experiments

- **Group-V-A**

1. Study of divergence of LASER beam
2. Measurement of wavelength of LASER using plane diffraction grating
3. Schuster's method and optical leveling of spectrometer
4. Obtaining Biprism fringes without lateral shift
5. Measurement of distance between two coherent sources in Biprism experiment
6. Polar graph using photocell/photovoltaic cell
7. Study of quantum tunneling effect using tunnel diode
8. Testing of electronic components
9. C program – Edit, save and execute given C program
10. C program – Edit, save and execute given C program

- **Group – V-B**

1. Radius of Capillary bore using mercury thread
2. Determination of lattice constant using given XRD powder pattern
3. Estimation of errors
4. Measurement of phase shift of RC network using CRO
5. Study of Half and Full adder
6. Simplification of digital circuit using Boolean laws (paper-work).
7. Measurement of resistance of galvanometer (Kelvin's method)
8. Electrical wiring of bulb, switch and plug.
9. Tracing of given electronic circuit/ build the given circuit using breadboard
10. Assembling of given electronic circuit(soldering method)

- **Group VI: Assessment of Annual Work of a Student**

1. Certified Laboratory Journal.
2. Study Tour Report.
3. Seminar Report (2 Seminars) / Project work.

- **Reference Books for practical**

1. Advanced Practical Physics for students, B.L. Flint & H.T. Worsnop, 1971, Asia Publishing House.
2. Advanced level Physics Practical, Michael Nelson and Jon M. Ogborn, 4th Edition, reprinted 1985, Heinemann Educational Publishers
3. A Text Book of Practical Physics, Indu Prakash and Ramakrishna, 11th Edition, 2011, Kitab Mahal, New Delhi.
4. B.Sc. Practical Physics, C.L.Arora, S.Chand & Company Pvt.Ltd., New Delhi
5. B.Sc. Practical Physics, Harman Singh, Hemane, 2012 Edition.

- **Revised Scheme of Practical Examination for B. Sc. Part – III**

1. Practical examination will be conducted annually.
2. Practical examination will be conducted for three days per batch.
3. The examination will be conducted in two sessions per day and each session will be of three hours duration.

4. Every candidate should perform one experiment each from Groups I to IV and one experiment each from Group V-A and Group V-B (total 6 experiments).
5. Study tour anywhere in India is compulsory.
6. At least eighty percent practical should be completed by the student.
7. The marks distribution for practical is as below.

Practical groups	Marks
Group I	30
Group II	30
Group III	30
Group IV	30
Group VA-15, Group VB-15	30
Group VI	
I) Certified laboratory journal (certified Journal- 10 marks, neatness-5 marks, punctuality- 5 marks)	20
II) Study Tour Report	10
III) Seminar Report / Project Report	20
Total Marks	200

Nature of Question Paper

Theory: Time -2 hours, Marks-50

Question 1: Select the correct alternative (Compulsory 10 questions) 10 marks

(Four alternatives for each question)

Question 2: (Attempt any Two out of three) 20 marks

(Long answer type)

Question 3: (Attempt any four out of six) 20 marks

(Short answer type)

- **Note:** Equal weightage should be given to each unit.

SHIVAJI UNIVERSITY, KOLHAPUR.



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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part - I

Chemistry

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)

B. Sc. I Semester I**DSC-3A- Chemistry paper I (Inorganic Chemistry)
(Theory Credits: 02 : 30 Lectures)****Unit I: Atomic Structure and Periodicity of Elements (09)**

- 1.1 Bohr's theory of hydrogen atom and its limitations
- 1.2 Wave particle duality
- 1.3 Heisenberg uncertainty principle
- 1.4 Quantum numbers and their significance
- 1.5 Shapes of *s*, *p* and *d* atomic orbitals
- 1.6 Electrons filling rules in various orbitals: a) Aufbau's principle b) Hund's rule of maximum multiplicity c) Pauli's exclusion principle
- 1.7 Electronic configuration of elements. Stability of empty, half-filled and completely filled orbitals
- 1.8 Periodicity of the elements: General discussion of the following properties of the elements with reference to s block elements: a) electronic configuration b) atomic radii c) ionic radii d) ionization energy e) electron affinity f) electronegativity g) metallic characters h) reactivity i) oxidation state j) melting and boiling points k) chemical properties

Unit II: Chemical Bonding and Molecular structure (A) Ionic Bonding (07)

- 2:1 Definition and formation of ionic bond. General characteristics of ionic bonding
- 2:2 Energetic in Ionic bond formation
- 2:3 Born-Haber cycle for NaCl and its applications
- 2:4 Fajan's Rule, Applications of Fajan's rule for,
 - Polarizing power and polarizability
 - Ionic character in covalent compounds
 - Bond moment, dipole moment and percentage ionic character

Unit III: Chemical Bonding and Molecular structure (B) Valence bond theory (VBT). (07)

- 3.1 Concept of hybridization, different types of hybridization and geometry of following molecules,
 - Linear geometry- BeCl_2 (*sp* hybridization)

- Planer trigonal geometry- BF_3 (sp^2 hybridization)
- Tetrahedral geometry- SiCl_4 (sp^3 hybridization)
- Trigonal bipyramidal geometry- PCl_5 (sp^3d hybridization)
- Octahedral geometry- SF_6 (sp^3d^2 hybridization)
- Pentagonal bipyramidal geometry - IF_7 (sp^3d^3 hybridization)

Unit IV: Chemical Bonding and Molecular structure (C) Molecular orbital theory (MOT)

(07)

- 4.1 LCAO method, formation of bonding , anti bonding and nonbonding molecular orbitals.
- 4.2 Conditions for successful overlap, Types of overlaps - S-S ,S-px, Px-Px, Py-Py and Pz-Pz overlaps.
- 4.3 Bond order and its significance.
- 4.4 Energy level sequence for molecular orbital when $n=1\&2$.
- 4.5 MO diagrams for homonuclear diatomic molecule of 1st & 2nd period Elements (He_2 , Li_2 , B_2 , N_2 , O_2).
- 4.6 Molecular orbital diagrams for heteroatomic diatomic molecules. (CO , NO)

Reference Books:

- 1) Lee, J.D. *Concise Inorganic Chemistry* ELBS, 1991.
- 2) Cotton, F.A., Wilkinson, G. & Gaus, P.L. *Basic Inorganic Chemistry*, 3rd ed., Wiley.
- 3) Douglas, B.E., McDaniel, D.H. & Alexander, J.J. *Concepts and Models in Inorganic Chemistry*, John Wiley & Sons.
- 4) Huheey, J.E., Keiter, E.A., Keiter, R.L. & Medhi, O.K. *Inorganic Chemistry*:
- 5) Principles of Structure and Reactivity, Pearson Education India, 2006.
- 6) Puri, Sharma, Kalia. *Principles of Inorganic Chemistry*
- 7) Madan R. L. *Chemistry for Degree Students*(B. Sc. First year),S. Chand Publications

B. Sc. I Semester I**DSC-4A- Chemistry paper II (Organic Chemistry)
(Credits: 02 : 30 Lectures)****Unit I: Fundamentals of Organic Chemistry (08)**

Introduction, Curved arrow notations, Cleavage of Bonds: Homolysis and Heterolysis. Organic molecular species: Nucleophiles and electrophiles. Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation effect, Reactive Intermediates: Generation, Structure, Stability and Reactions of Carbocations, Carbanions and carbon free radicals.

Unit II: Stereochemistry (09)**Hrs**

Introduction, Types of Stereoisomerism, Optical Isomerism: Concept of Chirality, Elements of Symmetry, Optical Isomerism in tartaric acid, 2, 3 Dihydroxybutanoic acid, Enantiomerism, Diastereomerism and Meso compounds, Geometrical isomerism in C=C, C=N and alicyclic compounds. Nomenclature of stereoisomers: D and L, erythro and threo, R and S, E and Z.

Unit III: Aromaticity (07)

Introduction, Characteristics properties of organic compounds, Meaning of terms: Aromatic, Non aromatic, Antiaromatic, Pseudoaromatic, Structure of Benzene: Kekule structure, Resonance structure, M.O. picture, Modern theory of Aromaticity, Mechanism of Electrophilic substitution reactions: Nitration, Sulphonation, Halogenation and Friedel craft reaction.

Unit IV: Cycloalkanes, cycloalkenes and alkadienes (06)

Cycloalkanes: - Introduction. Method of formation - a) By addition of carbene to alkene b) Action of metallic sodium on dihaloalkane c) Diels - Alder reaction d) By reduction of aromatic compounds, Chemical properties- a) Photohalogenation b) Catalytic halogenations c) Catalytic hydrogenation d) Effect of heat e) Reaction with hydrogen halide

Cycloalkenes : Introduction, Method of formation from cyclic compounds, Chemical Properties - a) Hydrogenation b) Addition of Halogens and halogen acids, c) Allylic halogenations

Alkadienes : Introduction, Classification, Buta-1,3-diene - a) Structure b) Methods of formation - from cyclohexane, From Butane by dehydrogenation, From acetylene, From Butane-1,3 - diol, From ethanol and acetaldehyde (Industrial method), Chemical Properties - a) Reaction with hydrogen halide b) Reaction with halogens -With one molar equivalent of halogens (Cl_2 or Br_2) c) Diels- Alder reaction d) Reduction – hydrogenation e) Oxidation – Ozonolysis f) Polymerization

Reference Books:

- 1) Graham Solomon, T.W., Fryhle, C.B. & Snyder, S.A. *Organic Chemistry*, John Wiley & Sons (2014).
- 2) McMurry, J.E. *Fundamentals of Organic Chemistry*, 7th Ed. Cengage Learning India Edition, 2013.
- 3) Sykes, P. *A Guidebook to Mechanism in Organic Chemistry*, Orient Longman, New Delhi (1988).
- 4) Eliel, E.L. *Stereochemistry of Carbon Compounds*, Tata McGraw Hill education, 2000.
- 5) Finar, I.L. *Organic Chemistry* (Vol. I & II), E.L.B.S.
- 6) Morrison, R.T. & Boyd, R.N. *Organic Chemistry*, Pearson, 2010.
- 7) Bahl, A. & Bahl, B.S. *Advanced Organic Chemistry*, S. Chand, 2010.
- 8) D.Nasipuri :Stereochemistry of Organic compounds
- 9) R. L. Madan, Chemistry for Degree Students (B. Sc. First Year), S. Chand.Publication

CHEMISTRY-DSC 3B: Chemistry Paper-III (Physical Chemistry)**(Credits :02 , Lectures-30)****Unit -I Chemical Energetics (06)****A) Thermodynamics**

Introduction, Basic concepts of thermodynamics, First law of thermodynamics Spontaneous and non-spontaneous process with examples, Statements of second law of thermodynamics, Carnot's cycle and its efficiency. Entropy, Physical Significance of entropy, Statement of Third Law of thermodynamics and calculation of absolute entropies of substances

B) Thermochemistry (04)

Important principles and definitions of thermochemistry. Concept of standard state and standard enthalpies of formations, integral and differential enthalpies of solution and dilution. Calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data. Variation of enthalpy of a reaction with temperature – Kirchhoff's equation.

Unit II . Chemical Equilibrium: (06)

Chemical Equilibrium: Free energy change in a chemical reaction. Thermodynamic derivation of the law of chemical equilibrium. Distinction between ΔG and ΔG° , Le Chatelier's principle. Relationships between K_p , K_c and K_x for reactions involving ideal gases.

Unit- III. Kinetic Theory of Gases (07)

Postulates of Kinetic Theory of Gases and derivation of the kinetic gas equation. Ideal and Non ideal gases, Deviation of real gases from ideal behaviour, compressibility factor, causes of deviation. Van der Waals equation of state for real gases. Explanation of real gas behaviour by Van der Waal's equation, Boyle temperature (derivation not required). Critical Phenomena: PV-isotherms of real gases (Andrew's isotherms), Continuity of state, Critical constants and their calculation from vander Waals equation. Maxwell Boltzmann distribution laws of molecular velocities and molecular energies (graphic representation – derivation not required) and their importance. Temperature dependence

of these distributions. Most probable, average and root mean square velocities (no derivation).
Numerical Problems.

Unit- IV. Chemical Kinetics

(07)

Introduction, Rate of reaction, Definition and units of rate constant, Factors affecting rate of reaction. (Nature of reactant, Concentration, pressure, temperature and catalyst.) Order and Molecularity of reaction, Zero order reaction, First order reaction, Characteristics of first order reaction. examples, Pseudo-unimolecular reactions, examples. Second order reaction: Derivation of rate constant for equal and unequal concentration of the reactants. Characteristics of Second order reaction., Determination of order of reaction by i) integration method ii) graphical method iii) Half life method, Effect of temperature on rate of reaction, Arrhenius equation, Concept of energy of activation.

Theories of Reaction Rates: Collision theory and Activated Complex theory of bimolecular reactions. Comparison of the two theories (qualitative treatment only). Numerical problems.

Reference Books:

1. Principles of Physical Chemistry Puri, Sharma and Pathania, Vishal Publishing House, 44th Edition
2. Advanced Physical Chemistry Gurdeep Raj GOEL Publishing House, 36th Edition
3. Essentials of Physical Chemistry, Bahl, Tuli and Bahl
4. Text Book of Physical Chemistry, Soni and Dharmarha
5. Essentials of Nuclear Chemistry by H J Arnikar, New Age, 4th edition.
6. Mathematical preparation of Physical Chemistry : F. Daniel, Mc-Graw Hill Book Company Ltd.
7. Elements of Physical Chemistry : S. Glasstone and D. Lewis
(D. Van Nostrand Co. Inc)
8. Physical Chemistry : W. J. Moore (Orient Longman)
9. Principles of Physical Chemistry : Maron Prutton
10. University Chemistry : B. H. Mahan (Addison - Wesley Publ. Co.)
11. Chemistry for Degree students (B. Sc. First Year): R L Madan (S. Chand and Company)

B.Sc. I Semester II
DSC-4B-Chemistry Paper IV (Analytical Chemistry)
(Theory Credits:02, Lectures-30)

- 1. Introduction to analytical Chemistry (06)**
 - 1.1 Introduction
 - 1.2 Importance of analysis
 - 1.3 Analytical processes (Qualitative and Quantitative)
 - 1.4 Methods of analysis (Only classification)
 - 1.5 Sampling of solids, liquids and gases
 - 1.6 Errors, types of errors (determinate and indeterminate), methods of expressing accuracy (Absolute and relative error)
 - 1.7 Significant figures, mean, median, standard deviation (Numerical problems expected)

- 2. Chromatography (06)**
 - 2.1 Introduction, Basic Principle of Chromatography, Basic terms, Classification of Chromatography
 - 2.2 Paper Chromatography- Principle, Methodology-types of papers and treatment, sample loading, choice of solvent, development-ascending, descending, circular, location of spots, determination of R_f value, Applications, advantages and disadvantages
 - 2.3 Thin layer chromatography; Principle, Solvent system, stationary phases, preparation of TLC plate, Detecting reagents, methodology-sample loading, development, detection of spot, R_f value, Applications, advantages and disadvantages
 - 2.4 Comparison of paper chromatography and TLC

- 3. Theory of titrimetric Analysis (06)**
 - 3.1 Introduction
 - 3.2 Acid-base indicators
 - 3.3 Theory of indicators w.r.t. Ostwald's ionization theory and quinoid theory
 - 3.4 Neutralization curves and choice of indicators for
 - a. Strong acid-strong base
 - b. Strong acid-weak base
 - c. Strong base-weak acid
 - 3.5 Complexometric titrations
 - a. Introduction
 - b. Types EDTA titrations
 - c. Metallochromic indicators-Eriochrome black- T
 - d. Indicator Action of Eriochrome black- T

- 4. Water Analysis (06)**
- 4.1 Physical analysis of water – pH, Conductance, Colour, odour, Turbidity and taste
 - 4.2 Chemical Analysis – Total Dissolved solids , Hardness, Salinity, Alkalinity, Acidity, Sulphates, Nitrates, Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand
- 5. Analysis of Fertilizers (06)**
- 5.1 Introduction
 - 5.2 Types of fertilizers
 - 5.3 Necessity and requirements of good fertilizers
 - 5.4 Sampling and sample preparation
 - 5.5 Analysis of Nitrogen by Kjeldahl’s method
 - 5.6 Analysis of Phosphorus by phosphomolybdate method
 - 5.7 Analysis of Potassium by sodium tetraphenyl borate method

References:

1. Textbook of quantitative Inorganic analysis-A.I. Vogel
2. Instrumental methods of Chemical analysis-H. Kaur
3. Instrumental methods of Chemical analysis-B.K. Sharma
4. Instrumental methods of Chemical analysis-Chatwal Anand
5. Fundamental of analytical Chemistry-Skoog and West
6. Basic Concepts of analytical Chemistry-S.M. Khopkar
7. Analytical Chemistry-Alka Gupta (Pragati Prakashan)
8. Indian Pharmacopoeia
9. Chromatography-H. Kaur
10. Chemistry for Degree students(B.Sc. First Year): R. L. Madan (S. Chand and Company)

**B.Sc. I Semester I and II
Practical Course**

(Credits 02: Lectures-04per week)

A) Inorganic Chemistry (Any Six)

1. To prepare standard 0.1 N KMnO_4 solution and to determine the strength of given oxalic acid solution.
2. To determine quantity of Fe(II) ions from the given solutions by titrating it with 0.1 N $\text{K}_2\text{Cr}_2\text{O}_7$ solution by using internal indicator
3. To estimate amount of Cu(II) ions by iodometric titration by using $\text{Na}_2\text{S}_2\text{O}_3$ solution.
4. To standardize supplied EDTA solution by titrating with 0.01 M ZnSO_4 solution and to estimate amount of calcium from given solution by using Erio-T as an indicator.
5. Quality control-To determines percentage purity of the given sample of soda ash Na_2CO_3 by titrimetric method.
6. Estimation of amount of Acetic acid from the given vinegar sample by titrimetric method
7. Chromatography : Separation and identification of cations by Paper Chromatographic technique from the following mixtures :
 - a) $\text{Ni}^{2+} + \text{Cu}^{2+}$
 - b) $\text{Ni}^{2+} + \text{Co}^{2+}$

B) Organic Chemistry

1. **Estimations** (any two) :
 1. Estimation of aniline. (by bromination method)
 2. Estimation of acetamide.
 3. Estimation of Aspirin.
2. Organic Qualitative Analysis: Detection of physical constant, type, functional group, elements, and Confirmatory test.

Identification of Organic Compounds (at least eight) (four containing at least one extra element- N, S, Cl, Br, I)

 - a) Acids: Oxalic acid, Benzoic acid, cinnamic acid
 - b) Phenols: Beta-Naphthol, Resorcinol
 - c) Base: Aniline, p-Nitroaniline

d) Neutral: Acetone, Acetanilide, Chloroform, m-Dinitrobenzene, Thiourea, Bromobenzene

3. Purification of organic compounds by crystallization (from water and alcohol) and distillation.

References:

- 1) Vogel's Text Book of Quantitative Chemical Analysis. (Longmann) ELBS Edition.
- 2) Vogel's Text Book of Qualitative Chemical Analysis. (Longmann) ELBS Edition.
- 3) Hand book of Organic Qualitative Analysis : Clarke.
- 4) Comprehensive Practical Organic Chemistry – Qualitative Analysis by V. K. Ahluwalia, Sunita Dhingra. University Press. Distributor – Orient Longman Ltd.
- 5) Comprehensive Practical Organic Chemistry preparation and Quantitative Analysis : V. K. Ahluwalia, Renu Aggarwal. University Press. Distributor – Orient Longman Ltd.
- 6) A Laboratory Hand - Book of Organic Qualitative Analysis and Separation : V. S. Kulkarni. Dastane Ramchandra & Co. Pune

C) Physical Chemistry

Physical Chemistry (Any Six)

1. Determination of equivalent weight of Mg by Eudiometer.
2. Study of specific reaction rate of hydrolysis of methyl acetate in presence of HCl.
3. Determination of heat of ionization of weak acid by using polythene bottle.
4. Determination of heat capacity of calorimeter for different volumes.
5. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide.
6. Determination of integral enthalpy of solution of salts (KNO_3 , NH_4Cl).
7. Determination of enthalpy of hydration of copper sulphate.
8. Study of the solubility of benzoic acid in water and determination of ΔH .

References:

- 1) Practical book of Physical Chemistry: Nadkarni, Kothari & Lawande.

- 2) Experimental Physical Chemistry: A. Findlay.
- 3) Systematic Experimental Physical Chemistry: S. W. Rajbhoj, Chondhekar.
(Anjali Publication.)
- 4) Experiments in Physical Chemistry: R. C. Das and B. Behra. (Tata Mc Graw Hill)
- 5) Advanced Practical Physical Chemistry: J. B. Yadav (Goel Publishing House.)
- 6) Practical Physical Chemistry: B. D. Khosala. (R. Chand & Sons)
- 7) Experiments in Chemistry: D. V. Jahagirdar.
- 8) A Text Book of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis: A.I. Vogel (Third Ed.) (ELBS)

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

**Revised Syllabus For
Bachelor of Science**

**Part-II
Chemistry
CBCS PATTERN**

Syllabus to be implemented from

June, 2019 onwards.

B.Sc.Part II (CBCS) Sem III

Paper No. DSC- C3 - Chemistry paper No. V (Physical Chemistry)

(Theory Credits: 02 : 30 hours, 38 lectures)

Name of the Topics	Expected Learning Outcome
1 Electrolytic Conductivity	Learning and understanding conductivity and transport number of the aqueous solutions with different applications.
2 Physical Properties of Liquids	Knowledge about surface tension, viscosity and refractive index will be gained by the student
3 Surface Chemistry	Learning and understanding surface phenomena at heterogeneous surfaces
4 Nuclear Chemistry	Learning the various Nuclear phenomena and measurement of nuclear radiations
5 Chemical Kinetics	Learning and understanding the knowledge about third order reaction and theories of reaction rates

Unit- I Electrolytic Conductivity

(16L)

Introduction, Types of conductors, Conductivity, Equivalent and Molar conductivity and their variation with dilution for weak and strong electrolytes in aqueous solution. Equivalent conductivity at infinite dilution, Measurement of conductance by using Wheatstone bridge. Kohlrausch law of independent migration of ions and its applications such as Ionic mobility, determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of salt. Conductometric titrations (only acid base titrations). Advantages of conductometric titrations.

Transference number, Hittorf's rule, determination of transport number using Moving boundary method, factors affecting transport numbers. Numerical problems.

Unit- II Physical Properties of Liquids

(6L)

Introduction, Classification of physical properties, Surface tension and its determination using Stalagmometric and differential capillary rise methods, Viscosity and its determination using Ostwald's viscometer, Refractive index (Snell's law), Specific and Molecular refractivities and its determination using Abbe's refractometer.

Unit – III Surface Chemistry

(7L)

Introduction, Adsorption as a surface phenomenon, Definition of adsorption, adsorbent, adsorbate, adsorbent. factors affecting adsorption, Types of adsorption, Distinction between physical and chemical adsorption, Adsorption isotherms: Freundlich adsorption isotherm, Langmuir adsorption isotherm. Types of physical adsorption isotherms, applications of adsorption.

Unit – IV Nuclear Chemistry

(5L)

Introduction, Types of Nuclear radiation, properties of α , β and γ radiations, Detection and measurement of nuclear radiations by Scintillation and Geiger muller counter methods, radioactive equilibrium and range of α - particles, Geiger Nuttal relations, determination of radioactive constant (decay constant).

Introduction, Third order reactions: derivation of rate constant, characteristics and examples of third order reaction. Theories of reaction rates as Collision theory and Transition state theory (only quantitative aspect, derivation not expected),

Reference Books:

- 1) Barrow, G.M. Physical Chemistry Tata McGraw-Hill (2007).
- 2) Castellan G.W. Physical Chemistry 4th Ed. Narosa (2004).
- 3) Kotz, J.C. Treichel, P.M.& Townsend, J.R. General Chemistry, Cengage Learning India Pvt Ltd: New Delhi (2009).
- 4) Mahan, B.H. University Chemistry, 3rd Ed. Narosa (1998).
- 5) Petrucci, R.H. General Chemistry, 5th Ed., Macmillan Publishing Co.,: New York (1985).
- 6) Elements of Physical Chemistry S., Glasstone, D. Lewis.(2010)
- 7) Principles of physical Chemistry Marron and Prutton. (2007).
- 8) Elements of Physical Chemistry P.W. Atkins (2017)
- 9) Essentials of Physical Chemistry Bahl and Tuli. S. Chand, 2010.
- 10) Physical Chemistry Daniels and Alberty (2016)
- 11) University General Chemistry C.N.R. Rao (2016)
- 12) Principals of Physical Chemistry Puri, Sharma and Pathania 47th Edition, Vishal Publishing Co. Daryaganj Delhi. 110002 (2017)
- 13) Physical Chemistry A.J. Mee.(2015)
- 14) Advanced Physical Chemistry Gurudeep Raj (2017)
- 15) Physical Chemistry R.A. Alberty.(2017-18)
- 16) Petrucci, R.H. *General Chemistry* 5th Ed. Macmillan Publishing Co.: New York (1985).

B.Sc.Part II (CBCS) Sem III

Paper No. DSC-C4- Chemistry paper No. VI (Industrial Chemistry)

(Theory Credits: 02 : 30 hours, 38 lectures)

Expected learning Outcomes :

Name of the topic	Expected Learning Outcome
1.Basic concepts in Industrial Chemistry	a.Learning and Understanding basic concepts and concentration terms b.Distinguish between classical and industrial chemistry c. Distinguish between unit operations and unit processes
2. Unit Operations	Knowledge of some unit operations
3.Corrosion and Electroplating	Understanding the process of corrosion and Knowledge of prevention from corrosion
4.Paper Industry	Knowledge of Indian paper industry
5.Soap and Detergents	Knowledge about the chemical nature and cleansing action of soap

Unit I Basic Concepts in Industrial Chemistry(10)

The difference between classical chemistry and industrial chemistry, Raw material for the Chemical Industry,Material Safety data sheets,Units that make up a chemical process-unit operation and unit processes, Flow Diagrams,Block Diagram, Process flow diagram / flow sheets, Material Balances-The purpose of mass balance calculations,Material Balance Equations,Mass balance calculation procedure and simple example

Definition and Explanation of terms -Normality, Equivalent weight, Molality, Molecular weight,Molarity, Molarity of mixed solution, Acidity of base, Basicity of acid,ppt, ppm, ppb solutions, Mole Fraction, Weight fraction, Percentagecomposition by W/W, W/V, V/V, Problems based on Normality, Molarity, mole fraction, mixed solution, etc.

Unit II Unit Operations(06)

Size reduction- Principle,Jaw crusher,ball mill

Size Enlargement –Principle,Pellet mill,tumbling agglomerators

Separation – Magnetic separation,Froth flotation,Distillation-Distillation of liquid mixtures, Types of distillation, Types of columns and packings, Condensers, Vacuum distillation, Spinning-banddistillation, Steam distillation.

Unit III. Corrosion and Electroplating (09)

Introduction of corrosion, Electrochemical theory of corrosion,Factors affecting on corrosion -i. Position of metals in the electrochemical series on the basis of standard reduction potential ii. Purity of metal iii. Effect of moisture iv. Effect of oxygen (differential aeration principle) v. Hydrogen overvoltage, Methods of protections of metals from corrosion, Electroplating: Electrolysis, Faraday's laws, Cathode current Efficiency, Basic principles of electroplating, Cleaning of articles, Electroplating of chromium, Anodising

Unit IV Paper Industry (06)

Manufacturing of Pulp,Types of pulp-Sulphate and soda ,Manufacturing of paper, calendaring ,ecological problems of Indian Paper industry, Features of good paper industry

Unit V Soaps and Detergents (07)

Introduction, Soaps - Raw materials, Types of soaps, Cleansing action of soap, Manufacture of soap - Boiled or Hot Process, Detergents - Raw Materials, Types of Detergents: Anionic, cationic and amphoteric, Preparation of Teepol and Deriphath, Comparisons between soaps and detergents.

Reference Books:

- 1) Principles of Physical Chemistry by Puri, Sharma and Pathania, Vishal Publishing company Jalindhar
- 2) Essential of Physical Chemistry by Bahl B.S., Tuli G.D. and Bahl Arun, S.Chand and Company Ltd. New Delhi
- 3) Modern Analytical Chemistry By David Harvey, McGRAW-Hill International Edition, 2000
- 4) Industrial chemistry by B.K.Sharma, Goel Publishing Housing, 16th edition 2011
- 5) Advanced Inorganic Chemistry, Vol.No.1, by Gurudeep Raj, Krishna Prakashan Media Ltd, Goel Publication, Meerut
- 6) Analytical chemistry by B.K.Sharma, Krishna Prakashan Media Ltd, Meerut, edition 3rd 2011
- 7) Principles of electroplating and electroforming by Blum and Hogaboom
- 8) Chemical Process Industries by Shreve and Brink
- 9) Industrial Chemistry by Loutfy Madkor and Helen Njenga
- 10) Elementary Principles of Chemical Processes by Richard Felder and Ronald Rousseau, John Wiley and Sons

B.Sc.Part II (CBCS) Sem IV

Paper No. DSC-D3- Chemistry paper No. VII (Industrial Chemistry)

(Theory Credits: 02 : 30 hours, 38 lectures)

Expected learning Outcomes :

Name of the topic	Expected Learning Outcome
1.Co-ordination Chemistry	.Learning and Understanding basic concepts about coordination complexes
2. Chelation	Knowledge about application of chelates in analytical chemistry.
3. P- Block elements	Understanding the properties of P – block elements
4. Chemistry of elements of 3d series elements	Student will be capable of understanding the properties of 3d series elements
5 Inorganic semi-micro qualitative analysis	Student will learn the basic knowledge about the qualitative analysis of inorganic compounds

Unit 1: Co-ordination chemistry

(10)

- 1.1 Introduction-Definition and formation of co-ordinate covalent bond in $\text{BF}_3 - \text{NH}_3$, $[\text{NH}_4]^+$ and H_2O
- 1.2 Distinguish between double salt and complex salt
- 1.3 Werner's theory-
 - 1.3.1. Postulates
 - 1.3.2. The theory as applied to cobalt amines viz. $\text{CoCl}_3.6\text{NH}_3$, $\text{CoCl}_3.5\text{NH}_3$, $\text{CoCl}_3.4\text{NH}_3$, $\text{CoCl}_3.3\text{NH}_3$
- 1.4 Description of the terms- ligand, co-ordination number, co-ordination sphere, Effective atomic number
- 1.5 IUPAC nomenclature of coordination compounds.
- 1.6 Isomerism in complexes with C.N. 4 and 6
 - 1.6.1 Geometrical Isomerism
 - 1.6.2 Optical Isomerism
 - 1.6.3 Structural Isomerism-Ionisation Isomerism, Hydrate Isomerism, Coordination Isomerism, Linkage Isomerism and Co-ordination position Isomerism
- 1.7 Valance bond theory of transition metal complex with respect to, C.N. 4, complexes of Cu and Ni
C.N. 6 complexes of Fe and Co

Unit 2: Chelation

(05)

- 2.1 A brief introduction with respect to ligands, chelating agent, chelation and metal chelates.
- 2.2 Structural requirements of chelate formation
- 2.3 Difference between metal chelate and metal complex
- 2.4 Classification of chelating agents (with specific illustration of bidentate chelating agents)
- 2.5 Application of chelation with respect to chelating agents - EDTA and DMG

Unit-3. P- Block elements (Group 13, 14 and 15)

(09)

- 3.1. Position of elements in periodic table
- 3.2. Characteristics of p-block elements with special reference to Electronic configuration and Periodic properties
- 3.3. Compounds of group 13,14 and 15
 - 3.3.1 Boron-Diborane method of preparation and nature of bonding (structure)
 - 3.3.2 Borazine method of preparation and nature of bonding (structure)
 - 3.3.3 Allotropes of carbon and phosphorus
 - 3.3.4 Oxyacids of nitrogen – HNO_2 , HNO_3 .
 - 3.3.5 Hydrides of Nitrogen- NH_3 and N_2H_4

Unit 4: Chemistry of elements of 3d series elements

(06)

- 4.1 Position of elements in periodic table
- 4.2 Characteristics of d-block elements with special reference to
 - i) Electronic structure
 - ii) Oxidation states, stability of oxidation states of Fe with respect to Latimer diagram
 - iii) Magnetic character
 - iv) Colored ions
 - v) Complex formation.

Unit-5. Inorganic semi-micro qualitative analysis

(08)

- 5.1 Theoretical principles involved in qualitative analysis.
- 5.2 Applications of solubility product and common ion effect in separation of cations into groups.
- 5.3 Application of complex formation in
 - a) Separation of II group into IIA and IIB sub-groups.
 - b) Separation of Copper from Cadmium.
 - c) Separation of Cobalt from Nickel.
 - d) Separation of Cl^- , Br^- , I^- .
 - e) Detection of NO_2^- , NO_3^- (Brown ring test).
- 5.4 Application of oxidation and reduction in
 - a) Separation of Cl^- , Br^- , I^- in mixture
 - b) Separation of NO_2^- and NO_3^- in mixture.
- 5.5 Spot test analysis.

Reference Books :

1. Inorganic chemistry, Principles of structure and reactivity by J.E. Huheey and etal
2. Inorganic Chemistry by Shriver and Atkins 5th edition
3. Vogels text book of Qualitative Inorganic analysis by A. I. Vogel .3rd and 6th edition
4. Advanced Inorganic Chemistry by Agrawal Keemtilal (Pragati Prakashan)
- 5 Theoretical Inorganic chemistry by C.Day & J.Selbin IInd edition
6. Principles of inorganic chemistry by Puri Sharma & Kalia
7. Modern Inorganic chemistry by R.D.Madan (S.Chand)
8. Inorganic Chemistry by J.D.Lee
9. Basic Inorganic Chemistry by F.A.Cotton,G.Wilkilson & B.L.Gaus wiley
10. Chemistry for Degree students by R.L.Madan (S.Chand Publication)

B.Sc.Part II (CBCS) Sem IV

Paper No. DSC- D4 - Chemistry paper No. VIII (Organic Chemistry)

(Theory Credits: 02 : 30 hours, 38 lectures)

Expected learning Outcomes :

Name of the topic	Expected Learning Outcome
Carboxylic acids and their derivatives.	To impart knowledge about the synthesis, reactivity and applications of carboxylic acids.
Amines and Diazonium Salts	Knowledge about classification, preparation and applications of amines and diazonium salts.
Carbohydrates	Understanding the classification, configuration and structure of carbohydrates.
Carbonyl Compounds- Aldehydes and Ketone	Student will be capable of understanding the nomenclature and reactivity of aldehydes and ketones.
Stereochemistry	Student will learn the basic knowledge conformational analysis of organic compounds

Unit 1: Carboxylic acids and their derivatives.

[8L]

1.1 Monocarboxylic acid: Introduction, Methods of Formation from Alcohols, Aldehydes, Ketones, Nitriles and Alkyl benzenes.

Chemical Reaction: Hell-Vohlard-Zelinsky (HVZ) reaction.

1.2 Formation of Halo Acids, Mono, Di, Tri- chloro acetic acid.

Substitution reaction of Monochloro acetic acid by Nucleophile OH^- , I^- , CN^- and NH_3

1.3 Hydroxy acids: Malic and Citric acid

Methods of formation of Malic acid from maleic acid, from Alpha bromo succinic acid and moist Ag_2O .

Chemical Reactions: Reactions of Malic acid- Action of heat, oxidation by KMnO_4 and reduction reaction with HI .

Uses of Malic acid

Method of formation of Citric acid from glycerol.

Chemical Reactions: Reaction of citric acid: acetylation by acetic anhydride, reduction by HI , action of heat.

Uses of citric acid.

1.4 Unsaturated acid: Cinnamic acid: method of formation from benzaldehyde using diethyl malonate and by using acetic anhydride and sodium acetate.

Chemical Reactions- Bromination, Oxidation. Uses of cinnamic acid

Acrylic acid: Method of formation from acrolein and by dehydration of beta hydroxy propionic acid.

Chemical Reactions: Addition of water, Reduction by $\text{Na}/\text{C}_2\text{H}_5\text{OH}$. Uses of acrylic acid.

1.5 Dicarboxylic acid: Succinic and phthalic acid

Method of formation of succinic acid from ethylene dibromide, maleic acid

Chemical Reactions: Action of heat, Action of NaHCO_3 , $\text{C}_2\text{H}_5\text{OH}$ in presence of acid.

Uses of succinic acid.

Phthalic acid: Method of formation from o-xylene and Naphthalene

Chemical Reactions: Action of heat, reaction with sodalime, ammonia, uses of phthalic acid.

1.6 Carboxylic acid derivatives: Introduction

Acid halide derivative: Acetyl chloride: formation from acid, by action with PCl_3 and SOCl_2 , reaction with water, alcohol (Mechanism of esterification is expected) and ammonia.

Uses of acetyl chloride.

Acid anhydride derivative: Method of formation of acetic anhydride by dehydration of acetic acid, reactions with water, alcohol and ammonia, uses of acetic anhydride.

Unit 2: Amines and Diazonium Salts:

[8L]

2.1 Introduction, Classification, Nomenclature, structure.

2.2 Methods of preparation: a) From Alkyl halide by Amolysis, b) By Reduction of Nitriles or Cyanides, c) From Unsubstituted amides (Hoffmann degradation), d) By Gabriel Synthesis (From Phthalamide).

2.3 Reactions: Carbylamine reaction, Schotten-Baumann reaction, Electrophilic substitution (Aniline), Nitration, Bromination, Sulphonation.

2.4 Diazonium salt: Introduction, Preparation of Benzene diazonium chloride.

2.5 Reactions: Replacement by Halogen (Sandmeyer), Replacement by Iodine, Replacement by $-\text{OH}$, C and N Coupling reactions: Synthesis of Methyl orange and Congo red. Reduction of BDC.

Unit 3: Carbohydrates

[8L]

Classification of carbohydrates, reducing and non-reducing sugars, General properties of glucose and fructose, their open chain structure. Epimers, mutarotation and anomers.

Determination of configuration of Glucose (Fischer proof). Ring structure of glucose Determination of size of the ring of Glucose by methylation method.. Haworth projections. Cyclic structure of fructose. Linkage between monosachharides, structure of disacharrides (sucrose, maltose, lactose) and polysacharrides (starch and cellulose) excluding their structure elucidation.

Unit 4: Carbonyl Compounds- Aldehydes and Ketone

[6L]

4.1 Introduction, Nomenclature, structure.

4.2 Reactivity of Carbonyl group, mechanism of Nucleophilic addition to Carbonyl group

4.3 Reactions: mechanism and application of Aldol condensation, Perkin reaction, Cannizaros reaction, Knoevenagel condensation, *Reformatsky* reaction.

Unit 5: Stereochemistry

[8L]

5.1 Conformational isomerism – Introduction.

5.2 Representation of conformations of ethane by using Saw- Horse, Fischer (dotted line wedge) and Newmann's projection formulae.

5.3 Conformations and conformational analysis of ethane and n-butane by Newmann's Projection formula with the help of energy profile diagrams.

5.4 Cycloalkanes relative stability - Baeyer's strain theory, Theory of strainless rings.

5.5 Conformations and stability of cyclohexane and monosubstituted cyclohexanes Cyclohexanol, bromocyclohexane and methyl cyclohexane.

5.6 Locking of conformation in t-butyl cyclohexane.

Reference Books:

1. Morrison, R. T. & Boyd, R. N. *Organic Chemistry*, Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).

2. Stereochemistry conformation & Mechanism, 9th Edition, By P.S.Kalasi, Publisher: New Age International, 2017

3. Stereochemistry of carbon compounds by Eliel..

4. Stereochemistry of Organic Compounds by D. Nasipuri.

5. Finar, I. L. *Organic Chemistry (Volume 1)*, Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).

6. Finar, I. L. *Organic Chemistry (Volume 2)*, Dorling Kindersley (India) Pvt. Ltd.

7. Organic Chemistry. Volume I, II, III by S.M. Mukharjee, S.P. Singh and R.P. Kapoor. Wiley Eastern Limited (New Age International)

8. Advanced Organic Chemistry by, B.S. Bahl, ArunBahl. S.Chand & Company, Ltd.

9. Chemistry by R.L.Madan, S.Chand and Company Ltd.

B. Sc II Practical Course
Total Marks 100
(Credits: 04)

Inorganic Chemistry (Marks 35)

1) Gravimetric Analysis (Any two)

- i) Gravimetric estimation of iron as Fe_2O_3 from a solution containing Ferrous ammonium sulphate and free sulphuric acid.
- ii) Gravimetric estimation of barium as BaSO_4 from a solution containing barium chloride and free hydrochloric acid.
- iii) Gravimetric estimation of nickel as $\text{Ni}(\text{DMG})_2$ from a solution containing $\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$ and free sulphuric acid
- IV) Gravimetric estimation of aluminium as Aluminium oxinate from a solution containing aluminium sulphate or potash alum and free sulphuric acid.

2) Inorganic Preparations (Any two)

- i) Preparations of sodium cuprous thiosulphate
- ii) Preparation of tris (ethylene diamine) nickel (II) thiosulphate
- iii) Preparation of hexammine nickel (II) chloride

3) Titrimetric Analysis (Any four)

(Calibration of burette, pipette and volumetric flask is essential)

- i) Fertilizer analysis : To determine percentage of nitrogen in the given sample of a nitrogenous fertilizer (ammonium sulphate). Known weight of the sample to be taken by the student. For preparing its solution which is to be refluxed with known excess of alkali. Standard HCl solution to be supplied.
- ii) Analysis of Synthetic /Commercial Sample : To estimate Magnesium from talcum powder.
- iii) Determination of total hardness of water using 0.01M EDTA solution.
(Students should standardize the given EDTA solution by preparing 0.01M CaCl_2 solution. using CaCO_3 salt.)
- iv) Determination of alkali content from antacid tablet using HCl solution .
- v) Vinegar Analysis : To estimate amount of acetic acid from vinegar sample
- Vi) Estimation of Calcium from chalk : To estimate amount of calcium from the chalk by titrimetric method. (By redox titration using KMnO_4 solution)
(Note : These experiments are performed by preparing calibrated sets of burettes, pipettes and volumetric flasks.)

4) Semi-micro qualitative analysis

Analysis of binary mixtures with non interfering cations and anions (at least 6 mixtures to be analyzed)

i) Following anions are to be given :

Cl^- , Br^- , I^- , NO_3^- , CO_3^{2-} , SO_4^{2-} , S^{2-} , BO_3^{3-} (insoluble CO_3^{2-} , S^{2-} , BO_3^{3-} may be given)

ii) Following cations are to be given :

Cu^{+2} , Cd^{2+}

Al^{+3} , Fe^{+3} , Cr^{+3} .

Zn^{+2} , Mn^{+2} , Ni^{+2} , Co^{+2} .

Ca^{+2} , Ba^{+2} .

Mg^{+2} .

NH_4^+ , K^+

Note:-Use of spot tests to be made whenever possible.

Reference Books:

1. Vogel's text book of Qualitative Inorganic analysis by A. I. Vogel .3rd and 6th edition
2. Vogel's text book of Quantitative Inorganic Chemistry by A. I. Vogel.
3. Physical Chemistry of Inorganic qualitative analysis by Kuricose & Rajaram.
4. Practical manual in water Analysis by Goyal & Trivedi.

5. Basic Concepts in Analytical Chemistry by S. M. Khopkar. Wiley Eastern Ltd.
6. Practical Chemistry, Physical , Inorganic , Organic and Viva voce by Balwant Rai Satija. Allied Publishers Private Limited.
7. College Practical Chemistry by H. N. Patel, S. R. Jakali, H. P. Subhedar, Miss. S. P. Turakhia. Himalaya Publishing House, Mumbai.
8. College Practical Chemistry by Patel, Jakali, Mohandas, Israney, Turakhia.

Organic Chemistry Practical's (Marks 30)

A) Organic Qualitative Analysis

Identification of at least **Eight** Organic compounds with reactions including two from acids, two from phenols, two from bases and two from neutrals.

Acids – Succinic acid, Phthalic acid, Salicylic acid, Aspirin.

Phenols – Alpha-Naphthol, o-nitrophenol, p-nitrophenol.

Bases – o-,m- and p-nitroanilines, Diphenyl amine.

Neutrals – Urea, Acetanilide, Carbon tetrachloride, Bromobenzene, Methyl acetate, Nitrobenzene, Naphthalene, Anthracene, Acetophenone, Ethyl methyl ketone.

Note : A systematic study of an organic substance involves reactions in the determination of elements and functional group.

B) Organic Quantitative Analysis

I) Estimations

- 1) Estimation of ester.
- 2) Estimation of acetone.
- 3) Estimation of vitamin C.

II) Organic preparations

- 1) p-nitro acetanilide from acetanilide.
- 2) Acetanilide from aniline using anhydrous $ZnCl_2$ and Zn dust.
- 3) Phthalimide from phthalic anhydride.
- 4) Benzoic acid from benzamide.

iii) **Demonstration of Thin layer chromatography.** Separation, identification and determination of R_f values

Reference Books :

1. Practical Organic Chemistry by A.I. Vogel.
2. Hand book of Organic qualitative analysis by H.T. Clarke.
3. A Laboratory Hand Book of Organic qualitative analysis and separation by V.S. Kulkarni. Dastane Ramchandra & Co.
4. Practical Organic Chemistry by F.G. Mann and B.C. Saunders. Low – priced Text Book. ELBS. Longman
5. Advanced Practical Organic Chemistry by N.K. Vishnoi. Vikas Publishing House Private Limited.
6. Advanced practical chemistry by J. Singh, L. D. S. Yadav, R. K. P. Singh, I. R. Siddiqui et.al, Pragati prakashan.

Practicals Physical chemistry (Marks 25 + Journal 10)

- 1) To study the hydrolysis of methyl acetate in presence of HCl and H_2SO_4 and to determine the relative strength of acids.
- 2) To study the effect of acid strength on hydrolysis of an ester by using 0.5M HCl and 0.25M HCl.
- 3) To study the reaction between potassium persulphate and potassium iodide in solution with equal concentration of the reactants.
- 4) To study the reaction between potassium persulphate and potassium iodide in solution with unequal concentration of the reactants.
- 5) To determine the degree of dissociation and dissociation constant of acetic acid at various dilutions and to verify Ostwald's dilution law conductmetrically.
- 6) To determine the normality of the given strong acid by titrating it against the strong alkali conduct metrically.
- 7) To determine the normality of the given weak acid by titrating it against the strong alkali conductometrically.
- 8) To determine the percentage composition of a given liquid mixture by viscosity method (Density data to be given).

- 9) To determine the specific and molar refractions of benzene, toluene and xylene by Abbe's Refractometer and to determine the refraction of CH₂ Group (Methylene group) (Densities should be determined by students).
- 10) To determine the specific rotation and unknown concentration of sugar solution.

Reference Books: -

- 1) Mendham, J.Vogel's Quantitative Chemical Analysis, Pearson 2009.
- 2) Khosla,B.D.; Garg, V.C. &Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co: New Delhi (2011).
- 3) Findlay' Practical Physical Chemistry (Longmann) 2015.
- 4) Practical Physical Chemistry: Gurtu (S. Chand) 2014.
- 5) Systematic Experimental Physical Chemistry: Rajbhoj, Chandekar (Anajali Publication) 2016.
- 6) Advanced Practical Physical Chemistry: J.B.Yadav (Goel Publishing House) 2015.

**B.Sc. II Revised Syllabus 2018-19
Sem.III & IV Nature of Question paper
Total Marks 50**

- Q.1 a. Answer the following in one sentence. 5**
- i)
 - ii)
 - iii)
 - IV)
 - V)
- b. Choose the correct alternative and rewrite the sentence again 5**
- I)
 - II)
 - III)
 - IV)
 - V)
- Q.2. Attempt any TWO of the following (Out of FOUR) 20**
- a)
 - b)
 - c)
 - d)
- Q.3. Answer any FOUR of the following (Out of SIX) 20**
- a)
 - b)
 - c)
 - d)

e)
f)

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.Sc Part- III

Chemistry

Syllabus to be implemented from

June, 2020 onwards.

INTRODUCTION

This syllabus is prepared to give the sound knowledge and understanding of chemistry to undergraduate students at last year of the B.Sc. degree course. The goal of the syllabus is to make the study of chemistry as stimulating, interesting and relevant as possible. The syllabus is prepared by keeping in mind the aim to make students capable of studying chemistry in academic and industrial courses and to expose the students, to develop interest in them in various fields of chemistry. The new and updated syllabus is based on disciplinary approach with vigour and depth taking care the syllabus is not heavy at the same time it is comparable to the syllabi of other universities at the same level. The syllabus is prepared after discussions of number of faculty members of the subject and by considering the existing syllabi of B.Sc. Part-I, II & III, new syllabi of XIth & XIIth standards, syllabi of NET and SET exams. U.G.C. model curriculum, syllabi of different entrance examination and syllabi of other Universities.

The units of the syllabus are well defined and the scope is given in detail. The periods required for units are given. The lists of reference books are given in detail.

OBJECTIVES

1. To promote understanding of basic facts and concepts in Chemistry while retaining the excitement of Chemistry
2. To make students capable of studying Chemistry in academic and Industrial courses and to expose the students to different processes used in Industries and their applications.
3. To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of chemical sciences.
4. To develop problem solving skills in students.
5. To developed ability and to acquire the knowledge of terms, facts, concepts, processes, techniques and principles of subjects.
6. To develop ability to apply the knowledge of contents of principles of chemistry.
7. To inquire of new knowledge of chemistry and developments therein.
8. To expose and to develop interest in the fields of chemistry
9. To develop proper aptitude towards the subjects
10. To develop the power of appreciations, the achievements in Chemistry and role in nature and society.
11. To develop skills required in chemistry such as the proper handling of apparatus and chemicals

Shivaji University, Kolhapur
B.O.S. in Chemistry
B.Sc. Part – III
Semester CBCS Syllabus
To be implemented from June – 2020

Equivalence

Sr. No.	Title of old paper (Syllabus implemented from June-2015)	Title of new paper (To be implemented from June-2020)
1	Paper – IX & XIII Physical Chemistry	Paper IX DSE-E5 and XIII DSE-F5 Inorganic Chemistry
2	Paper – X & XIV: Inorganic Chemistry	Paper- X DSE-E6 and XIV DSE-F6 Organic Chemistry
3	Paper-XI & XV: Organic Chemistry	Paper XI DSE-E7 and XV- DSE-F7 Physical Chemistry
4	Paper-XII & XVI: Analytical & Industrial Chemistry	Paper XII-DSE-E8 and XVI DSE-F8: Analytical & Industrial Chemistry

A repeater candidate, if any, will be allowed to appear for practical examination as per old course up to March / April 2021 examination.

List of Laboratory Equipments

Apparatus & Equipments

1. Digital balance with 1 mg accuracy
2. Conductometer
3. Potentiometer
4. pH Meter
5. Polarimeter
6. Colorimeter
7. Thermostat
8. Electric Oven
9. Suction Pump
10. Crucible Heater
11. IR Lamp
12. Magnetic stirrer
13. Buckner funnel
14. Water bath / Thermostat.
15. Platinum electrode
16. Glass electrode
17. Silver, Zinc, Copper electrodes
18. Conductivity cell
19. Distilled water plant.
20. Refractometer
21. Freeze
22. Deep Freeze
23. H₂S Apparatus
24. Muffle Furnace
25. Magnetic Stirrer

Glassware & Porcelain ware:

1. Burette (25/50 ml)
2. Micro burette (10 ml)
3. Pipette (5 ml,10 ml,25ml)
4. Graduated Pipette (1/2/5/10 ml)
5. Conical flask(100 ml, 250 ml)
6. Beakers (100 ml, 250 ml, 500 ml)
7. Volumetric flask (25ml,50 ml,100 ml, 250 ml)
8. Gooch Crucible / Sintered glass Crucible
9. Silica Crucible
10. Watch glass
11. Glass tubing
12. Glass Funnel (3")
13. Gas jar
14. Glass rod
15. Test Tubes (12 x100, 5x5x8)
16. Evaporating dish
17. TLC Unit
18. Measuring cylinder
19. Thiele's tubes
20. Fusion Tube
21. Capillary tube
22. Stopper bottle
23. Thermometer (1/10°, 360°)
24. Water condenser
25. Distillation flask (100 ml/ 250 ml)
26. Titration tiles.
27. Asbestos sheet.
28. Desiccators
29. Clay pipe triangle

Iron & Wooden ware:

1. Burners
2. Tripod stand
3. Iron stand
4. wire gauze
5. Burette stand
6. Test tube stand
7. Pair of tongs
8. Test tube holder
9. Spatula
10. Copper foil

Chemicals: All the chemicals required for experiments are mentioned in the syllabus.

Others:

1. Filter papers (Kalpi)
2. Whatman Filter paper No. 1, 40, 41 and 42.

Lab Safety Precautions / Measures in Chemistry Laboratory:

Part-I: Personal Precautions

1. All personnel must wear safety Goggles at all times.
2. Must wear the Lab. Aprons / Lab jacket and proper shoes.
3. Except in emergency, an over-hurried activity is forbidden.
4. Fume cupboard must be used whenever necessary.
5. Eating, Drinking and Smoking in the laboratories strictly forbidden.

Part-II: Use of safety and Emergency Equipments –

1. First aid kits.
2. Sand Bucket.
3. Fire extinguishers (dry chemical and carbon dioxide extinguisher).
4. Chemical storage cabinet with proper ventilation.
5. Material safety data sheets
6. Management of local exhaust system and fume hoods.
7. Sign in register if using instruments.

Nature of Theory Question Papers

N.B. The question paper should cover the entire syllabus. Marks allotted to questions should be in proportion to the lectures allotted to respective units.

Papers Semester V: IX-DSE-E5, X-DSE-E6, XI- DSE-E7, XII- DSE-E8,

Semester VI: XIII- DSE-F5, XIV-DSE-F6, XV-DSE-F7 and XVI- DSE-F8

Total Marks 40

Question No.	Details	Marks	Marks of Options
1.	Answer in one sentence (One mark for each question).	4	-
	Multiple choice questions (One mark for each question)	4	-
2.	Long answer type questions (2 out of 3)	20	10
3.	Short answer type questions (3out of 5)	12	08
	Total	40	18

SHIVAJI UNIVERSITY, KOLHAPUR
B.O.S. in Chemistry
B.Sc. Part – III
Semester CBCS Syllabus
To be implemented from June – 2020

General Structure

Theory Examination:

There will be four theory papers of 40 marks each for each semester. Their titles and distribution of marks are as follows.

Semester V : Papers IX-DSE-E5, X-DSE-E6, XI- DSE-E7, XII- DSE-E8,

Semester VI: Papers XIII- DSE-F5, XIV-DSE-F6, XV-DSE-F7 and XVI- DSE-F8

Paper – **IX** DSE-E5, & **XIII** DSE-F5: Inorganic Chemistry – 40 marks

Paper – **X** DSE-E6 & **XIV** DSE-F6: Organic Chemistry – 40 marks

Paper – **XI** DSE-E7 & **XV** DSE-F7: Physical Chemistry – 40 marks

Paper – **XII** DSE-E8 & **XVI** DSE-F8: Analytical and Industrial Chemistry – 40 marks

The duration of each theory paper for examination will be of 2 hours

Internal examination (Oral/Seminar/test/home assignment) will be conducted for 10 marks for each paper.

Practical Examination:

Practical examination will be of 200 marks. The distribution of marks will be as follows:

1. Physical Section : 60 marks
2. Inorganic Section : 65 marks
3. Organic Section : 60 marks
4. Project : 15 marks

Total: 200 marks

The duration of practical examination will be of three days – six and half hours per day.

CHEMISTRY
Semester Syllabus for B.Sc.-III

Theory

1. N. B. Figures shown in bracket indicate the total lectures required for the respective topics.
 2. The question paper should cover the entire syllabus. Marks allotted to questions should be in proportion to the lectures allotted to respective topics.
 3. All topics should be dealt with S.I. units.
 4. Study tour/industrial visit/visit to national institute or research laboratory is prescribed.
 5. Use of recent editions of reference books is essential.
 6. Use of scientific calculator is allowed.
 7. **Values required for spectral problems should be provided in the question paper.**
-

B.Sc. Part III (CBCS) SEMESTER-V
Paper No. DSE-E5, Chemistry Paper No. –IX
(Inorganic Chemistry)
(Theory Credits: 02, 30 hours, 37 lectures)

Expected Learning Outcomes:

Name of the topic	Expected Learning Outcome
1. Acids bases and Non-aqueous solvents	Useful for the study of role of acids and bases in Chemistry. The study of non –aqueous solvents is important to learn all chemical properties of solutes and from the research point of view.
2. Metal ligand bonding in transition metal complexes	Useful to understand geometry, stability and nature of bonding between metal ion and ligand in complexes.
3. Metals, semiconductors and Superconductors	The topic deals with the synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices.
4. Organometallic compounds	The structure, method of preparation and the applications of organo metallic compound in various fields are explained.
5. Catalysis	The classification, types, mechanism and applications of catalyst in industrial fields is explained.

Unit 1. Acids, Bases and Non aqueous Solvents

[8]

1.1 Introduction to theories of Acids and Bases-Arrhenius concept, Bronsted-Lowry concept, Lewis Concept, Lux-Flood Concept (definition and examples)

1.2 Hard and Soft Acids and Bases. (HSAB Concept)

1.2.1 Classification of acids and bases as hard, soft and borderline.

1.2.2 Pearson's HSAB concept.

1.2.3 Acid–Base strength and hardness-softness.

1.2.4 Applications and limitations of HSAB principle.

1.3 Chemistry of Non aqueous Solvents.

1.3.1 Introduction, definition and characteristics of solvents.

1.3.2 Classification of solvents.

1.3.3 Physical properties and Acid-Base reactions in Liquid Ammonia (NH₃) and Liquid Sulphur Dioxide (SO₂).

Unit 2. Metal Ligand bonding in Transition Metal Complexes

[10]

2.1 Crystal field theory (CFT)

2.1.1 Introduction: Shapes of d-orbitals, Basic assumptions of CFT.

2.1.2 Crystal field splitting of d-orbitals of metal ion in octahedral, tetrahedral, square planar complexes and John-Teller distortion.

2.1.3 Factors affecting the Crystal field splitting.

2.1.4 High spin and low spin octahedral complexes w.r.t. Co (II).

2.1.5 Crystal Field stabilization energy (CFSE), Calculation with respect to octahedral complexes only.

2.1.6 Limitations of CFT.

2.2 Molecular orbital theory (MOT).

2.2.1 Introduction.

2.2.2 MOT of octahedral complexes with sigma bonding such as $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$, $[\text{CoF}_6]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$.

2.2.3 Merits and demerits of MOT.

Unit 3. Metals, Semiconductors and Superconductors.

[9]

3.1 Introduction.

3.2 Properties of metallic solids.

3.3 Theories of bonding in metal.

i. Free electron theory.

ii. Molecular orbital theory (Band theory).

3.4 Classification of solids as conductor, insulators and semiconductors on the basis of band theory.

3.5 Semiconductors- Types - intrinsic and extrinsic and applications of semiconductors.

3.6 Superconductors: Ceramic superconductors - Preparation and structures of mixed oxide $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$.

3.7 Applications of superconductors.

Unit.4. Organometallic Chemistry. [4]

- 4.1 Definition, Nomenclature of organometallic compounds.
- 4.2 Synthesis and structural study of alkyl and aryl compounds of Be and Al.
- 4.3 Mononuclear carbonyls -Nature of bonding in simple mononuclear carbonyls.: $[\text{Ni}(\text{CO})_4]$,
 $[\text{Fe}(\text{CO})_5]$, $[\text{Cr}(\text{CO})_6]$.

Unit 5. Catalysis [5]

- 5.1 Introduction
- 5.2 Classification of catalytic reaction- Homogenous and Heterogeneous
- 5.3 Types of Catalysis.
- 5.4 Characteristics of catalytic reactions.
- 5.5 Mechanism of catalysis.
 - i. Intermediate compound formation theory.
 - ii. Adsorption theory.
- 5.6 Industrial applications of catalysis.

Reference Books:

1. Concise Inorganic Chemistry (ELBS, 5th Edition) – J. D. Lee.
2. Inorganic Chemistry (ELBS, 3rd Edition) D. F. Shriver, P. W. Atkins, C. H. Langford, Oxford University Press, 2nd Edition.
3. Basic Inorganic Chemistry : Cotton and Wilkinson.
4. Advanced Inorganic Chemistry (4th Edn.) Cotton and Wilkinson.
5. Concepts and Models of Inorganic Chemistry : Douglas and Mc. Daniel. 3rd Edition. John Wiley publication.
6. Structural principles in inorganic compounds. W. E. Addison.
7. Theoretical principles of Inorganic Chemistry – G. S. Manku.
8. Theoretical Inorganic Chemistry by Day and Selbina.
9. Co-ordination compounds. SFA Kettle.
10. Essentials of Nuclear Chemistry by H. J. Arnikar.
11. Nuclear Chemistry by M. N. Sastri.
12. Organometallic Chemistry by R. C. Mahrotra, A. Sing, Wiley Eastern Ltd. New Delhi.
13. Inorganic Chemistry by A. G. Sharpe, Addison – Wesley Longman – Inc.

14. Principles of Inorganic Chemistry by Puri, Sharma and Kalia, Vallabh Publication. Pitampur Delhi.
15. Text book of Inorganic Chemistry by K. N. Upadhyaya Vikas Publishing House – New Delhi.
16. Inorganic Chemistry 3rd Edn G. L. Miessler and D.A. Tarr, pearson publication.
17. Co-ordination compounds by Baselo and Pearson.
18. UGC Inorganic chemistry by H.C. Khera, Pragati prakashan
19. UGC Advanced Inorganic Chemistry by Agarwal and Keemtilal, Pragati Prakashan

B.Sc. Part III (CBCS) SEMESTER-V
Paper No. DSE-E6 Chemistry Paper No. X
(Organic Chemistry)
(Theory Credits: 02, 30 hours, 38 lectures)

Expected learning Outcomes:

Name of the topic	Expected Learning Outcome
1. Introduction to Spectroscopy	Understanding of energy associated with electromagnetic radiation and its use in analytical technique.
2. UV-Vis Spectroscopy	Knowledge of chromophore, auxochrome and calculation of λ_{\max} .
3. IR Spectroscopy	Knowledge of vibrational transitions, regions of IR spectrum, functional group recognition.
4. NMR Spectroscopy	Understanding of magnetic-non magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern
5. Mass spectroscopy.	Knowledge of molecular ion, fragmentation pattern and different types of ions produced.
6. Combined Problems based on UV-Vis, IR, NMR and Mass Spectral data	Student will predict the structure of organic compound with the help of provided spectral data.

Unit 1. Introduction to Spectroscopy

[03]

- 1.1 Meaning of spectroscopy.
- 1.2 Nature of electromagnetic radiation: wavelength, frequency, energy, amplitude, wave number and their relationship.
- 1.3 Different units of measurement of wavelength and frequency.
- 1.4 Different regions of electromagnetic radiations.
- 1.5 Interaction of radiation with matter: absorption, emission, fluorescence and scattering.
- 1.6 Types of spectroscopy and advantages of spectroscopic methods.
- 1.7 Energy types and energy levels of atoms and molecules.

Unit 2. UV-Vis Spectroscopy

[05]

- 2.1 Introduction.
- 2.2 Beer-Lambert's law, absorption of UV radiation by organic molecules leading to different excitations.
- 2.3 Terms used in UV Spectroscopy: Chromophore, Auxochrome, Bathochromic shift, hypsochromic shift, hyperchromic and hypochromic effect.
- 2.4 Modes of electromagnetic transitions.
- 2.5 Effect of conjugation on position of UV band.
- 2.6 Calculation of λ_{\max} by Woodward and Fischer rules for dienes and enones.
- 2.7 Colour and visible spectrum.
- 2.8 Applications of UV Spectroscopy.

Unit 3. IR Spectroscopy

[06]

- 3.1 Introduction.
- 3.2 Principles of IR Spectroscopy.
- 3.3 Instrumentation, schematic diagram.
- 3.4 Fundamental modes of vibrations, types and calculation.
- 3.5 Conditions for absorption of IR radiations.
- 3.6 Regions of IR spectrum, fundamental group region, finger print region.
- 3.7 Hook's Law for Calculation of vibrational frequency.
- 3.8 Factors affecting IR absorption frequency.

3.9 Characteristic of IR absorption of following functional groups a) alkanes, alkenes, alkynes b) alcohol and phenols c) ethers d) carbonyl compounds e) amines f) nitro compounds and g) aromatic compounds.

Unit 4. NMR Spectroscopy

[09]

- 4.1 Introduction.
- 4.2 Principles of PMR Spectroscopy.
- 4.3 NMR- Instrumentation, Schematic diagram.
- 4.4 Magnetic and nonmagnetic nuclei.
- 4.5 Chemical shift: definition, measurement, calculation, Factors affecting Chemical shift.
- 4.6 Shielding & deshielding.
- 4.7 Peak Integration.
- 4.8 Merits of TMS as PMR reference compound.
- 4.9 Coupling Constant.
- 4.10 Types of Coupling Constant.
- 4.11 Spin-spin splitting (n+1 rule).
- 4.12 Applications.

Unit 5. Mass Spectroscopy.

[08]

- 5.1 Introduction.
- 5.2 Principles of mass spectroscopy.
- 5.3 Mass spectrometer - schematic diagram.
- 5.4 Types of ions produced during fragmentation.
- 5.5 Nitrogen rule
- 5.6 Fragmentation patterns of: alkanes, alkenes, aromatic hydrocarbons, alcohols, phenols, amines and carbonyl compounds.
- 5.7 McLafferty rearrangement.
- 5.8 Applications.

Unit 6. Combined Problems based on UV, IR, NMR and Mass Spectral data.

[07]

Reference Books: (Use recent editions)

1. Absorption Spectroscopy of Organic Molecules by V.M.Parikh.
2. Spectroscopy of Organic compounds by P. S. Kalsi.
3. Elementary Organic Absorption Spectroscopy by Y. R. Sharma.
4. Instrumental Methods of Analysis (7th edition) by Willard, Merritt, Dean, Settle.
5. Spectroscopy by G. R. Chatwal and S. K. Anand
6. Spectroscopy by Pavia, Lampman, Kriz, Vyvyan
7. Organic Spectroscopy (2nd edition) by Jag Mohan
8. Organic Spectroscopy (3rd edition) by William Kemp
9. Instrumental Methods of Chemical Analysis by H. Kaur

B.Sc.-III (CBCS) SEMESTER V
Paper No. DSE- E7 Chemistry Paper No. XI
(Physical Chemistry)
(Theory Credits: 02, 30 hours, 38 lectures)

Expected learning Outcomes:

Name of the Topics	Expected Learning Outcome
1. Elementary quantum mechanics	Learning and understanding quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators (Hamiltonian), learning of Schrodinger wave equation. Physical interpretation of the ψ and ψ^2 . Particle in a one dimensional box
2. Spectroscopy	Knowledge about spectroscopy, Electromagnetic spectrum, Energy level diagram, Study of rotational spectra of diatomic molecules: Rigid rotor model, Microwave oven, vibrational spectra of diatomic molecules, simple Harmonic oscillator model, Raman spectra: Concept of polarizability, pure rotational and pure Vibrational Raman spectra of diatomic molecules, related knowledge will be gained by the students.
3. Photochemistry	Learning and understanding photochemical laws, reactions and various photochemical phenomena.
4. Solution	Learning the various types of solutions, relations vapour pressure, temperature relations.
5. Electromotive force	Learning and understanding the knowledge of emf measurements, types of electrodes, different types of cells, various applications of emf measurements.

Unit 1. Elementary quantum mechanics

[08]

- 1.1 Introduction.
- 1.2 Drawbacks of classical mechanics, Black body radiation, Photoelectric effect, Compton effect, Dual nature of matter and energy: De Broglie hypothesis.
- 1.3 The Heisenberg's uncertainty principle.
- 1.4 Concept of energy operators (Hamiltonian).
- 1.5 Derivation of Schrodinger wave equation, well behaved function.
- 1.6 Physical interpretation of the ψ and ψ^2 .
- 1.7 Particle in a one dimensional box.
- 1.8 Numerical problems.

Unit 2. Spectroscopy

[08]

- 2.1 Introduction.
- 2.2 Electromagnetic radiation.
- 2.3 Interaction of radiation with matter, Electromagnetic spectrum, Energy level diagram.
- 2.4 Rotational spectra of diatomic molecules: Rigid rotor model, moment of inertia, energy levels of rigid rotor, selection rules, Intensity of spectral lines, determination of bond length, isotope effect, Microwave oven
- 2.5 Vibrational spectra of diatomic molecules: Simple Harmonic oscillator model, Vibrational energies of diatomic molecules, Determination of force constant, overtones.
- 2.6 Raman spectra: Concept of polarizability, pure rotational and pure Vibrational Raman spectra of diatomic molecules, selection rules.
- 2.7 Comparative study of IR and Raman spectra, rule of mutual exclusion- CO_2 molecule.
- 2.8 Numerical problems.

Unit 3. Photochemistry

[06]

- 3.1 Introduction, Difference between thermal and photochemical processes.
- 3.2 Laws of photochemistry: i) Grotthus - Draper law ii) Lambert law iii) Lambert – Beer's law (with derivation) iv) Stark-Einstein law.

- 3.3 Quantum yield, Reasons for high and low quantum yield.
- 3.4 Factors affecting Quantum yield.
- 3.5 Photosensitized reactions – Dissociation of H_2 , Photosynthesis.
- 3.6 Photodimerisation of anthracene, decomposition of HI and HBr.
- 3.7 Jablonski diagram depicting various processes occurring in the excited state:
Qualitative description of fluorescence and phosphorescence.
- 3.8 Chemiluminescence, Electroluminescence and Bioluminescence.
- 3.9 Numerical problems.

Unit 4. Solutions

[06]

- 4.1 Introduction.
- 4.2 Ideal solutions, Raoult's law, Vapour pressure of ideal and non ideal solutions of miscible liquids.
- 4.3 Composition of liquid and vapour, vapour pressure and boiling point diagrams of miscible liquids. Distillation of miscible liquid pairs.
Type I : Systems with intermediate total vapour pressure (i.e. System in which b.p. increases regularly – Zeotropic).
Type II : Systems with a maximum in the total vapour pressure (i.e. System with a b.p. minimum – Azeotropic).
Type III : Systems with a minimum in the total vapour pressure (i.e. System with a b.p. Maximum – Azeotropic).
- 4.4 Solubility of partially miscible liquids.
 - i. Maximum solution temperature type: Phenol – water system.
 - ii. Minimum solution temperature type: Triethyl amine – water system.
 - iii. Maximum and minimum solution temperature type: Nicotine – water system.Distillation of partially miscible liquid pairs.
- 4.5 Vapour pressure and distillation of immiscible liquids, steam distillation.

Unit 5. Electromotive force

[10]

(Convention: Reduction potentials to be used)

- 5.1 Introduction
- 5.2 Thermodynamics of electrode potentials, Nernst equation for electrode and cell potentials in terms of activities.
- 5.3 E.M.F. series.
- 5.4 Types of electrodes: Description in terms of construction, representation, half cell reaction and emf equation for
 - i) Metal – metal ion electrode.
 - ii) Amalgam electrode.
 - iii) Metal – insoluble salt electrode.
 - iv) Gas – electrode.
 - v) Oxidation – Reduction electrode.
- 5.5 Reversible and Irreversible cells.
 - i. Chemical cells without transference.
 - ii. Concentration cells with and without transference.
 - iii. Liquid – Liquid junction potential: Origin, elimination and determination.
- 5.6 Equilibrium constant from cell emf, Determination of the thermodynamic parameters such as ΔG , ΔH and ΔS .
- 5.7 Applications of emf measurements :
 - i. Determination of pH of solution using Hydrogen electrode.
 - ii. Solubility and solubility product of sparingly soluble salts (based on concentration cells).
- 5.8 Numerical problems.

Reference Books:

1. Physical Chemistry by G. M. Barrow, International student Edition, Mc Graw Hill.
2. University General Chemistry by C.N.R. Rao, Macmillan.
3. Physical Chemistry by, R. A. Alberty, Wiley Eastern Ltd.
4. The Elements of Physical Chemistry by P. W. Atkins, Oxford.
5. Principles of Physical Chemistry by S. H. Maron, C. H. Prutton, 4th Edition.

6. Nuclear and Radiochemistry by Friedlander, Kennedy and Miller, John Wiley and Sons.
Wiley International edition.
7. Essentials of Nuclear Chemistry by H. J. Arnikar, 4th edition. Wiley Eastern.
8. Principles of Physical Chemistry by Puri, Sharma, Pathania, Shobhanlal Naginchand and Company, Jalandar.
9. Instrumental methods of chemical analysis by Chatwal and Anand, 5th Edition,
Himalaya Publication.
10. Fundamentals of molecular spectroscopy by C. N. Banwell – Tata Mc Graw-Hill.
11. Quantum Chemistry including molecular spectroscopy by B. K. Sen, Tata Mc
Graw -Hill.
12. Text Book of Physical Chemistry by S. Glasstone, Macmillan India Ltd.
13. Elements of Physical Chemistry by D. Lewis and S. Glasstone (Macmillan).
14. Principles of Physical Chemistry by Maron and Lando (Amerind).
15. Electrochemistry by S. Glasstone.
16. Physical Chemistry by W. J. Moore.
17. Basic Chemical Thermodynamics by V. V. Rao (Macmillan).
18. Essential of Physical Chemistry, Bahl and Tuli (S. Chand).
19. Text Book of Physical Chemistry, Soni and Dharmarha.
20. Advanced Physical Chemistry Gurdeep Raj GOEL Publishing House, 36th Edition

B.Sc. Part III (CBCS) SEMESTER-V
Paper No. DSE-E8 Chemistry paper No. XII
(Analytical Chemistry)
(Theory Credits: 02, 30 hours, 38 lectures)

Expected learning Outcomes:

Name of the topic	Expected Learning Outcome
1.Theory of Gravimetric Analysis	Learning and understanding the techniques of gravimetric analysis.
2.Flame Photometry	Knowledge of instrumental analysis of alkali and alkaline earth elements.
3.Colorimetry and Spectrophotometry	Understanding, working and applications of optical methods as an analytical tool.
4.Potentiometric titrations	Understanding theory and applications of potentiometric titrations.
5.Chromatographic techniques and Quality control	Understanding the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries / laboratories.

Unit 1. Theory of Gravimetric Analysis

[08]

- 1.1 Introduction.
- 1.2 Gravimetric analysis by precipitation: nucleation, crystal growth, digestion/ageing, filtration, drying, ignition, weighing.
- 1.3 Optimum conditions for good precipitation.
- 1.4 Physical nature of precipitate.
- 1.5 Purity of precipitate: co-precipitation, post-precipitation.
- 1.6 Organic precipitants and their applications.

Unit 2. Flame Photometry

[06]

- 2.1 Introduction.
- 2.2 General principles of flame photometry.
- 2.3 Instrumentation: Block diagram, Burners (Premix and Lundergraph burners), mirror, slits, filters, detector (Photomultiplier tube).
- 2.4 Effect of solvent in flame photometry.

- 2.5 Experimental procedure of analysis (Standard addition and internal standard).
- 2.6 Interferences and Factors that influence the intensity of emitted radiation in a flame photometer.
- 2.7 Applications of flame photometry in real sample analysis.
- 2.8 Limitations of flame photometry.

Unit 3. Colorimetry and Spectrophotometry

[06]

- 3.1 Theory of colorimetry and spectrophotometry.
- 3.2 Lambert Beer's law, deviation from Beer's law.
- 3.3 Terms used in colorimetry and spectrophotometry.
- 3.4 Classification of methods of 'colour' measurement or comparison.
- 3.5 Photoelectric colorimeter method–Single beam photo-electric colorimeter.
- 3.6 Spectrophotometer method–Single beam direct reading spectrophotometer.
- 3.7 Determination of unknown concentration by using concentration-absorbance plot.
- 3.8 Applications of colorimetry and spectrophotometry.

Unit 4. Potentiometric titrations

[07]

- 4.1 Introduction.
- 4.2 Determination of pH.
- 4.3 Study of Quinhydrone and Glass electrodes and their use in determination of pH.
- 4.4 Potentiometric titrations: Classical and analytical methods for locating end points.
- 4.5 Acids- Bases titration with suitable example.
- 4.6 Redox titration with suitable example.
- 4.7 Precipitation titration with suitable example.
- 4.8 Basic circuit of direct reading potentiometer.
- 4.9 Advantages of potentiometric titrations.

Unit 5. Chromatographic techniques and Quality control

[10]

- 5.1 Introduction, classification.

- 5.2 **Column chromatography:** Introduction, types, Principle of adsorption column chromatography, solvent system, stationary phases, Methodology-Column packing, applications of sample, development, detection methods, recovery of components, Applications.
- 5.3 **Ion exchange chromatography:** Introduction, Principle, Types and properties of ion exchangers, Methodology-Column packing, application of sample, elution, detection/analysis, Applications.
- 5.4 **Concepts in Quality control**
- i. Introduction and Concept of quality.
 - ii. Quality control.
 - iii. Quality assurance.
 - iv. ISO series.
 - v. Good laboratory practices.

References

1. Text Book of Quantitative inorganic analysis – A.I.Vogel.
2. Instrumental methods of chemical analysis –Willard, Merit & Dean.
3. Instrumentals methods of chemical analysis – Chatwal & Anand.
4. Vogel’s textbook of qualitative inorganic analysis – Bassett, Denny etc.
5. Textbook of qualitative inorganic analysis – Kolthoff and Sandel.
6. Fundamentals of analytical chemistry – Skoog and West.
7. Basic concepts of analytical chemistry – S.M. Khopkar.
8. Text book of qualitative chemical analysis – Vogel.
9. Handbook of quality assurance for the analytical chemistry laboratory – James P.Dux, Van Nostrand Reinhold, New York 1986.
10. Instrumental methods of chemical analysis – H.Kaur.
11. A text book of Quantitative chemical analysis Vogel’s by J.Mendham, R. C. Denney.
12. Quantitative Chemical Analysis – Daniel C. Harris.
13. Applying ISO 9000 Quality management system, International trade centre publishing genera, Indian edition printed by D. L. Shaha Trust.

B.Sc. Part III (CBCS) SEMESTER -VI
Paper No. DSE-F5, Chemistry Paper No. –XIII
(Inorganic Chemistry)
(Theory Credits: 02, 30 hours, 38 lectures)

Expected Learning Outcome

Name of the topic	Expected Learning Outcome
1.Coordination Chemistry	The topic focused on the mechanism of the reactions involved in inorganic complexes of transition metals. The students can understand the thermodynamic and kinetic aspects of metal complexes.
2.Nuclear Chemistry	The generation of nuclear power with the help of nuclear reactions is highlighted. Role of radio isotopes in medicinal, industrial and Archaeology fields is explained.
3.Chemistry of f-block Elements	The characteristics, properties and separation of lanthanides and Actinides are discussed. Synthesis and IUPAC Nomenclature of trans uranic elements (TU) explained.
4.Iron and Steel	The techniques involve in ore dressing and extraction of cast iron from its ore are discussed.
5.Bio –inorganic Chemistry	Role of various metals and non metals in our health are discussed.

Unit 1. Coordination Chemistry

[12]

A. Inorganic Reaction mechanism

- 1.1 Introduction.
- 1.2 Classification of Mechanism: Association, dissociation, interchange and the rate determining steps.
- 1.3 S_N^1 and S_N^2 reactions for inert and labile complexes.
- 1.4 Mechanism of substitution in cobalt (III) octahedral complexes.
- 1.5 Trans effect and its theories.
- 1.6 Applications of trans effect in synthesis of Pt (II) complexes.

B. Thermodynamic and Kinetic aspects of metal complexes.

- 1.7 Introduction.
- 1.8 Thermodynamic stability.

- 1.9 Kinetic Stability.
- 1.10 Relation between thermodynamic and kinetic stability.
- 1.11 Stepwise stability constant.
- 1.12 Factor affecting the stability of complexes.
- 1.13 Determination of Stability constant by Job variation, Mole ratio and Slope ratio method.

Unit 2. Nuclear Chemistry

[05]

- 2.1 Nuclear reactions and energetic of nuclear reactions.
- 2.2 Types of nuclear reactions
 - i. Artificial transmutation.
 - ii. Artificial radioactivity.
 - iii. Nuclear fission and its application in heavy water nuclear reactor.
 - iv. Nuclear fusion.
- 2.3 Use of Thorium, Uranium and Plutonium in atomic energy
- 2.4 Applications of radio-isotopes as tracers.
 - i. Chemical investigation – Esterification.
 - ii. Structural determination – Phosphorus pentachloride.
 - iii. Analytical Chemistry – Isotopic dilution method for determination of volume of blood.
 - iv. Age determination – Dating by C^{14} .

Unit 3. Chemistry of f- Block Elements

[09]

A | Lanthanides

- 3.1 Introduction.
- 3.2 Occurrence.
- 3.3 Electronic Configuration.
- 3.4 Oxidation State.
- 3.5 Lanthanide contraction.
- 3.6 Separation of Lanthanides by Ion exchange method.

B| Actinides

3.7 Position in periodic table.

3.8 Electronic configuration.

3.9 General methods of preparation of transuranic elements.

i. Neutron capture – followed by β decay.

ii. Accelerated projectile bombardment.

iii. Heavy ion bombardment.

3.10 IUPAC nomenclature of the super heavy elements with atomic number (Z) greater than 100.

Unit 4. Iron and Steel.

[07]

4.1 Occurrence and ores of iron.

4.2 Definition of the Terms- Ore, Mineral, Slag, Flux, Gangue, Matrix, Calcinations, Reduction, Roasting, Smelting and Leaching.

4.3 Extraction of iron by Blast furnace.

4.4 Steel: Definition and types.

4.5 Conversion of cast iron into steel by

i. Bessemer process.

ii. L.D. process.

4.6 Heat treatment on steel.

Unit 5. Bio-inorganic Chemistry.

[05]

5.1 Introduction.

5.2 Essential and trace elements in biological process.

5.3 Metalloporphyrins with special reference to hemoglobin and myoglobin.

5.4 Biological role of alkali and alkaline earth metal ions with special referenc to Na^+ , K^+ and Ca^{2+}

Reference Books: (Use recent editions)

1. Concise Inorganic Chemistry (ELBS, 5th Edition) – J. D. Lee.

2. Inorganic Chemistry (ELBS, 3rd Edition) D. F. Shriver, P. W. Atkins, C. H. Langford, Oxford University Press, 2nd Edition.
3. Basic Inorganic Chemistry : Cotton and Wilkinson.
4. Advanced Inorganic Chemistry (4th Edn.) Cotton and Wilkinson.
5. Concepts and Models of Inorganic Chemistry : Douglas and Mc. Daniel. 3rd Edition. John Wiley publication.
6. Structural principles in inorganic compounds. W. E. Addison.
7. Theoretical principles of Inorganic Chemistry – G. S. Manku.
8. Theoretical Inorganic Chemistry by Day and Selbine.
9. Co-ordination compounds. SFA Kettle.
10. Essentials of Nuclear Chemistry by H. J. Arnikar.
11. Nuclear Chemistry by M. N. Sastri
12. Organometallic Chemistry by R. C. Mahrotra A. Sing, Wiley Eastern Ltd. New Delhi.
13. Inorganic Chemistry by A. G. Sharpe, Addison – Wesley Longman – Inc.
14. Principles of Inorganic Chemistry by Puri, Sharma and Kalia, Vallabh Publication. Pitampur Delhi.
15. Text book of Inorganic Chemistry by K. N. Upadhyaya Vikas Publishing House – New Delhi.
16. Inorganic Chemistry 3rd edn G. L. Miessler and D.A. Tarr, Pearson publication
17. Co-ordination compounds by Baselo and Pearson.
18. UGC Inorganic chemistry by H.C. Khera, Pragati prakashan
19. UGC Advance Inorganic Chemistry by Agarwal and Keemtilal, Pragati Prakashan

B.Sc. Part III (CBCS) SEMESTER-VI
Paper No. DSE-F6 Chemistry Paper No. XIV
(Organic Chemistry)
(Theory Credits: 02, 30 hours, 38 Lectures)

Expected learning Outcomes:

Name of the topic	Expected Learning Outcome
1. Reagents and Reactions in Organic Synthesis	Knowledge of reagents used in organic transformations and various reactions used in organic synthesis.
2. Retrosynthesis	Knowing basic terms used in retrosynthetic analysis, retrosynthesis of some organic compounds.
3. Electrophilic addition to $>C=C<$ and $-C\equiv C-$ bond	Student will learn addition reaction across $>C=C<$ bond w.r.t. hydrohalogenation, hydration hydroxylation, ozonolysis and addition of halogen, halogen acid, hydrogen, water, etc. across $-C\equiv C-$ bond.
4. Natural Products	Knowledge of terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics and classification. Analytical and synthetic evidences of Citral and Nicotine.
5. Pharmaceuticals	Understanding classification of drugs, Qualities of ideal drug. Synthesis and uses of some representative drugs and Drug action of sulpha drugs.

Unit 1. Reagents and Reactions in Organic Synthesis

[10]

A) Reagents

Preparation and Applications of following reagents.

1. Lithium aluminium hydride $LiAlH_4$.
2. Raney Nickel.
3. Osmium tetroxide.

4. Selenium dioxide (SeO_2).
5. Dicyclohexyl Carbodiimide (DCC).
6. Diazomethane.

B] Reactions

Statement, General Reaction, Mechanism and Synthetic applications

1. Diels -Alder reaction.
2. Meerwein –Pondorff-Verley reduction.
3. Hofmann rearrangement.
4. Wittig reaction.
5. Wagner- Meerwein rearrangement.
6. Baeyer Villiger oxidation.
7. Problem based on above reactions.

Unit 2. Retrosynthesis

[06]

- 2.1 Introduction.
- 2.2 Recapitulation of basics of reaction mechanism and reagents.
- 2.3 Terms used- Target molecule (TM), Disconnection, Synthons, Synthetic equivalence, Functional group interconversion (FGI), one group disconnection (w. r. t. suitable examples).
- 2.4 Retrosynthetic analysis and synthesis of target molecules: Cinnamaldehyde, Cyclohexene, para methoxy acetophenone, Methyl-3-phenyl propionate, α,α -dimethyl benzyl alcohol, Paracetamol.

Unit 3. Electrophilic addition to $>\text{C}=\text{C}<$ and $-\text{C}\equiv\text{C}-$ bonds [08]

A. Addition to Carbon-Carbon double ($>\text{C}=\text{C}<$) bond:

- 3.1 Introduction.
- 3.2 Examples of addition reactions.
- 3.3 Mechanism of electrophilic addition to $>\text{C}=\text{C}<$ bond, orientation & reactivity,
 - i. Hydrohalogenation.
 - ii. Anti-Markovnikoff's addition (peroxide effect).
 - iii. Rearrangements (support for formation of carbocation).

- iv. Addition of halogens.
- v. Addition of water.
- vi. Addition of hypohalous acids (HO-X).
- vii. Hydroxylation (formation of 1,2-diols).
- viii. Hydroboration-oxidation (formation of alcohol).
- ix. Hydrogenation (formation of alkane).
- x. Ozonolysis (formation of aldehydes & ketones).

B. Addition to Carbon-Carbon triple ($-C\equiv C-$) bond:

3.4 Introduction.

3.5 Examples of addition reactions.

3.6 Mechanism of electrophilic addition to $-C\equiv C-$ bond.

- i. Addition of halogens.
- ii. Addition of halogen acids.
- iii. Addition of hydrogen.
- iv. Addition of water.
- v. Formation of metal acetylides.

Reference books:

1. Organic Reactions and Their Mechanisms P. S. Kalsi 3rd Revised edition.
2. Advanced organic Chemistry by B.S. Bahl & Arun Bhal (Reprint in 1997)
3. Organic Chemistry by Morrison and Boyd 6th edition.

Unit 4. Natural Products

[08]

A] Terpenoids:

- 4.1 Introduction, Occurrence, Isolation, General Characteristic, Classification.
- 4.2 General Methods for structure determinations.
- 4.3 Isoprene rule.
- 4.4 Analytical evidences and synthesis of Citral.

B] Alkaloids:

- 4.5 Introduction, Occurrence, Isolation, Classification, Properties.
- 4.6 General Methods for structure determination.

4.7 Analytical evidences and synthesis of Nicotine.

Unit 5. Pharmaceuticals

[06]

- 5.1 Introductio.
- 5.2 Classification.
- 5.3 Qualities of ideal drug.
- 5.4 Synthesis and uses of ethambutal, phenobarbitone, isoniazide, benzocaine, Chloramphenicol, paludrine.
- 5.5 Drug action of sulphadiazine.

Reference books:1

1. Advanced Organic Chemistry : Reactions, Mechanisms and structure by – Jerry March.
2. Reagents for Organic Synthesis by Louis F. Fieser , Mary Fieser -1967.
3. A Text book of Practical Organic Chemistry including Qualitative Organic Analysis by A. I.Vogel.
4. Mechanism and Structure in Organic Chemistry. April,1963 By Edwin S.Gould.
5. A text book of Organic Chemistry by Arun Bahl, B.S.Bhal Eighteenth Revised edition 2006.
6. A guidebook to mechanism in Organic Chemistry sixth Edition by Peter Syke.
7. Organic Synthesis: The Disconnection Approach by Stuart Warren.
8. Organic Synthesis Through Disconnection Approach by P. S. Kalsi
9. Fundamentals of Organic Synthesis the Retrosynthetic Analysis by Ratan Kumar Kar
10. Organic Reactions and Their Mechanisms P. S. Kalsi 3rd Revised edition.
11. Advanced organic Chemistry by B.S. Bahl & Arun Bhal (Reprint in 1997)
12. Organic Chemistry by Morrison and Boyd 6th edition.
13. Organic Chemistry Vol II Stereochemistry and the Chemistry of Natural Products (5th ed) by I. L.Finar.
14. Organic Chemistry Natural Products Vol I, by O. P.Agrawal
15. Industrial Chemistry-B.K. Sharma, Goyal publishing house,Mirut
16. Shreeves chemical process industries 5th Edition, G.T. Oustin, McGrawHill
17. Riegel`s hand book of Industrial chemistry, 9th Edition, Jems A.Kent
18. Industrial chemistry –R.K. Das, 2nd Edition,1976.

19. Synthetic drugs by M.S.Yadav,Campus book international.

B.Sc. III (CBCS) SEMESTER-VI
Paper No. DSE-F 7 Chemistry Paper No. XV
(Physical Chemistry)
(Theory Credits: 02, 30 hours, 37 Lectures)

Expected Program Outcomes:

Name of the Topics	Expected Learning Outcome
1. Phase equilibria	Learning and understanding of phase rule, learning of One component, Two component and Three component systems phase diagrams with suitable examples.
2. Thermodynamics	Knowledge about basic concept of Thermodynamics, free energy, Gibbs-Helmholtz equation and its applications, problem related with it.
3. Solid state chemistry	Learning and understanding Space lattice, lattice sites, Lattice planes, Unit cell. Laws of crystallography, Weiss indices and Miller indices, Cubic lattices and types of cubic lattice, planes or faces of a simple cubic system, Diffraction of X-rays, Derivation of Bragg's equation. Determination of crystal structure by Bragg's method. crystal structure of NaCl and KCl on the basis of Bragg's equation.
4. Chemical kinetics	Learning of kinetics, Simultaneous reactions such as i)opposing reaction ii)side reaction iii)consecutive reactions: iv) chain reaction v) explosive reaction
5. Distribution law	Learning and understanding the knowledge of distribution law, its modifications, applications of distribution laws, process of extraction, determination of solubility, distribution indicators, molecular weights.

Unit 1. Phase Equilibria

[07]

1.1 Introduction.

1.2 Gibbs phase rule : Phase rule equation and explanation of terms involved in the equation.

1.3 Phase diagram, true and metastable equilibria.

1.4 One component systems:

- i. Water system.
- ii. Sulphur system with explanation for polymorphism.

1.5 Two component systems:

- i. Eutectic system: (Ag – Pb system); Desilverisation of lead.
- ii. Freezing mixture: (KI –H₂O system).
- iii. Formation of compound with congruent melting point (FeCl₃ – H₂O).

1.6 Three component solid-liquid system:

- i. Development of triangular phase diagram: (Acetic acid – Chloroform –water system).

Unit 2. Thermodynamics

[09]

2.1 Introduction.

2.2 Free energy: Gibbs function (G) and Helmholtz function (A), Criteria for thermodynamic equilibrium and spontaneity.

2.3 Relation between ΔG and ΔH : Gibbs-Helmholtz equation.

2.4 Phase equilibria : Clapeyron – Clausius equation and its applications.

2.5 Thermodynamic derivation of law of mass action, Van't – Hoff isotherm and isochore.

2.6 Fugacity and activity concepts.

2.7 Partial molar quantities, Partial molar volume, Concept of chemical potential, Gibbs-Duhem equation.

2.8 Numerical problems.

Unit 3. The Solid State

[09]

3.1 Introduction: Space lattice, lattice sites, lattice planes, unit cell.

3.2 Laws of crystallography:

- i. Law of constancy of interfacial angles
- ii. Law of rational indices
- iii. Law of crystal symmetry.

3.3 Weiss indices and Miller indices.

- 3.4 Cubic lattice and types of cubic lattice, planes or faces of a simple cubic system, spacing of lattice planes.
- 3.5 Diffraction of X-rays, Derivation of Bragg's equation.
- 3.6 Determination of crystal structure by Bragg's method.
- 3.7 Determination of crystal structure of NaCl and KCl on the basis of Bragg's equation.
- 3.8 Numerical problems.

Unit 4. Chemical Kinetics

[06]

- 4.1 Introduction.
- 4.2 Simultaneous reactions such as
 - i. Opposing reaction: (Derivation of rate equation for first order opposed by first order expected).
 - ii. Side reaction.
 - iii. Consecutive reactions.
 - iv. Chain reaction.
 - v. Explosive reaction (Derivation of rate equation and Numerical problems are not expected).

Unit 5. Distribution law

[06]

- 5.1 Introduction, solute, solvent and solution, miscible and immiscible liquids.
- 5.2 Nernst distribution law and its limitations.
- 5.3 Modification of distribution law with respect to change in molecular state of solute (association and dissociation of solute in one of the solvent).
- 5.4 Applications of the distribution law
 - i. Process of extraction (derivation expected).
 - ii. Determination of solubility of solute in particular solvent.
 - iii. distribution indicators.
 - iv. determination of molecular weight of solute in different solvents.
- 5.5 Numerical problems.

Reference Books:

1. Physical Chemistry by G. M. Barrow, International student Edition, Mc Graw Hill.
2. University General Chemistry by C.N.R. Rao, Macmillan.
3. Physical Chemistry by, R. A. Alberty, Wiley Eastern Ltd.
4. The Elements of Physical Chemistry by P. W. Atkins, Oxford.
5. Principles of Physical Chemistry by S. H. Maron, C. H. Prutton, 4th Edition.
6. Nuclear and Radiochemistry by Friedlander, Kennedy and Miller, John Wiley and Sons. Wiley International edition.
7. Essentials of Nuclear Chemistry by H. J. Arnikar, 4th edition. Wiley Eastern.
8. Principles of Physical Chemistry by Puri, Sharma, Pathania, Shobhanlal Naginchand and Company, Jalandar.
9. Instrumental methods of chemical analysis by Chatwal and Anand, 5th Edition, Himalaya Publication.
10. Fundamentals of molecular spectroscopy by C. N. Banwell – Tata Mc Graw-Hill.
11. Quantum Chemistry including molecular spectroscopy by B. K. Sen, Tata Mc Graw -Hill.
12. Text Book of Physical Chemistry by S. Glasstone, Macmillan India Ltd.
13. Elements of Physical Chemistry by D. Lewis and S. Glasstone (Macmillan).
14. Principles of Physical Chemistry by Maron and Lando (Amerind).
15. Electrochemistry by S. Glasstone.
16. Physical Chemistry by W. J. Moore.
17. Basic Chemical Thermodynamics by V. V. Rao (Macmillan).
18. Essential of Physical Chemistry, Bahl and Tuli (S. Chand).
19. Text Book of Physical Chemistry, Soni and Dharmarha.
20. Advanced Physical Chemistry Gurdeep Raj GOEL Publishing House, 36th Edition

B. Sc. Part III (CBCS) SEMESTER-VI
Paper No. DSE-F8 Chemistry Paper No. XVI
(Industrial Chemistry)
(Theory Credits: 02, 30 hours, 38 lectures)

Expected learning Outcomes:

Name of the topic	Expected Learning Outcome
1.Sugar Industry	Learning and understanding the whole process of manufacture of sugar and byproducts of sugar industry.
2.Manufacture of industrial heavy chemicals	Learning and understanding of physico-chemical principles of production of ammonia, sulfuric acid, nitric acid and sodium carbonate along with its manufacturing plant.
3.Synthetic polymers	Understanding and learning the classification, synthesis and applications of various polymers.
4.Petroleum industry and eco-friendly fuels	Understanding the petroleum Industry, fuels and need of use of ecofriendly fuels.
5.Nanotechnology	Understanding and learning of nanotechnology including classification, optical properties, synthesis routes, characterization techniques and applications of nano-materials.

Unit 1. Sugar Industry

[07]

- 1.1 Introduction.
- 1.2 Manufacture of cane sugar in India: Extraction of juice, Clarification, Concentration, crystallization, centrifugation and other details of industrial process.
- 1.3 Byproducts of sugar industry.
- 1.4 Manufacture of Ethyl Alcohol from Molasses: by Fermentation.

Unit 2. Manufacture of Industrial Heavy Chemicals

[08]

- 2.1 Introduction
- 2.2 Manufacture of Ammonia (NH₃)
 - i. Physico-chemical principles.

ii. Manufacture by Haber's process.

2.3 Manufacture of Sulphuric acid (H_2SO_4)

i. Physico-chemical principles.

ii. Manufacture by Contact process.

2.4 Manufacture of Nitric acid (HNO_3)

i. Physico-chemical principles.

ii. Manufacture by Ostwald's process (Ammonia oxidation process).

2.5 Manufacture of Sodium carbonate (Na_2CO_3) (Washing soda).

i. Physico-chemical principles.

ii. Manufacture by Solvay process.

Unit 3. Synthetic Polymers

[08]

3.1 Introduction.

3.2 Classification.

i. Based on origin.

ii. Based on composition-organic, inorganic polymers.

iii. Based on method of preparation.

iv. Based on general physical properties.

v. Based on structure.

3.3 Addition Polymerization: Free radical addition and ionic addition polymerization.

3.4 Ziegler-Natta polymerization.

3.5 Methods of preparation and applications of some organic polymers: Polyethylene, polystyrene, polyvinyl chloride, Phenol-formaldehyde resin.

3.6 Conducting organic polymers: Synthesis and properties of Polyaniline, polypyrrole.

3.7 Applications of conducting organic polymers.

Unit 4. Petroleum industry and eco-friendly fuels

[07]

A] Petroleum industry

Introduction, occurrence, composition of petroleum, resources, processing of petroleum, calorific value of fuel, cracking, octane rating (octane number), cetane

number, flash point, petroleum refineries, applications of petrochemicals, synthetic petroleum, lubricating oils & additives.

B| Fuels

Fuels and eco-friendly fuels: liquid, gaseous fuel (LPG, CNG), fossil fuels, diesel, bio diesel, gasoline, aviation fuels. Use of solar energy for power generation.

Unit 5. Nanotechnology

[08]

- 5.1 Introduction of nanotechnology, history, Classification of nanoparticles based on size.
- 5.2 Optical properties of Nanomaterial's
 - i. Semiconducting NPs.
 - ii. Metallic NPs.
- 5.3 Synthetic Routes of nanomaterials: Top-down and bottom-up approaches.
- 5.4 Synthesis methods: Sol-gel, precipitation, chemical reduction, chemical vapor deposition, hydrothermal, electrodeposition.
- 5.5 Characterization of nanomaterials: X-Ray diffractometer, Scanning Electron Microscope, Transmission electron microscope.
- 5.6 Applications of nanotechnology.

References:

1. Industrial Chemistry-B.K. Sharma
2. Chemical process industries – Shrieve & Brink
3. Industrial chemistry – Kent
4. Industrial chemistry – Rogers
5. Industrial chemistry – R. K. Das
6. Mechanical chemistry – Burger
7. Nanotechnology: Principles and Practices – Sulbha Kulkarni
8. The Petroleum chemicals industry by R. F. Goldstine, e &Fn London
9. Fundamentals of petroleum chemical technology by P Below.
10. Petro Chemicals Volume 1 and 2 ; A Chauvel and Lefevrev ; Gulf Publishing company

Laboratory Course (Practicals)

N. B. (i) Use of Digital/Analytical/Chainometric/Single pan balance is allowed.

(ii) Use of Scientific calculator is allowed.

(iii) Use of Chart/Text book/Hand book of practical is allowed.

(iv) There will be a project having weightage of 15 marks.

Project should be in the following areas but focused on applications of Chemistry.

a) Society oriented

b) Daily use

c) Industry based

d) Analysis based

The project will be assessed by all the three examiners with equal weightage at the time of practical examinations.

The project may be completed individually or by a group of students not exceeding number three.

One copy of the project should be submitted at the time of examination. After assessment this copy will remain in the department.

INORGANIC CHEMISTRY

I) Gravimetric Estimations (G).

N. B. Any **two** experiments from G1 to G3 and any **two** experiment from G4 & G6.

G1. Gravimetric estimation of iron as ferric oxide (Fe_2O_3) from the given solution containing ferrous ammonium sulphate, copper sulphate and free sulphuric acid.

G2. Gravimetric estimation of zinc as zinc pyrophosphate from the given solution

containing zinc sulphate, ferrous ammonium sulphate and free sulphuric acid.

- G3.** Gravimetric estimation of barium as barium sulphate(BaSO_4) from the given solution containing barium chloride, ferric chloride and free hydrochloric acid.
- G4.** Gravimetric estimation of barium as barium chromate(BaCrO_4) from the given solution containing barium chloride, ferric chloride and free hydrochloric acid.
- G5.** Gravimetric estimation of nickel as bis (dimethylglyoximate) nickel (II) from the given solution containing nickel sulphate, ferrous ammonium sulphate and free Sulphuric acid.
- G6.** Gravimetric estimation of aluminium as aluminium oxinate potassium tris (8-hydroxy quinolato) aluminium (III) from the given solution containing potash alum ,copper sulphate and free sulphuric acid.

[For the gravimetric experiments, stock solution should be given in the range of 10 to 15 cm^3 and asked to dilute to 100 cm^3 (or the stock solution should be given in the range of 20 to 30 cm^3 and asked to dilute to 250 cm^3). Use 50 cm^3 of this diluted solution for estimation.]

II. Inorganic Preparations (P).

N. B. At least **six** preparations from the following with **percentage yield**:

- P1.** Preparation of potassium trioxalato aluminate (III).
- P2.** Preparation of Tetra ammine copper (II) chloride.
- P3.** Preparation of tris(thiourea) copper (I) sulphate.
- P4.** Preparation of potassium trioxalato ferrate (III).
- P5.** Preparation of chloropenta-ammine cobalt (III) chloride.
- P6.** Preparation of ammonium diamminetetra-thiocyanato chromate (III) (Reineck's salt).
- P7.** Preparation of Potassium hexa nitro cobaltate (III).

P8. Preparation of ammonium trioxalato chromate (III).

P9. Preparation of hexathiourea plumbus (II) nitrate.

A) Percentage Purity

N. B. : Any **two** from the following.

V1. Determination of percentage purity of ferrous ammonium sulphate.

V2. Determination of percentage purity of tetrammine copper (II) sulphate.

V3. Determination of percentage purity of potassium (trioxalato-aluminate) (III).

B) Analysis of Commercial Sample.

N. B. Any **Three** from the following:

V5. Determination of percentage of Calcium in the given sample of milk powder or lime.

V6. Determination of amount of aluminum in the given solution of potash alum.

V7. Determination of titrable acidity in the given sample of milk or lassi.

V8. Determination of percentage purity of boric acid using supplied sodium hydroxide.

(Standard succinic or oxalic acid solution to be prepared to standardise the given sodium hydroxide solution.)

V9. To determine the amount of HCl in given of commercial samples.

C) Ion exchange method.

N. B. Any **two** from the following.

V10. Determination of amount of sodium present in the given solution of common salt using cation exchange resin (By Acid Base titration).

V11. Determination of amount of magnesium in the given solution containing (Mg^{2+} and Zn^{2+}) using anion exchange resin and standard solution of EDTA.

V12. Determination of amount of zinc in the given solution containing (Mg^{2+} and Zn^{2+})
using anion exchange resin and standard solution of EDTA.

Reference Books:

1. A text book of quantitative Inorganic Analysis - A. I. Vogel.
2. Text book of Quantitative Inorganic Analysis - Kolthoff and Sandell.
3. Experimental Inorganic Chemistry - Palmer W. G.
4. Advanced Practical Inorganic Chemistry - Adams and Raynor.
5. Manual in Dairy Chemistry - I.C.A.R. Sub-Committee on Dairy Education.
6. Chemical methods for environmental analysis - R. Ramesh and M. Anbu.

ORGANIC CHEMISTRY

I) Qualitative analysis

Separation of binary mixture and Identification of **one** component. (At least 08 mixtures)

- Nature
- 1) Solid – Solid : 4 mixtures
 - 2) Solid – Liquid : 2 mixtures
 - 3) Liquid – Liquid : 2 mixtures

1) Solid – Solid Mixtures:

One mixture from each the following types should be given:

- i) Acid+Phenol
- ii) Acid + Base
- iii) Acid+Neutral
- iv) Phenol +Base
- v) Phenol+Neutral
- vi) Base +Neutral

2) Solid – Liquid Mixtures

Mixture of type Neutral + Neutral or Acid + Neutral should be given.

3) Liquid – Liquid Mixtures

Mixture of type Neutral + Neutral or Base + Neutral should be

Given. Following compounds should be used for preparation of mixtures

- i) Acids: Benzoic acid, Phthalic acid, Salicylic acid, Cinnamic acid, Aspirin, Oxalic acid.
- ii) Phenols: α -naphthol, β -naphthol.
- iii) Bases: o-nitroaniline, m-nitroaniline, p-nitroaniline, aniline, o-toluidine and N, N-dimethylaniline.
- iv) Neutrals: Anthracene, acetanilide, m-dinitrobenzene, chloroform, carbon tetrachloride, acetone, nitrobenzene, ethyl acetate, ethyl benzoate, bromobenzene, urea and thiourea.

NB :

1. For Solid-Liquid and Liquid-Liquid mixtures avoid detection of type of mixture. Instead the weightage is given to detection of nature and separation of mixture.
2. Separation and qualitative analysis of the binary Mixtures should be carried out on microscale using microscale kits.

II) Quantitative analysis: Organic Estimations:(Any four)

1. Estimation of sucrose
2. Saponification value of oil.
3. To determine the amount of acid and amide present in the given mixture of acid and amide.
4. Determination of Molecular weight of monobasic/dibasic acid by volumetric method.
5. Estimation of unsaturation –to estimate the percentage purity of given olefinic compound by bromination method.

Note: Double burette method should be used for titration.

III) Organic Preparations: (Any four)

1. Multicomponent reaction - Preparation of Dihydropyrimidone.
2. Radical coupling reaction - Preparation of 1,1,2 bis-2naphthol.
3. Base catalyzed Aldol condensation- Preparation of Dibenzal propanone.
4. Diels Alder reaction- Reaction between Furan and Maleic acid
5. Benzil- Benzilic acid rearrangement reaction
6. Oxidation reaction – Preparation of Methyl phenyl sulfone.

IV) Preparation of Derivatives:

1. Picrate derivative (naphthalene and α -naphthol).
2. Iodoform (Acetone).
3. Osazone of Carbohydrates (Glucose).
4. Oxalate derivative (of Urea).
5. Nitrate derivative of Urea
6. 2,4-Dinitro phenyl hydrazone (carbonyl compounds)
7. Oxime derivatives (carbonyl compounds)

Or

Determination of structure of organic compound from given NMR spectra.

Ethanol, Ethyl acetate, Benzyl alcohol, Propanoic acid, Butaraldehyde, Ethyl benzoate, Isopropyl benzene, Propyl ether, n-pentane, Propene, Diethyl amine, 2-chloro butane.

NB: All preparations should be carried out by considering green Chemistry approach

1. Preparation of derivative should be carried out on small scale. The starting compound should not be given more than one gram.
2. Calculation of percentage practical yield in preparation is must.
3. Recrystallization of crude product and its melting point.
4. The product should be confirmed by TLC.
5. Assign reactions with mechanism.

Reference books:

1. Practical Organic Chemistry by – A.I.Vogel.
2. Practical Organic Chemistry by – O. P.Agarwal

PHYSICAL CHEMISTRY

I. Non instrumental Experiments:

A. Any one of the following

i) Partition Law.

To determine the partition coefficient of CH_3COOH between H_2O and CCl_4 .

ii) Viscosity.

To determine the viscosity average molecular weight of a polymer.

iii) Adsorption.

To investigate the adsorption of oxalic acid by activated charcoal and test the validity of Freundlich & Langmuir isotherms.

iv) Solubility.

To study the effect of addition of electrolyte (NaCl or KCl) on the solubility of Benzoic acid at room temperature.

B. Chemical kinetics. (Any four)

1. The study of energy of activation of first order reaction i.e. hydrolysis of methyl acetate in presence of 0.5 N HCl / $0.5 \text{ N H}_2\text{SO}_4$.
2. The study of energy of activation of second order reaction i.e. reaction between $\text{K}_2\text{S}_2\text{O}_8$ and KI (Equal concentrations).
3. The study of energy of activation of second order reaction i.e. reaction between $\text{K}_2\text{S}_2\text{O}_8$ and KI (Unequal concentrations).
4. To study the hydrolysis of methyl acetate by using its two concentrations in presence of 0.5 N HCl and hence find velocity constant of the reaction.
5. To study the effect of addition of electrolyte (KCl) on the reaction between $\text{K}_2\text{S}_2\text{O}_8$ and KI (Equal concentrations).

C. Partial molar volume.

1. To determine the partial molar volume of ethyl alcohol in a mixture of ethyl alcohol and water (Any seven mixtures be given).

II. Instrumental experiments

A. Potentiometry (Any four)

1. Titration of strong acid with strong alkali.

N.B. i) 8 to 10 ml of 1N acid solution to be given by examiner in 100 ml volumetric flask & student should dilute it to 100 ml and 10ml of this solution is taken for titration.

ii) Experiment is carried out by taking pilot run from 1 to 10 ml and then final run taking 0.2 ml reading in the range of end point.

2. Preparation of buffer solution and determination of their pH (Any five buffer solutions), Theoretical calculation of pH values by using Henderson's equation.

3. Determination of standard electrode potential of Zn/Zn^{++} , Cu/Cu^{++} , Ag/Ag^+ (Any two).

4. Estimate the amount of Cl^- , Br^- and I^- in given unknown halide mixture by titrating it against standard $AgNO_3$ solution.

5. Titration of ferrous ammonium sulphate using $K_2Cr_2O_7$ solution and to calculate redox potential of Fe^{++} , Fe^{+++} system.

B. Conductometry (Any three).

N.B. i) 8 to 10 ml of 1N acid solution to be given by examiner in 100 ml volumetric flask & student should dilute it to 100 ml and 10ml of this solution is taken for titration.

1. Titration of a mixture of weak acid and strong acid with strong alkali

2. To study the effect of substituent on dissociation constant of weak acid with respect to acetic acid and monochloroacetic acid (cell constant to be given).

N.B. Calculate K by using formula $K = \frac{\alpha^2 \cdot C}{1 - \alpha}$

3. To determine the velocity constant of hydrolysis of ethyl acetate by NaOH solution by conduct metric method.

4. To determine the normality of citric acid in lemon by titrating it against standard 0.2 N NaOH solution by conduct metric method.

5. To determine λ_∞ of strong electrolyte (NaCl or KCl) and to verify Onsager equation.

C. Refractometry. (Any One)

1. To determine the percentage composition of unknown mixture by (i) graphical method and (ii) by composition law (Densities of pure liquids A & B be given).

2. To determine the molar refractivity of methyl acetate, ethyl acetate, n-hexane and

carbon tetrachloride and calculate the refraction equivalents of C, H and Cl atoms.

D. Colorimetry (Any Two).

1. To verify Lambert – Beer’s law using CuSO_4 solution.
2. To estimate of Fe^{+++} ions by thiocyanate method.
3. To estimate Fe^{+++} ions using salicylic acid by colorimetric titration.
4. To determine the order of reaction for the oxidation of alcohol by potassium dichromate and potassium permanganate in acidic medium colorimetrically.

E. pH – metry (Any One).

1. To determine the dissociation constant of monobasic acid (Acetic acid).
2. To determine the dissociation constant of dibasic acid (Malonic acid).
3. To determine hydrolysis constant of aniline hydrochloride.

Reference Books:

1. Findlay’s Practical Physical Chemistry (Longman)
2. Advanced Practical Physical Chemistry by J. B. Yadav, Goel publishing house.
3. Practical Physical Chemistry by B. D. Khosla, V. C. Garg (R. Chand and Co.)
4. Systematic experimental Physical Chemistry by Rajbhoj, Chandekar (Anjali Publicaiton) Aurangabad.
5. Practical Physical Chemistry: Nandkumari, Kothari and Lavande.
6. Practical Physical Chemistry by Gurtu (S. Chand).
7. Text Book of Qualitative Inorganic Analysis by A. I. Vogel (ELBS Longman).

Nature of Practical Examination

- 1) The practical examination will be of **200** marks.
- 2) The duration of practical examination will be of **three days - six and half hour per day**.
- 3) Questions related to the practical exercise/project report/industrial visit carried out by the student should be asked in viva.
- 4) Use of scientific calculator is allowed.

- 5) S.I. units should be used wherever possible.
 - 6) Use of Chart / Hand book / Text book of practical is allowed.
 - 7) A student is expected to submit a journal certified by the Head of the Department.
 - 8) A student not be permitted to appear at the practical examination unless he/she produces a certified journal. If the journal is lost, the student should produce a certificate from the Head of the Department stating that he/she has satisfactory completed the practical work but his / her journal is lost.
 - 9) Use of Digital / Analytical / Chainometric / Single pan balance is allowed.
 - 10) A student should submit one copy of project at the time of examination.**
- Each examiner should asses the project work for Five marks and sign the same. If any student will not submit project work, he/she will be given Zero mark for the project.**

11) The distribution of marks for practical examination will be as follows:

A) Physical Chemistry 60 marks

- i) Non-instrumental experiment 25 marks
- ii) Instrumental experiment 25 marks
- iii) Viva 05 marks
- iv) Journal 05 marks

B) Inorganic Chemistry 65 marks

- i) Gravimetric analysis 25 marks
- ii) Preparation 15 marks
- iii) Volumetric estimation 15 marks
- iv) Viva 05 marks
- v) Journal 05 marks

C) Organic Chemistry 60 marks

i) Mixture separation and identification of compounds 25 marks

ii) Estimation/Preparation 20 marks

iii) Derivative 05 marks

iv) Viva 05 marks

v) Journal 05 marks

D) Project 15 marks

Total:- 200 marks

B.Sc. Programme structure (CBCS Pattern)

B.Sc. I, B. Sc. II, B. Sc. III Inorganic, Organic, Physical Analytical Chemistry

/ Industrial Chemistry)

B. Sc. I

Semester	Subject	Course Code	Paper No
I	Inorganic Chemistry	DSC-3A	I
	Organic Chemistry	DSC- 4A	II
II	Physical Chemistry	DSC- 3B	III
	Analytical Chemistry	DSC – 4B	IV

B. Sc. II

Semester	Subject	Course Code	Paper No
III	Physical Chemistry	DSC-C3	V
	Industrial Chemistry	DSC- C4	VI
IV	Inorganic Chemistry	DSC- D3	VII
	Organic Chemistry	DSC – D4	VIII

B. Sc III

Semester	Subject	Course Code	Paper No
V	Inorganic Chemistry	DSC-E5	IX
	Organic Chemistry	DSC- E6	X
	Physical Chemistry	DSC- E7	XI
	Analytical Chemistry	DSC – E8	XII
VI	Inorganic Chemistry	DSC-F5	XIII
	Organic Chemistry	DSC- F6	XIV
	Physical Chemistry	DSC- F7	XV
	Industrial Chemistry	DSC – F8	XVI

SHIVAJI UNIVERSITY, KOLHAPUR.



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CHOICE BASED CREDIT SYSTEM

Syllabus For

**B.Sc. Part - I
ZOOLOGY**

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)

B. Sc. Part – I Semester – I
ZOOLOGY
DSC – 15A (ANIMAL DIVERSITY-I)
Theory: 30 hrs. (37.5 lectures of 48 minutes)
Marks-50 (Credits: 02)

Unit 1:

Kingdom Protista (3 hrs.)

General characters and classification up to classes; Locomotory Organelles and locomotion in Protozoa

Phylum Porifera (3 hrs.)

General characters and classification up to classes; Canal System in *Sycon*

Phylum Cnidaria (3 hrs.)

General characters and classification up to classes; Polymorphism in Hydrozoa

Phylum Platyhelminthes (3 hrs.)

General characters and classification up to classes; Life history of *Taenia solium* and its parasitic adaptations

Phylum Nematelminthes (3 hrs.)

General characters and classification up to classes; Life history of *Ascaris lumbricoides* and its parasitic adaptations

Unit 2:

Phylum Annelida (3 hrs.)

General characters and classification up to classes; Metamerism in Annelida

Phylum Arthropoda (5 hrs.)

General characters and classification up to classes; Vision in Arthropoda, Metamorphosis in Insects

Phylum Mollusca (3 hrs.)

General characters and classification up to classes; Torsion in gastropods

Phylum Echinodermata (4 hrs.)

General characters and classification up to classes; Water-vascular system in Asterozoa

B. Sc. Part – I Semester – I
ZOOLOGY
DSC – 16 A (ANIMAL PHYSIOLOGY)
Theory: 30 hrs. (37.5 lectures of 48 minutes)
Marks-50 (Credits: 02)

Unit 1:

Nerve and muscle (9 hrs.)

Structure of a neuron, Resting membrane potential, Origin of Action potential and its propagation in non-myelinated nerve fibers, Ultra-structure of skeletal muscle, Molecular and chemical basis of muscle contraction

Digestion (6 hrs.)

Physiology of digestion in the alimentary canal; Absorption of carbohydrates, proteins, lipids

Unit 2:

Respiration

Pulmonary ventilation, Transport of Oxygen and carbon dioxide in blood (4 hrs.)

Excretion (5 hrs.)

Structure of nephron, Mechanism of Urine formation, Counter-current Mechanism

Cardiovascular system (6 hrs.)

Composition of blood, Structure of Heart, Origin and conduction of the cardiac impulse, Cardiac cycle

Total Periods – 60

Suggested Readings :

Ruppert and Barnes, R.D. (2006). *Invertebrate Zoology*, VIII Edition. Holt Saunders International Edition.

- Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J.I. (2002). *The Invertebrates: A New Synthesis*, III Edition, Blackwell Science
- Young, J. Z. (2004). *The Life of Vertebrates*. III Edition. Oxford university press.
- Pough H. *Vertebrate life*, VIII Edition, Pearson International.
- Hall B.K. and Hallgrímsson B. (2008). *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc.
- Tortora, G.J. and Derrickson, B.H. (2009). *Principles of Anatomy and Physiology*, XII Edition, John Wiley & Sons, Inc.
- Widmaier, E.P., Raff, H. and Strang, K.T. (2008) *Vander's Human Physiology*, XI Edition., McGraw Hill
- Guyton, A.C. and Hall, J.E. (2011). *Textbook of Medical Physiology*, XII Edition, Harcourt Asia Pvt. Ltd/ W.B. Saunders Company

B. Sc. Part – I Semester – II
ZOOLOGY
DSC – 15B (CELLBIOLOGYAND EVOLUTIONARY BIOLOGY)
Theory: 30 hrs. (37.5 lectures of 48 minutes)
Marks -50(Credits: 02)

CELL BIOLOGY & EVOLUTIONARY BIOLOGY

UNIT – 1

Cell structure- (2 hrs.)

Cell theory and diversity in cell size and shape

Structure of nucleus – (2 hrs.)

Nucleus with reference to Nuclear membrane, Nucleoplasm, Chromatin and nucleolus.

Structure of Chromosome - (3 hrs.)

With reference to Morphology and organization (Nucleosome), Polytene Chromosomes

Ultra structure and functions of the following (8 hrs.)

Plasma membrane (Fluid Mosaic Model)

Mitochondria

Endoplasmic reticulum

Golgi complex

Lysosome

Unit 2:

History of Life (2 hrs.)

Major Events in History of Life

Introduction to Evolutionary Theories (5 hrs.)

Lamarckism, Darwinism, Neo-Darwinism

Direct Evidences of Evolution (4 hrs.)

Types of fossils, Incompleteness of fossil record, Dating of fossils

Extinction (4 hrs.)

Mass extinction (Causes, Names of five major extinctions, K-T extinction in detail), Role of extinction in evolution

B. Sc. Part – I Semester – II
ZOOLOGY
DSC – 16B (GENETICS)
Theory: 30 hrs. (37.5 lectures of 48 minutes)
Marks -50(**Credits: 02**)

Unit 1:

Introduction to Genetics (3 hrs.)

Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information

Mendelian and post Mendelian Genetics (8 hrs.)

Principles of Inheritance, Incomplete dominance and co-dominance, gene interaction, Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance.

Linkage, Crossing Over (4 hrs.)

Linkage and process of crossing over, Coupling and repulsion theory, Cytological evidence of crossing over.

Unit 2:

Mutations (6 hrs.)

Chromosomal Mutations: Deletion, Duplication, Inversion, Translocation, Aneuploidy and Polyploidy, induced gene mutation.

Sex Determination (9 hrs.)

Sex Chromosomal theory of sex determination, Genic balance theory, Haploidy Diploidy mechanism, Environmental sex determination, dosage compensation.

Total Periods – 60

Suggested Readings :

- De Robertis EDP and De Robertis EME – Cell and Molecular Biology
- C.B. Powar – Cell Biology, Himalaya Pub. House
- Verma P. S. and Agarwal V. K. – Genetics, S. Chand and Company
- Strickberger – Genetics. C Millian Publications
- Winchester – Genetics, Oxford Publication
- Cell Biology – Dr. N. Arumugam
- Genetics by P.P. Meyyan
- P. S. Varma & V. K. Agarwal – Cell Biology, Genetics, Molecular Biology,

- Evolution and Ecology
- R. P. Meyyan, N, Arumugam – Genetics & Evolution
- P. K. Gupta – Cell and Molecular Biology
- Gardner, E.J., Simmons, M.J., Snustad, D.P. (2008). *Principles of Genetics*. VIII Edition. Wiley India.
- Snustad, D.P., Simmons, M.J. (2009). *Principles of Genetics*. V Edition. John Wiley and Sons Inc.
- Klug, W.S., Cummings, M.R., Spencer, C.A. (2012). *Concepts of Genetics*. X Edition. Benjamin Cummings.
- Russell, P. J. (2009). *Genetics- A Molecular Approach*. III Edition. Benjamin Cummings.
- Griffiths, A.J.F., Wessler, S.R., Lewontin, R.C. and Carroll, S.B. *Introduction to Genetic Analysis*. IX Edition. W. H. Freeman and Co.
- Ridley, M. (2004). *Evolution*. III Edition. Blackwell Publishing
- Barton, N. H., Briggs, D. E. G., Eisen, J. A., Goldstein, D. B. and Patel, N. H. (2007). *Evolution*. Cold Spring, Harbour Laboratory Press.
- Hall, B. K. and Hallgrimsson, B. (2008). *Evolution*. IV Edition. Jones and Bartlett Publishers
- Campbell, N. A. and Reece J. B. (2011). *Biology*. IX Edition, Pearson, Benjamin, Cummings.
- Douglas, J. Futuyma (1997). *Evolutionary Biology*. Sinauer Associates.

B. Sc. Part – I
ZOOLOGY PRACTICALS
Marks -50 (Credits: 02)

DSC– 15A and 16 A : LAB

1. Study of the following specimens:

- i. Study of *Amoeba*, *Euglena*, *Plasmodium*, *Paramecium*, w.r.t. classification and locomotion
- ii. Study of *Sycon*, *Hyalonema*, and *Euplectella*, *Obelia*, *Physalia*, *Aurelia*, *Tubipora*, *Metridium*, *Taenia solium*, Male and female *Ascaris lumbricoides*, *Aphrodite*, *Nereis*, *Pheretima*, *Hirudinaria*, *Palaemon*, *Cancer*, *Limulus*, *Palamnaeus*, *Scolopendra*, *Julus*, *Periplaneta*, *Apis*, *Chiton*, *Dentalium*, *Pila*, *Unio*, *Loligo*, *Sepia*, *Octopus*, *Pentaceros*, *Ophiura*, *Echinus*, *Cucumaria* and *Antedon*, w.r.t. classification and morphological peculiarities.

2. Study of the following :

- i. T.S. and L.S. of *Sycon*,
- ii. Life history *Taeni* and *Ascaris* and their parasitic adaptations.

3. Preparation of hemin and hemochromogen crystals.

4. Study Tour : Visit to Natural History Museum and submission of report.

DSC– 15Band 16B : LAB

5. Identification of ABO and Rh blood groups.

6. Cytological Preparations.:

Mitochondria – Stained preparation of mitochondria from onion peeling / Hydrilla leaf / Oral mucosa by using Janus Green B.

Polytene Chromosome – Stained preparation of Polytene chromosome in chironomous larva/ *Drosophila* larva.

7. Study of fossil evidences from plaster cast models and pictures.

8. Darwin's Finches with diagrams/ cut outs of beaks of different species.

9. Study of Mendelian Inheritance and gene interactions (Non Mendelian Inheritance) using suitable examples. Verify the results using Chi-square test, Study of Linkage, recombination, gene mapping using the data (Minimum 10 Examples on Mono, Dihybrid ratio, Incomplete dominance, Co-dominance, Multiple alleles, Sex linked inheritance, Linkage and Crossing over and Gene interaction).

10. Study of Human Karyotypes.

SUGGESTED READINGS

- Ruppert and Barnes, R.D. (2006). *Invertebrate Zoology*, VIII Edition. Holt Saunders International Edition.
 - Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J.I. (2002). *The Invertebrates: A New Synthesis*, III Edition, Blackwell Science
 - Young, J. Z. (2004). *The Life of Vertebrates*. III Edition. Oxford university press.
 - Pough H. *Vertebrate life*, VIII Edition, Pearson International.
 - Hall B.K. and Hallgrimsson B. (2008). *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc.
- Practical Zoology by Kotpal.
- Practical Zoology by Verma and Agarwal.
- Physiology by C. C. Chattarji. Vol. I & II.

SCHEME OF MARKING (THEORY)

SEM	Core Course	Evaluation	Marks	Total Marks	Answer Books	Standard of passing(Min)
I	DSC - 15A	Semester wise	50	100	As per Instructions	35
	DSC - 16A	Semester wise	50			
II	DSC - 15B	Semester wise	50	100	As per Instructions	35
	DSC - 16B	Semester wise	50			

SCHEME OF MARKING (PRACTICAL)

Practical examination is annul

SEM	Course	Marks	Evaluation	Sections	Standard of passing
I and II	DSC – A(DSC 15A and DSC 16A) Lab and DSC - B (DSC 15B and DSC 16B) Lab	50	Annual	As per Instructions	35%

SHIVAJI UNIVERSITY, KOLHAPUR.



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Revised Syllabus For

Bachelor of Science

Part-II

ZOOLOGY

CBCS PATTERN

Syllabus to be implemented from

June, 2019 onwards.

B. Sc. Part II Semester- III

ZOOLOGY

PAPER-V

DSC- (ANIMAL DIVERSITY-II)

Theory: 30 hrs. (37.5 lectures of 48 minutes)

Marks-50 (Credits: 02)

Unit 1:

Protochordates: (4 hrs.)

General characters and Classification of Protochordata.

Agnatha: (4 hrs.)

General characters of Agnatha and Classification of cyclostomes up to classes.

Pisces: (4 hrs.)

General characters and Classification up to orders; Respiration in Fishes.

Amphibia: (4 hrs.)

General features and Classification up to orders; Parental care.

Unit 2:

Reptiles: (4 hrs.)

General characters and Classification up to orders; Venomous and non-venomous snakes, Biting mechanism in snakes.

Aves: (5 hrs.)

General characters and Classification up to orders; Digestive and Respiratory systems.

Mammals: (5 hrs.)

General characters and Classification up to orders; Circulatory of mammals.

B. Sc. Part II Semester- III

ZOOLOGY

Paper-VI

DSC- (BIOCHEMISTRY)

Theory: 30 hrs. (37.5 lectures of 48 minutes)

Marks-50 (Credits: 02)

Unit 1:

Nucleic acids:

DNA and RNA. (7 hrs.)

Structure and types of RNA .DNA- Secondary structure of Watson and Crick. Forms of DNA

Carbohydrate Metabolism: (8 hrs.)

Glycolysis, Krebs Cycle, Pentose phosphate pathway, Gluconeogenesis, Glycogenolysis.

, Review of electron transport chain.

Unit 2:

Lipid Metabolism: (5 hrs.)

Biosynthesis and β oxidation of fatty acids.

Protein metabolism: (5 hrs.)

Transamination, Deamination and Urea Cycle.

Enzymes: (5 hrs.)

Introduction- classification and nomenclature. Mechanism of action, Enzyme Kinetics,

Inhibition and Regulation. Isoenzymes, Co-enzymes and Co-factors.

B. Sc. Part II Semester- IV

ZOOLOGY

Paper-VII

DSC- (REPRODUCTIVE BIOLOGY)

Theory: 30 hrs. (37.5 lectures of 48 minutes)

Marks-50 (Credits: 02)

Unit 1: Functional anatomy of female reproduction: (15 hrs.)

Outline and histological structure of female reproductive system in rat and human; Ovary: folliculogenesis, ovulation, corpus luteum formation and regression; Steroidogenesis and secretion of ovarian hormones; Reproductive cycles in human and their regulation, changes in the female tract; Ovum transport in the fallopian tubes; Sperm transport in the female tract, fertilization; Hormonal control of implantation; pregnancy diagnosis Hormonal regulation of gestation, , Mechanism of parturition and its hormonal regulation; Lactation and its regulation.

Unit 2:

Functional anatomy of male reproduction: (8 hrs.)

Outline and histology of male reproductive system in human; Testis: Cellular functions, germ cell; Spermatogenesis: hormonal regulation; Epididymal function and sperm maturation; Accessory glands functions; Sperm transportation in male tract.

Unit 3: Reproductive Health: (7 hrs.)

Infertility in male and female: causes, diagnosis and management; Assisted Reproductive Technology: sex selection, sperm banks, frozen embryos, in vitro fertilization, ET, EFT, IUT, ZIFT, GIFT, ICSI, PROST; Modern contraceptive technologies.

B. Sc. Part II Semester- IV

ZOOLOGY

Paper-VIII

DSC- (APPLIED ZOOLOGY-I)

Theory: 30 hrs. (37.5 lectures of 48 minutes)

Marks-50 (Credits: 02)

Unit 1:

Introduction to Host-parasite Relationship: (4 hrs.)

Host, Definitive host, Intermediate host, Parasitism, Symbiosis, Commensalism, Reservoir, Zoonosis.

Unit 2:

Epidemiology of Diseases: (7 hrs.)

Transmission, Prevention and control of diseases: Tuberculosis, Typhoid.

Unit 3:

Rickettsia and Spirochaetes: (6 hrs.)

Brief account of *Rickettsia prowazekii*, *Borrelia recurrentis* and *Treponema pallidum*.

Unit 4:

Insects of Economic Importance: (8 hrs.)

Biology, Control and damage caused by *Helicoverpa armigera*, *Pyrilla perpusilla* and *Papilio demoleus*, *Callosobruchus chinensis*, *Sitophilus oryzae* and *Tribolium castaneum*

Unit 5:

Poultry Farming: (5 hrs.)

Principles of poultry breeding, Management of breeding stock and broilers, Processing and Preservation of eggs.

B. Sc. Part II
ZOOLOGY PRACTICAL-I
Marks-50 (Credits: 02)

PRACTICAL-I (Based on Animal diversity-II and Biochemistry of Semester-III).

Unit: 1

Animal diversity-II:

1. Study of the following specimens with reference to morphological peculiarities and classification upto orders: *Herdmania*, *Branchiostoma*, *Petromyzon*, *Sphyrna*, *Pristis*, *Torpedo*, *Labeo*, *Exocoetus*, *Anguilla*, *Ichthyophis/Ureotyphlus*, *Salamandra*, *Bufo*, *Hyla*, *Chelone*, *Hemidactylus*, *Chamaeleon*, *Draco*, *Crocodylus*, *Gavialis*.
2. Characters identifying venomous and non-venomous snakes: Russell's viper, Saw scaled viper, Common krait, Indian Cobra, Sea snake, Rat snake and Checkered keelback.
3. Study of any six common birds from different orders with the help of photographs and keys.
4. Study of the following specimens with reference to morphological peculiarities and classification up to orders: shrews, Bat, Squirrel and Loris.

An "**animal album**" containing photographs, cut outs, with appropriate write up about the above mentioned taxa. Different taxa/ topics may be given to students for this purpose.
5. Dissection of brain of fowl.
6. Temporary preparation of hyoid apparatus, sclerotic plates, Pecten and Collumella of fowl.
7. Temporary preparation of Cycloid, Ctenoid and Placoid scales in fishes.

Unit: 2

Biochemistry:

1. Qualitative tests to identify functional groups of carbohydrates and lipid in given solutions (Glucose, Fructose, Sucrose, Lactose and Lipid).
2. Estimation of total protein in given solutions by Lowry's method/ Quantitative estimation of amino acids by using Ninhydrin reaction.
3. Study of activity of salivary Amylase under optimum conditions.
4. Effect of Temperature, pH and salinity of activity of salivary amylase.
5. Estimation of total lipids from given sample.
6. DNA isolation from plant/animal.
7. Estimation of uric acid from bird excreta.

B. Sc. Part II
ZOOLOGY PRACTICAL-II
Marks-50 (Credits: 02)

PRACTICAL-II (Based on Reproductive Biology and Applied Zoology of Semester-IV).

Unit: 1

Reproductive Biology:

1. Study of animal house: set up and maintenance of animal house, breeding techniques, care of normal and experimental animals.
2. Examination of vaginal smear rats from live animals/Study of stages of estrus cycle through permanent slides.
3. Surgical techniques: principles of surgery in endocrinology. Ovaryectomy, hysterectomy, castration and vasectomy in rats. Demonstration or film only.
4. Examination of histological sections from photomicrographs/ permanent slides of rat: testis, epididymis and accessory glands of male reproductive systems; Sections of ovary, fallopian tube, uterus (proliferative and secretory stages), cervix and vagina.
5. Human vaginal exfoliate cytology.
6. Sperm count and sperm motility in rat/ Any mammal.
7. Study of modern contraceptive devices by photographs or models.

Unit: 2

Applied Zoology:

1. Study of arthropod vectors associated with human diseases: *Pediculus*, *Culex*, *Anopheles*, *Aedes* and *Xenopsylla*.
2. Study of insect damage to different plant parts/stored grains through damaged products/photographs.
3. Identifying feature and economic importance of *Helicoverpa (Heliothis) armigera*, *Papilio demoleus*, *Pyrilla perpusilla*, *Callosobruchus chinensis*, *Sitophilus oryzae* and *Tribolium castaneum*.
4. Field trip to poultry farm or animal breeding centre or any suitable place to study animal diversity or any place related to theory syllabus. Submission of field trip report (Printed/Hand writings).

Suggested readings for Paper V and VI:

- Berg, J. M., Tymoczko, J. L. and Stryer, L. (2006). Biochemistry. VI Edition. W.H Freeman and Co.
- Guyton, A.C. and Hall, J. E. (2011). Textbook of Medical Physiology, XII Edition, Harcourt Asia Pvt. Ltd/ W.B. Saunders Company
- Hall B. K. and Hallgrímsson, B. (2008). Strickberger's Evolution. IV Edition. Jones and Bartlett Publishers Inc.
- Murray, R.K., Granner, D.K., Mayes, P.A. and Rodwell, V.W. (2009). Harper's Illustrated Biochemistry. XXVIII Edition. Lange Medical Books/Mc Graw3Hill.
- Nelson, D. L., Cox, M. M. and Lehninger, A.L. (2009). Principles of Biochemistry. IV Edition. W.H. Freeman and Co.
- Pough H. (2008). Vertebrate life, 8th Edition, Pearson International.
- Young, J. Z. (2004). The Life of Vertebrates. III Edition. Oxford university press.

Suggested readings for paper VII and VIII:

- Arora, D. R and Arora, B. (2001). Medical Parasitology. II Ed. CBS Pub., and Distributors.
- Atwal, A.S. (1986). Agricultural Pests of India and South East Asia, Kalyani
- Austin, C.R. and Short, R.V. (1982). Reproduction in Mammals. Cambridge University Press, London. Vol. 1.
- Chapman, R. F. (1998). The Insects: Structure and Function. IV Edition, Cambridge University Press, UK.
- Dennis, H. (2009). Agricultural Entomology. Timber Press (OR).
- Degroot, L.J. and Jameson, J.L. (2010). (6 th eds). Endocrinology. W.B. Saunders and Company.
- Dunham R.A. (2004). Aquaculture and Fisheries Biotechnology Genetic Approaches. CABI publications, U.K.
- Hafez, E. S. E. (1962). Reproduction in Farm Animals. Lea & Fabiger Publisher.
- Hatcher, R.A. *et al.* (2001). The Essentials of Contraceptive Technology. Population Information Programme.
- Knobil, *et al.* (2014). (4th eds). The Physiology of Reproduction. Raven Press Ltd.
- Park, K. (2007). Preventive and Social Medicine. XVI Edition. B.B Publishers.
- Pedigo L. P. (2002). Entomology and Pest Management. Prentice Hall Publication.

SHIVAJI UNIVERSITY, KOLHAPUR.



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Revised Syllabus For

B.Sc Part- III

Zoology

Syllabus to be implemented from

June, 2020 onwards.

SHIVAJI UNIVERSITY, KOLHAPUR

Revised Syllabus for Bachelor of Science

B. Sc. III – Zoology –To be implemented from June 2020

GENERAL OBJECTIVES OF THE COURSE

1) Aims:

1. To impart the knowledge of animal science to the pupils.
2. To make the pupils to use the knowledge in their daily life.
3. To make the pupils aware of natural resources and environment.
4. Application of knowledge in Zoology for nutrition, agriculture & live stock.
5. To provide practical experiences which form a part of their learning processes.
6. To develop aptitude for scientific work & ability to pursue studies far beyond graduation.
7. To encourage the pupils to take life science as a carrier which is the need now a days.
8. To make the pupils fit for the society.

2) Objectives –

1. To impart knowledge is the basic aim of education. The students are expected to acquire the knowledge of animal science, natural phenomenon, manipulation of nature & environment by man.
2. Understanding the scientific terms, concepts, facts, phenomenon & their interrelationships.
3. Applications of the knowledge.
4. To develop skills in practical work, experiments & laboratory materials, instruments.
5. To develop interests in the subject & scientific hobbies.
6. To develop scientific attitude which is the major objective? This makes the students open minded, critical observations, curiosity, thinking etc.
7. Abilities to apply scientific methods, collection of scientific data, problem solving, organize science exhibitions, clubs etc.
8. Appreciation of the subject, contributions of scientists, scientific methods, scientific programs etc.

3) DURATION

- The course shall be full time course.
- The duration of course shall be three years.

4) **PATTERN:** Pattern of Examination will be semester for theory and annual for practical with INTERNAL ASSESSMENT (Project/Seminar/Field work for theory) Scheme

5) **MEDIUM OF INSTRUCTION:** The medium of instruction shall be in English.

6) **STRUCTURE OF COURSE:** B.Sc. III – Zoology THEORY – No. of papers: Eight, No of practicals: Four SEMESTER V-Paper IX to XII & SEMESTER VI- Paper XIII to XVI

SEMESTER-V Theory

Sr. No.	Subject	Marks	University	Internal
1	Zoology Paper- IX	50	40	10
2	Zoology Paper- X	50	40	10
3	Zoology Paper- XI	50	40	10
4	Zoology Paper- XII	50	40	10

Total=200

SEMESTER-VI Theory

Sr. No.	Subject	Marks	University	Internal
1	Zoology Paper- XIII	50	40	10
2	Zoology Paper- XIV	50	40	10
3	Zoology Paper- XV	50	40	10
4	Zoology Paper- XVI	50	40	10

Total = 200

PRACTICALS- Annual

09	Practical—V	50
10	Practical – VI	50
11	Practical – VII	50
12	Practical – VIII	50

Total 200

Total = 600

7. SCHEME OF TEACHING AND EXAMINATION (Teaching scheme - Hrs/Week)

No	Sem. - V	Sem. - VI	L	P	Total
1	Paper No IX Paper No. XIII	Paper No IX Paper No. XIII	3		
2	Paper No IX Paper No. XIII	Paper No IX Paper No. XIII	3		
3	Paper No IX Paper No. XIII	Paper No IX Paper No. XIII	3		
4	Paper No IX Paper No. XIII	Paper No IX Paper No. XIII	3		
			12		12
1	Practical V			5	
2	Practical VI			5	
3	Practical VII			5	
4	Practical VIII			5	
				20	20
	Total				32

8) SCHEME OF EXAMINATION

Question paper will be set in the view of the / in accordance with the entire syllabus and preferably covering each unit of syllabi.

9) EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS (FOR REVISED SYLLABUS)

Refer copy of revised syllabus

10) OTHER FEATURES

1. Required Books, Journals stated in each syllabus of Part I, Part II and Part III Zoology and Fisheries.

A) LIBRARY : Reference and Text Books, Journals, and Periodicals, Reference Books for Advanced Studies.

B) SPECIFIC EQUIPMENTS: Necessary to run the Course (T.V., L.C.D., and Overhead Projector), (Computer and necessary software's, operating systems etc.)

C) LABORATORY SAFETY EQUIPMENTS

- Fire Extinguishers at least two sets in each laboratory. (Lab. area 600 sq.ft.)

- Leakage of gases be avoided.
- Primary medical aid box (First Aid Kit)
- Sugar / Glucose – 500 gm pack: Pinch of sugar and a cup of drinking water in hypoglycemic condition. OR In extreme weakness of student or person concerned.
- Rules of animal ethics should be strictly followed.

D) LABORATORY INSTRUCTIONS

- 1) Always wear an apron inside the laboratory. Do not wear it outside.
- 2) Do not drink or eat inside the laboratory.
- 3) Do not place pencil, fingers or any material in the mouth. Moisten labels with water.
- 4) Use microscopes and other instruments carefully.
- 5) Discard all used glassware such as test tube, pipettes, petry-plates, glass slides in receptacle meant for it. a
- 6) Put cotton plugs, papers, matches, waste dissection material etc. in a waste-paper basket. Do not throw them in sink not leave them on desk or floor.
- 7) Regard all cultures as pathogenic. Take every precaution against infection.
- 8) Report all accidents to the instructor immediately.
- 9) Wash hands thoroughly with soap and water before and after dissection and experiment.
- 10) Always turn off water, gas and electricity before leaving the laboratory.
- 11) When students enter in laboratory they should have – A Laboratory Journal, pencil and eraser, foot rule, dissection box with dissecting instruments, a small napkin.
- 12) All drawings must be made with drawing pencil only.
- 13) As the journal is to represent student's bonafide work during the whole year, student should keep it as clean as possible and DO NOT LOOSE IT
- 14) Students should not forget that unless their journals are certified, they are not allowed to appear for the university examination

11) COMMON NATURE OF QUESTION FOR THEORY

PAPER: SEMISTER – V Zoology Paper (IX, X, XI, XII)

SEMISTER – VI Zoology Paper (XIII, XIV, XV, XVI)

Q. 1	Multiple Choice Questions (Eight questions)	08
Q. 2	Long answer questions (Attempt any two out of three)	16
	A.	
	B.	
	C.	
Q. 3	Shorn Notes (Attempt any four out of Six)	16
	a.	
	b.	
	c.	
	d.	
	e.	
	f.	

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Paper- IX

DSE-E29 (COMPARATIVE ANATOMY OF VERTEBRATES)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit 1: Integumentary System	4
1. Generalized structure of integument	
2. Functions of Integument	
3. Soft and Hard epidermal derivatives	
4. Hard epidermal derivatives	
Unit 2: Skeletal System	4
1. Vertebral column	
2. Appendicular skeleton	
Unit 3: Digestive System	4
Brief account of alimentary canal and digestive glands	
Unit 4: Respiratory System	4
Brief account of Gills, lungs, air sacs	
Unit 5: Circulatory System	4
Evolution of heart and aortic arches	
Unit 6: Evolution of Kidney	3
Succession of kidney	
Unit 7: Nervous System	3
Comparative account of brain	
Unit 8: Sense Organs	4
Comparative account of ear and eye of vertebrates	

SUGGESTED READINGS:

1. Kardong, K.V. (2005) Vertebrates' Comparative Anatomy, Function and Evolution. IV Edition. McGraw-Hill Higher Education. Kent, G.C. and Carr R.K. (2000). Comparative Anatomy of the Vertebrates. IX Edition
2. The McGraw-Hill Companies. Hilderbrand, M and Gaslow G.E. Analysis of Vertebrate Structure, John Wiley and Sons Walter, H.E. and Sayles, L.P; Biology of Vertebrates, Khosla Publishing House.

3. Outlines of comparative anatomy, Romer & Parsons, Central Book Depot, The Vertebrate Body (Saunders).
4. Biology of Vertebrates Walter & Sayles; (McMillan).

5. Chordate Zoology, P.S. Dhami & J. K. Dhami - R. Chand & Co., New Delhi.
6. Modern Textbook of Zoology, R. L. Kotpal, Rastogi Publications, Meerut.
7. The Life of Vertebrates, 3rd Edition, 1993, J. Z. Young E. L. B.S. Oxford.
8. Chordate Zoology - E.L. Jordan, S. Chand & Co., New Delhi.
9. The Phylum Chordata - 1987, H.H. Newman, Distributor Satish Book Enterprise, Agra. 8. Comparative Anatomy of the Vertebrates G. C. Kent.

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Syllabus of B.Sc. Part III Zoology

Zoology Paper- X

DSE-F29 (Molecular Cell Biology and Animal Biotechnology)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

- Unit 1: Molecular Biology –** 7
- 1) DNA Replication (Semiconservative mode)
 - 2) DNA Damage and Repair mechanism
 - 3) Regulation of gene expression- Operon concept
 - 4) Genetic Code:
 - i) Properties of Genetic code
 - ii) Codon assignment
 - iii) Wobble hypothesis
- Unit 2: Protein synthesis** 8
- A) Transcription
 - i) Process in prokaryotes and eukaryotes
 - ii) RNA polymerase
 - iii) Post transcriptional modification in RNA
 - B) Translation in prokaryotes and eukaryotes
 - i) Initiation
 - ii) Elongation
 - iii) Termination
- Unit 3 : Molecular Techniques in Gene manipulation** 15
1. Restriction enzymes: Nomenclature, detailed study of Type II.
 2. Characteristics of Cloning vectors: Plasmids, Cosmids, Phagemids, Lambda Bacteriophages
 3. Gene cloning: Transformation techniques by Calcium chloride method and electroporation
 4. Construction of genomic and cDNA libraries
 5. Southern, Northern and Western blotting
 6. DNA sequencing: Sanger method
 7. Polymerase Chain Reaction,
 8. DNA Finger Printing
 9. DNA micro array

SUGGESTED READINGS:

1. Brown, T.A. (1998). Molecular Biology Labfax II: Gene Cloning and DNA Analysis. II Edition, Academic Press, California, USA. Glick, B.R. and Pasternak, J.J. (2009).
2. Molecular Biotechnology - Principles and Applications of Recombinant DNA. IV Edition, ASM press, Washington, USA. Griffiths, A.J.F., J.H. Miller, Suzuki, D.T., Lewontin, R.C. and Gelbart, W.M. (2009).
3. An Introduction to Genetic Analysis. IX Edition. Freeman and Co., N.Y., USA. Snustad, D.P. and Simmons, M.J. (2009).
4. Principles of Genetics. V Edition, John Wiley and Sons Inc. Watson, J.D., Myers, R.M., Caudy, A. and Witkowski, J.K. (2007).
5. Recombinant DNAGenes and Genomes- A Short Course. III Edition, Freeman and Co., N.Y., USA. Beauchamp, T.I. and Childress, J.F. (2008).
6. Principles of Biomedical Ethics. VI Edition, Oxford University Press.
7. Cell and Molecular Biology, 8th Edition, De. Robertis EDP and De Robertis Jr. EMF, Lippincott Williams and Wilkins, Philadelphia.
8. Cell Biology, C.B. Powar, Himalaya Publication House.
9. Cell and Molecular Biology, E.J. Dupraw, Academic Press, New York.
10. Cell Structure and Function - A. G. Loewy, P. Siekevitz, J. R. Meninger & J. A. N. Gallant, Saunder College, Philadelphia.
11. Molecular Biology of the Cell - 3rd Edition, Bruce Alberts, Dennis Bray, Julian Lewis, Martin Raff, K. Roberts & James D. Watson, Garian Publishing, New York.

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Paper- XI

DSE-F30 (Biotechniques and Biostatistics)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit I: Genetically Modified Organisms

9

1. Production of cloned and transgenic animals:
 - a. Nuclear Transplantation
 - b. Retroviral Method
 - c. DNA microinjection
2. Applications of transgenic animals:
 - a. Productions of pharmaceuticals
 - b. Production of donor organs
3. Knockout mice.

Unit II: Culture Techniques and Applications

6

- a. Animal cell culture: Introduction, principle and applications
- b. Stem Cells: Introduction to stem cells
 - i) Potency of stem cells: Totipotency, Pluripotency, Multipotency, Unipotency
 - ii) Sources of stem cells-Embryo, Fetal, Adult, Bone marrow

Unit III: Biostatistics

15

- a. Classification of Biological data
- b. Frequency distribution
- c. Tabulation
- d. Graphical representation of data
- e. Measures of central tendency (Mean, Median, Mode)
- f. Dispersion – Mean, deviation & standard deviation
- g. Correlation – Scattered diagram, Karl Pearson's correlation coefficient and Spearman's rank correlation coefficient.

SUGGESTED READINGS:

1. Brown, T.A. (1998). Molecular Biology Labfax II: Gene Cloning and DNA Analysis. I Edition, Academic Press, California, USA. Glick, B.R. and Pasternak, J.J. (2009). Molecular Biotechnology - Principles and

2. Applications of Recombinant DNA. IV Edition, ASM press, Washington, USA. Griffiths, A.J.F., J.H. Miller, Suzuki, D.T., Lewontin, R.C. and Gelbart, W.M. (2009)
3. An Introduction to Genetic Analysis. IX Edition. Freeman and Co., N.Y., USA. Snustad, D.P. and Simmons, M.J. (2009).
4. Principles of Genetics. V Edition, John Wiley and Sons Inc. Watson, J.D., Myers, R.M., Caudy, A. and Witkowski, J.K. (2007).
5. Recombinant DNA Genes and Genomes- A Short Course. III Edition, Freeman and Co., N.Y., USA. Beauchamp, T.I. and Childress, J.F. (2008).
6. Principles of Biomedical Ethics. VI Edition Oxford University Press.
7. Elements of Biotechnology - P. K. Gupta, Rastogi Publications.
8. Gene V & VI, 1994, Lewin B., Oxford University Press, Oxford.
9. Concept of Genes-Pearson Edition 9. Cell and Molecular Biology

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Paper- XII

DSE-F31 (AQUATIC BIOLOGY)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit 1: Aquatic Biomes **10**

- a. Freshwater ecosystem (lakes, wetlands, streams and rivers),
- b. Estuaries
- c. Intertidal zones
- d. Oceanic pelagic zone
- e. Marine benthic zone
- f. Coral reefs

Unit 2: Freshwater Biology **10**

1. Lakes
 - a. Lake as an Ecosystem
 - b. Lake Morphometry
 - c. Physico-chemical characteristics
 - i. Light
 - ii. Temperature
 - iii. Thermal Stratification
 - iv. Dissolved solids
 - v. Carbonates
 - vi. Bicarbonates
 - vii. Phosphates and Nitrates
 - viii. Turbidity
 - ix. Dissolved gases (Oxygen Carbon dioxide)
 - x. Nutrient Cycle – (Nitrogen, Sulphur and Phosphorus)
2. Streams
 - a. Different stages of stream development
 - b. Physico-chemical Environment
 - c. Adaptation of hill stream fishes

Unit 3: Endocrinology **10**

- a. Study of endocrine glands – Anatomy and histology
- b. Hormones- Nature, role, regulation and disorders with reference to the following
thyroid gland, parathyroid gland, adrenal gland and islets of Langerhans

SUGGESTED READINGS:

1. Anathakrishnan : Bioresources Ecology 3rd Edition
2. Goldman : Limnology, 2nd Edition
3. dum and Barrett : Fundamentals of Ecology, 5th Edition
4. Pawlowski : Physicochemical Methods for Water and Wastewater Treatment, 1st
5. Edition Wetzel : Limnology, 3rd edition
6. Trivedi and Goyal : Chemical and biological methods for water pollution studies
7. Welch : Limnology Vols. I-II
8. Animal Physiology – Nelson (Cambridge)
9. Endocrinology – Hadely
10. General Endocrinology – Bangara and Turner (W.B. Saunders)
11. Reproductive Physiology – Nalbandov A. V.

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Syllabus of B.Sc. Part III Zoology

Zoology Paper- XIII

DSE-E30 (DEVELOPMENTAL BIOLOGY OF VERTEBRATES)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit 1 : Gametogenesis	6
1. Types of Eggs	
2. Fertilization – Types and Process of Fertilization	
3. Types of Cleavages	
Unit 2: Early Development of Frog	6
1. Structure of mature egg and its membranes	
2. Cleavage	
3. Blastula and its fate map	
4. Process of gastrulation	
5. Types of Morphogenic Movements	
6. Fate of three germinal layers	
7. Neurulation	
8. Metamorphosis in frog and its hormonal regulation	
Unit 3: Chick Embryology	15
1. Structure of sperm	
2. Structure of egg and vitellogenesis	
3. Fertilization and cleavage	
4. Blastula and its fate map	
5. Process of gastrulation	
6. Organogenesis	
a. Development of neural tube and brain up to 72 hours of incubation	
b. Development of gut up to 72 hours of incubation	
c. Development of blood and heart up to 72 hours of incubation	
d. Foetal membranes and significance	
Unit 4: Late Embryonic Development	3
1. Implantation of embryo in human being	
2. Placenta – Formation, types and significance	

SUGGESTED READINGS:

1. An Introduction to Embryology 1981, Balinsky B.L., Saunders College, Philadelphia.
2. Developmental Biology; Patterns/Principles/Problems, 1982, Saunders J. W. Collier MacMillan, Publishers, London.
3. Developmental Biology, 1997, 3rd Edition, Gilbert S.F. Saunder Associates Inc. U.S.A.
4. Developmental Biology, 1992 3rd edition, Browder L.W. Erickson C.A. & Williams, R J. Saunders College, Publications, London.
5. A Text Book of Embryology, Dr. Puranik P. G., S. Chand & Co. 6. Developmental Biology, 1984, Browder L.W. , Saunders College Publicaions, U.S.A.
6. Development of Chick embryo, 1972, Lillie. 8. Developmental Biology, 1991, 3rd Edition, Sinaur Associates, Inc. U.S.A. Gilbert, S. F. (2006).
7. Developmental Biology, VIII Edition, Sinauer Associates, Inc., Publishers, Sunderland, Massachusetts, USA. Balinsky, B.I. (2008).
8. An introduction to Embryology, International Thomson ComputerPress. Carlson, Bruce M (1996). Patten's Foundations of Embryology, McGraw Hill, Inc.

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Syllabus of B.Sc. Part III Zoology

Zoology Paper- XIV

DSE-E32 (IMMUNOLOGY)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit 1: Overview of the Immune System	7
1. Introduction to basic concept in immunology	
2. Principles of innate and adaptive immune system	
Unit 2: Cells and Organs of the immune system	8
1. Haematopoeisis	
2. Cells of immune system	
3. Organs (Primary and Secondary lymphoid organs) of the immune system	
4. Immune responses- Humoral and cell mediated	
Unit 3 : Antigens	7
1. Basic properties of antigens	
2. B and T cell epitopes	
Unit 5: Immunoglobulin / Antibodies	8
1. Structure, Classes and Functions of Antibodies	
2. Antigen – Antibody interactions	
3. Hybridoma Technology: Monoclonal Antibodies in diagnosis and therapeutics	

SUGGESTED READINGS:

1. Kindt, T. J., Goldsby, R.A., Osborne, B. A. and Kuby, J (2006). Immunology, VI Edition. W.H. Freeman and Company. David, M., Jonathan, B., David, R. B. and Ivan R. (2006).
2. Immunology, VII Edition, Mosby, Elsevier Publication. Abbas, K. Abul and Lechtman H. Andrew (2003.) Cellular and Molecular
3. Immunology. V Edition. Saunders Publication.

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Syllabus of B.Sc. Part III Zoology

Zoology Paper- XV

DSE-E31 (Applied Zoology - II)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit 1: Apiculture	8
1. Types and casts of honey bee	
2. Honey Comb	
3. Bee Keeping	
a. Artificial models of bee hive – Newton and Langstroth models	
b. Bee keeping Equipments	
c. Extraction of Honey	
4. Medicinal Value of Honey	
Unit 2 : Animal Husbandary	5
1. Indigenous and exotic breeds of cattle	
2. Preservation and artificial insemination in cattle	
3. Induction of early puberty	
4. Synchronization of estrus in cattle	
5. Commercial importance of dairy farming	
Unit 3: Pearl culture	4
1. Species of oyster	
2. Process of Pearl formation: natural and artificial	
3. Maintenance of oysters	
4. Harvesting	
5. Importance of Pearl	
Unit 4: Freshwater prawn culture	3
1. Species of Prawn	
2. Site selection	
3. Farm Construction	
4. Production system: fertilization, Larval Development, Food and feeding	
5. Harvesting	
Unit 5: Fish Technology	5
Genetic improvements in aquaculture industry:	
1. Induced breeding	
2. Transportation of fish seed	
3. Feeding and development	
4. Harvesting and Marketing	

Unit 4 : Goat Farming-

5

1. Breeds
2. Feeding
3. Housing
4. Economic Importance

SUGGESTED READINGS:

1. Mollusca - Hyman.
2. Prawn and Prawn Fishery of India - Kurian.
3. Fish Culture - K. H. Alikuhni.
4. Fish Culture - Lagter.
5. Fishes of India. - Khanna.
6. Hand Book of Animal Husbandary and Dairy - Mudlyer.
7. Bee keeping in India - Sardar Sing.
8. Bee Keeping in India- M. G. Smith.
9. Poultry keeping in India - Naidu P.N.M.
10. Poultry Husbandary - M. A. Jule. 18. Poultry Husbandary - Moorthy.
11. Outlines of Dairy Technology - Sukumar De.
12. Milk and milk products - Clarence Henry Eckles, Willes Barnes Combs, Harold Macy

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Syllabus of B.Sc. Part III Zoology

Zoology Paper- XVI

DSE-F32 (Insect Vectors and Histology)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit I: Dipteran as Disease Vectors 18

1. Dipteran as important insect vectors
 - a. Mosquitoes
 - b. Sand fly
 - c. Houseflies
2. Study of mosquito born diseases –
 - a. Malaria
 - b. Dengue
 - c. Chikungunya
 - d. Viral encephalitis
 - e. Filariasis
3. Control measures of Mosquitoes
4. Study of house fly as important mechanical vector
 - a. Myiasis, Control of house fly

Unit II: Siphonoptera as Disease Vectors 6

1. Fleas a important insect vectors
2. Host-specificity
3. Study of Flea-borne diseases
 - a. Plague
 - b. Typhus fever
4. Control of fleas

Unit III: Histology of mammalian organs 6

Tooth, tongue, Salivary glands, Stomach, Duodenum, Ileum, Liver, Pancreas, Kidney

SUGGESTED READINGS:

1. Imms, A.D. (1977). A General Text Book of Entomology. Chapman & Hall, UK
Chapman, R.F. (1998).
2. The Insects: Structure and Function. IV Edition, Cambridge University Press, UK
Pedigo L.P. (2002).
3. Entomology and Pest Management. Prentice Hall Publication Mathews, G. (2011).
4. Integrated Vector Management: Controlling Vectors of Malaria
5. Insect Vector Borne Diseases. Wiley-Blackwell
6. Textbook of Histology: Bloom W and Fawcett D.W.
7. Histology: Lippincott. Ham, A.W.
8. Histology: Greep, R.O and well, L.
9. An Atlas of Histology. Heinemann Educational Book Ltd. London and ELBS: Freeman.
W.H. and Bracegirdle, B.
10. Microscopic Anatomy of vertebrates, Lea and Febigen. Philadelphia: Kendall, J.I.
11. Histology of Mammals: Athavale, M.V and Latey, A. N.

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Practical – I (Credits-02)

Comparative anatomy and developmental biology of vertebrates

I. Comparative Study of following

1. V.S. of skin of vertebrates
2. Digestive system of vertebrates
3. Respiratory system of vertebrates
4. Heart of vertebrates
5. Brain of vertebrates
6. Osteology
 - a) The skeleton of fowl (Disarticulated)
 - b) The skeleton of rabbit (Disarticulated)
 - c) Mammalian skull's – (any one herbivorous and one carnivorous animal)

II. Study of developmental stages of frog.

1. Cleavage
2. Blastulation
3. Gastrulation
4. Neurulation
5. Stages of metamorphosis in frog
 - a. External gill stage
 - b. Internal gill stage
 - c. Forelimb stage
 - d. Hind limb stage
 - e. Tail bud stage
 - f. Juvenile stage

III. Study of Chick Embryo

12. Whole mount of chick embryo – 18, 24, 33, 48 and 72 hours.
13. T.S. of chick embryo – 18, 24, 33, 48 and 72 hours.

VI. Preparation of whole mount chick embryo.

IV. Study of Histological structures of placenta (permanent slide or microphotographs)

- 1) Epitheliochorial
- 2) Endotheliochorial
- 3) Hemochorial
- 4) Syndesmochorial
- 5) Hemoendothelial

V. Examination of Gametes – Frog or Rat sperm & ovum through slides or microphotographs.

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Syllabus of B.Sc. Part III Zoology

Zoology Practical – II (Credits-02)

Applied Zoology – II and Immunology

Unit 1: Applied Zoology

1. Apiculture

- a. Casts of Honey Bees
- b. Bee Hive(Photographs or models)
- c. Pollen Basket
- d. Sting Apparatus
- e. Honey
- f. Newton's model of Bee Hive (Photographs or models)
- g. Bee keeping Equipments (Photographs or models)

2. Preservation & Artificial insemination in cattles

8. Pearl culture

- a. Species of oyster
- b. Process of Pearl formation: natural and artificial
- c. Importance of Pearl

9. Freshwater prawn culture

- a. Species of Prawn
- b. Site selection
- c. Farm Construction
- d. Production system
- e. Harvesting

10. Goat farming

- a. Breeds (any four = 2 Indigenous and 2 Exotic)
- b. Housing
- c. Feeding

6. Visit to goat farm or animal breeding centre – submission of visit report

B] Immunology

1. Study of lymphoid organ's (Photograph, Models, Videos)
2. Histological study of (slides or photographs)
 - a. Spleen
 - b. Thymus
 - c. Lymph nodes
3. Preparation of stained blood smears to study various types of blood cells
4. Determination of ABO blood groups
5. Demonstration of
 - a. ELISA
 - b. Immuno-electrophoresis

C] Cell counting and viability test from splenocytes of farm breed animals / cell lines

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Syllabus of B.Sc. Part III Zoology

Zoology Practical – III (Credits-02)

Molecular biology, Animal biotechnology, Biostatistics & Biotechniques

I] Microtechnique

1. Preparation of permanent histological slides by HE technique
2. Histochemical technique
 - a. AB PH 1 technique
 - b. AB PH 2.5 technique
 - c. PAS technique

II] Biotechniques

1. Chromatography – Separation of amino acid by paper chromatography
2. DNA isolation
3. Demonstration of DNA by feulgan technique
4. To study the following technique (photographs)
 - a) Southern blotting
 - b) Northern blotting
 - c) Western blotting
 - d) DNA sequencing (Sangers method)
 - e) PCR
 - f) DNA fingerprinting

III) Biostatistics

Any 10 example based on theory

- IV] Project** (any suitable work possible in local area or from the syllabus) Report of the same to be submitted at the time of practical examination

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Syllabus of B.Sc. Part III Zoology

Zoology Practical – IV (Credits-02)

Aquatic biology, insect vector & diseases

A] Aquatic biology

1. Determination of area of a lake using graphimetric & gravimetric method
2. Identify the zooplanktons present in lake ecosystem
3. Determination of turbidity or transparency from nearby lake or water body
4. Determination of dissolved oxygen
5. Determination of free CO₂
6. Determination of alkalinity (Carbonates & bicarbonates) from water collected from nearby lake or water body
7. Estimation of total hardness of water
8. Instruments used in limnology & their significance
 - a) Secchi disc
 - b) Van Dorn bottle
 - c) Conductivity meter
 - d) Turbidity meter
 - e) PONAR grab sampler
9. Visit to seashore/water reservoir/animal sanctuary to study animal diversity. Report of tour should be submitted at the time of practical examination
10. Endocrine glands (Anatomy and Histology) – Thyroid, Parathyroid, Adrenal and Pancreas.

B] Insect Vectors & diseases

10. Study of different kinds of mouthparts of insects
 - a) Chewing & biting
 - b) Chewing & lapping
 - c) Piercing & sucking
 - d) Sponging
 - e) Siphoning
11. Study of following insect vectors through permanent slides or photograph
 - a) Insect vector – Mosquito, sandfly & housefly
 - b) Study of mosquito born diseases – Malaria, dengue, chikungunya, encephalitis, filariasis
 - c) Study of sandfly born diseases – Visceral leishmanians, Cutaneous leishmanians, Phlebotomus fever
 - d) Study of housefly born diseases – Myiasis
 - e) Study of flea born diseases – Plague, typhus
12. Histology of Following mammalian organs-
 - a) Tooth (V.S.)
 - b) Tongue
 - c) Salivary gland
 - d) Stomach
 - e) Duodenum
 - f) Ileum
 - g) Liver
 - h) Pancreas
 - i) Kidneys

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part - I

Botany

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)

B.Sc.Part I : Subject: Botany

SEMESTER –I

Botany Paper I: DSC- 13 A: BIODIVERSITY OF MICROBES, ALGAE AND FUNGI

CREDITS: 2, LECTURE PERIODS: 2.5 PER WEEK- LECTURE HOURS: 2 PER WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1.	MICROBES		
1.	1.a	VIRUSES	
1.	VIRUSES	Discovery, general characters and structure of viruses Types of viruses- DNA virus- T-phage, RNA virus –TMV, Economic importance of viruses.	06
1.	1. b	BACTERIA	
1.	BACTERIA	Discovery, General characters, Cell structure, Types Modes of reproduction – Vegetative, Asexual, Sexual- Conjugation Economic Importance.	06
2.	ALGAE & FUNGI		
	2.a	ALGAE	
	ALGAE	General characters, Classification- as per G.M.Smith up to Classes. General characters of each class with suitable example. Economic importance of algae. Morphology and Life Cycles (excluding developmental stages) of following types- a. Cyanophyceae: <i>Nostoc</i> b. Chlorophyceae: <i>Spirogyra</i>	09
2.	2.b	FUNGI	
	FUNGI	General Characters, Classification as per Ainsworth – up to classes. General characters of each division with suitable examples Economic Importance. Morphology and life cycle (excluding developmental stages) of following types. a. Zygomycotina: <i>Mucor</i> b. Ascomycotina: <i>Penicillium</i>	09
		Total	30


HEAD
 Department of Botany
 P.V.P. Mahavidyalaya
 Kavathe Mahankal

SHIVAJI UNIVERSITY, KOLHAPUR
 Choice Based Credit System (CBCS)
 Syllabus with effect from 2018
 B.Sc.Part I : Subject: Botany
 SEMESTER –I

Botany Paper II: DSC- 14 A: BIODIVERSITY OF ARCHEGONIATE- Bryophytes, Pteridophytes, Gymnosperms

CREDITS: 2, LECTURE PERIODS: 2.5 PER WEEK- LECTURE HOURS: 2 PER WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1.		BRYOPHYTES	
1.	1.a	General characters, Adaptation to land habit, Classification –as per G.M.Smith up to order, Alternation of Generation. Economic Importance. Morphology, anatomy and life cycle (excluding developmental stages) of following type. Hepaticopsida: <i>Riccia</i> Bryopsida- <i>Funaria</i>	08
		PTERIDOPHYTES	
1.	1.b	General characters, Classification as per G. M. Smith up to order. Morphology and anatomy, Life Cycles (Excluding developmental stages) of following types. a. Lycopsida- <i>Selaginella</i> b. Pteropsida - <i>Pteris</i> Heterospory and seed habitat	11
2.		GYMNOSPERMS	
	2.a	General characters, Classification as per Sporne-1965, up to Classes. General characters of class with suitable example. Economic importance of gymnosperms.	07
2.	2.b	Morphology and anatomy, Life Cycle (Excluding developmental stages) of following type Gnetopsida- <i>Gnetum</i>	04
		Total	30


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SHIVAJI UNIVERSITY, KOLHAPUR
Choice Based Credit System (CBCS)
Syllabus with effect from 2017
B.Sc.Part I : Subject: Botany
SEMESTER –II

Botany Paper III: DSC- 13 B: PLANT ECOLOGY

CREDITS: 2, LECTURE PERIODS: 2.5 PER WEEK- LECTURE HOURS: 2 PER WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1.	1.a	ECOLOGICAL FACTORS AND ADAPTATIONS	
1.	1.a	INTRODUCTION, DEFINITION AND SCOPE OF ECOLOGY	01
1.		ECOLOGICAL FACTORS: Edaphic factors: Soil- Origin and formation, Composition, soil profile. Water- States of water in environment. Climatic factors: Light and Temperature as ecological factors, Optimum and limiting factors. Ecological Adaptations: Ecological adaptations in, Hydrophytes, Xerophytes, Epiphytes and parasites.	07
1.		PLANT COMMUNITIES AND SUCCESSION	
	1.b.	Plant communities: Introduction, general Characters, forms and structure, Raunkier's life forms. Plant Succession : Characters and Process and types – Hydrosere, Xerosere.	07
2.		Ecosystem and Phyto-geography	
	2.a	Ecosystem: Introduction, Composition- Abiotic and Biotic components, Types of ecosystems – Aquatic and Terrestrial (one example of each type). Food chain and web. Ecological pyramids- Number, Biomass and Energy with suitable example.	10
	2.b	Biogeochemical cycles- Introduction, Phosphorus and Nitrogen cycle. Phytogeographical regions as per Chatterji and Mani	05
		Total	30


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Syllabus with effect from 2017

B.Sc.Part I : Subject: Botany

SEMESTER –II

Botany Paper IV: DSC- 14 B: PLANT TAXONOMY

CREDITS: 2, LECTURE PERIODS: 2.5 PER WEEK- LECTURE HOURS: 2 PER WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1.		INTRODUCTORY TAXONOMY, ICBN, BOTANICAL GARDENS	
1.	1.a	Introduction, Importance of Taxonomy. Functions of taxonomy: Identification, Nomenclature, Binomial Nomenclature, Classification. Salient features of International Code of Botanical Nomenclature (ICBN).	08
1.	1.b	Herbarium- Introduction, Role and significance. Botanical Gardens: Introduction, Role and Significance. Study of Sir J.C. Bose Botanical Garden, Calcutta. Lead Botanical Garden, Shivaji University, Kolhapur.	07
2.		ANGIOSPERMS AND SYSTEMS OF CLASSIFICATION	
	2.a	Classification of angiosperms.	
		Salient features of Angiosperms. Types of classification: Natural, Artificial, Phylogenetic. Bentham and Hooker's System of classification.	06
2.	2.b	Study of Angiosperm families:	
	2.b	Morphological, floral and distinguishing characters of following families with examples of plants of economic importance. 1. Caesalpinaceae. 2. Solanaceae. 3. Nyctaginaceae. 4. Liliaceae.	09
		Total	30


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SHIVAJI UNIVERSITY, KOLHAPUR
B.Sc. I. Botany
Practical Based on Paper I and Paper II

Practicals-

1. Study of Forms of bacteria
2. Study of *Nostoc*
3. Study of *Spirogyra*
4. Study of *Mucor*
5. Study of *Penicillium*
6. Study of *Riccia*
7. Study of *Funaria*
8. Study of *Selaginella*
9. Study of *Pteris*
10. Study of *Gnetum*
11. Study of Meteorological Instruments
12. Study of Water Holding Capacity of different soils
13. Determination of soil and water pH by Universal Indicator/ pH paper/ pH meter
14. Study of morphological and anatomical adaptations in hydrophytes- *Hydrilla*, *Eichhornia*.
15. Study of morphological and anatomical adaptations in Xerophytes- *Aloe*, *Nerium*.
16. Study of morphological and anatomical adaptations in Epiphytes (Orchid) and Parasites, *Cuscuta*.
17. Study of Ecological pyramids based on the field data / given data.
18. Study of Phytogeographical regions of India using standard Maps
19. Study of flowering twig morphology - Vegetative characters
20. Study of flowering twig morphology - Floral -/reproductive characters
21. Study of primitive and advanced characters in flowers with suitable specimen.
- 22-25 . Study of Vegetative and Floral characters of following plant families,
 - Family Caesalpiniaceae
 - Family Solanaceae
 - Family Nyctaginaceae
 - family Liliaceae.



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**Revised Syllabus For
Bachelor of Science**

**Part-II
Botany
CBCS PATTERN**

**Syllabus to be implemented from
June, 2019 onwards.**

SEMESTER- III
Botany Paper V: DSC C13: EMBRYOLOGY OF ANGIOSPERMS
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK- LECTURE HOURS: 2.4 PER
WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1	STRUCTURAL ORGANIZATION OF FLOWER, POLLINATION AND FERTILIZATION		22
TAP	1.a: Organization of flower	1.1: Concept of flower as a modified Shoot, structure of typical flower. 1.2: Structure of typical androecium, Structure of tetrasporangiate anther and pollen grain. 1.3: Structure of typical gynoecium: Structure of a typical ovule, Types of ovules.	10
TAP	1.b: Pollination and Fertilization	1.4: Definition, Types and mechanism in Anemophily (<i>Zea mays</i>), Entomophily (<i>Calotropis</i>) and Hydrophily (<i>Vallisneria</i>) 1.5: Microsporogenesis, pollen germination and male gametophyte 1.6: Megasporogenesis, structure of embryo sac: Monosporic (<i>Polygonum</i>) and Bisporic (<i>Allium</i>), female gametophyte. 1.7: Fertilization: Entry of pollen tube, double fertilization and triple fusion. Significance of double fertilization.	12
2	Embryo and Endosperm Development; Polyembryony and Apomixis		23
SMS	2.a: Embryo and Endosperm Development	2.1: Structure and development of embryo in Monocotyledons. 2.2: Structure and development of embryo in Dicotyledons. 2.3 Development of endosperm, Types of endosperm- Nuclear, Helobial and Cellular	12
SMS	2.b: Polyembryony and Apomixis	2.4: Polyembryony: Introduction, Types of polyembryony- True polyembryony (Cleavage and Adventive), False polyembryony. Causes of polyembryony, Significance of polyembryony. 2.5: Apomixis: Introduction, Causes of apomixes and Types: Gametophytic and Sporophytic, Significance of apomixis.	11
TOTAL			45

SEMESTER- III
Botany Paper VI: DSC C14: PLANT PHYSIOLOGY
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK- LECTURE HOURS: 2.4 PER
WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1	PLANT WATER RELATIONSHIP AND MINERAL NUTRITION		22
ASK	1.a: Plant water relationship	1.1: Introduction, Physiological importance of water. 1.2: Water transport process: Mechanism of water absorption: active and passive absorption theories, water transport through xylem and tracheids. 1.3: Transpiration: Definition, Types of transpiration, Mechanism of stomatal movement, Starch-sugar hypothesis, Factors affecting transpiration, Significance of transpiration.	12
ASK	1.b: Mineral nutrition	1.4: Introduction, Macro and Micronutrients 1.5: Criteria of essentiality 1.6: Mineral nutrient uptake- Passive uptake (Diffusion), Active uptake (Carrier Concept) 1.7: Role and Deficiency Disorders of Macronutrients (P, K, Ca, Mg) and Micronutrients (Fe, Mn) in plants and its recovery.	10
2	PHOTOSYNTHESIS, GROWTH AND DEVELOPMENT		23
BTJ	2.a: Photosynthesis	2.1: Introduction 2.2: Photosynthetic pigments- (Chlorophylls, Carotenoids and Phycobilins) 2.3: Mechanism of Photosynthesis: a) Light reaction- Photolysis of water, Photosystem I and Photosystem II, Electron transport and Photophosphorylation- Cyclic and Non-cyclic. b) Dark reaction: C ₃ , C ₄ and CAM pathways of carbon fixation. 2.4: Significance of photosynthesis	11
SBP	2.b: Growth and Development	2.5: Definition, Region of growth, Phases of growth, growth curve, Grand period of growth. 2.6: Plant growth regulators: Discovery, site of synthesis, Physiological (Practical applications) roles of growth regulators –	12

SBP	2.7	Auxins, Gibberellins and Abscisic acid.	
	2.8	2.8: Plant responses to light and temperature – a) Photoperiodism: Concept, Definition, Photoperiodic classification of plants- LDP, SDP, DNP. b) Mechanism of photoperiodism: Photoperiodic induction, perception of stimulus, role of Phytochrome, flowering hormone-Floregin concept, significance of photoperiodism. 2.9: Vernalization: Concept, mechanism, site of vernalization and its significance.	
	TOTAL		45



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SEMESTER- IV
Botany Paper VII: DSC D13: PLANT ANATOMY
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK- LECTURE HOURS:
2.4 PER WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1	ORGANIZATION OF HIGHER PLANT BODY AND TISSUES		22
TAP	1.a: Organization of higher plant body	1.1: The Plant organs 1.2: Development of plant body 1.3: Internal organization	10
RVC	1.b: Meristematic and Permanent Tissue	1.4: Meristem: a) Introduction, Characteristics and Classification of meristems based on position b) Theories of structural development- i) Apical cell theory ii) Histogen theory iii) Tunica Corpus theory. 1.5: Permanent tissue: i) Simple tissue- Parenchyma, Collenchyma and Sclerenchyma ii) Complex tissue: Xylem and Phloem 1.6: Types of Vascular bundles	12
2	PRIMARY AND SECONDARY STRUCTURE OF PLANT BODY AND TISSUE SYSTEMS		23
BTJ	2.a: Primary and secondary structure of plant body	2.1: Primary structure of Monocotyledon and Dicotyledon root, stem and leaf. 2.2: Normal secondary growth in Dicotyledon :root and stem. 2.3: Anomalous secondary growth in <i>Bignonia</i> (Dicot.) and <i>Dracaena</i> (Monocot.) stem. 2.4 : Periderm and Lenticel	12
	2.b: Tissue systems	2.5 : Epidermal tissue system 2.6: Secretory tissue system 2.7: Mechanical tissue system	11
	TOTAL		45

SEMESTER- IV
Botany Paper VIII: DSC D14: PLANT METABOLISM
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK- LECTURE HOURS:
2.4 PER WEEK, MARKS: 50

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1	ENZYMES AND NITROGEN METABOLISM		22
	1.a: Enzymes	1.1 : Introduction 1.2 : Classification and Nomenclature of enzymes 1.3 : Structure and properties of enzymes 1.4 : Mechanism of enzyme action- Lock and Key hypothesis and Induced fit hypothesis. 1.5: Factors affecting enzyme activity- temperature and pH. 1.6: Enzyme inhibition	12
	1.b: Nitrogen Metabolism	1.7: Introduction 1.8: Biological Nitrogen Fixation- Asymbiotic and Symbiotic 1.9: Mechanism of Nitrogen Fixation 1.10: Nitrate reduction 1.11: Ammonia assimilation 1.12: nif genes	10
2	RESPIRATION, SEED DORMANCY AND GERMINATION		23
	2.a: Respiration	2.1: Introduction 2.2: Types of respiration 2.3: Glycolysis 2.4: Formation of Acetyl Co A 2.5: TCA cycle 2.6: ETS in mitochondria 2.7: Fermentation	12
	2.b: Seed Dormancy and Germination	2.8: Concept of dormancy 2.9: Causes of dormancy 2.10: Methods of breaking of seed dormancy. 2.11: Seed germination- Introduction and types (Epigeal, Hypogeal and Viviparous). 2.12: Factors affecting seed germination 2.13: Biochemical changes during seed germination.	11
	TOTAL		45


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SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

Bachelor of Science (B.Sc.) Part III

Botany

CBCS PATTERN

Syllabus to be implemented from

June, 2020 onwards

Paper -IX, X, XI, XII - (Semester- V)

and

Paper -XIII, XIV, XV, XVI - (Semester-VI)

SEMESTER V
B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- IX DSE –E25
Genetics and Plant Breeding

Unit 1: Mendelism:

10

- 1.1 Introduction, Definition and Basic terminologies in genetics.
- 1.2 Principles of inheritance a) Law of Dominance b) Law of Segregation c) Law of independent assortment.
- 1.3 Gene Interaction-a) Complementary gene interaction b) Supplementary gene interaction.

Unit 2 : Linkage and Recombination

10

- 2.1 Linkage: Definition, Linkage group, Types, Coupling and Repulsion phase, Significance.
- 2.2 Recombination (Crossing over): Definition, Types , Mechanism of crossing over, Significance
- 2.3 Mutation – Definition, Spontaneous and Induced mutation. Types of mutagen Physical and Chemical, Significance.

Unit 3: Chromosomes structure and Variation

3.1 Chromosome structure - Introduction, types (based on position of centromere) 13

3.2 Multiple allelism: Introduction, Definition, Self-incompatibility in plants

- 3.3 Quantitative inheritance: a) Polygene inheritance- Concept, examples- Kernel colour in wheat,
b) Population genetics- Hardy-Weinberg's law.

3.4 Maternal inheritance- Mendelian versus cytoplasmic inheritance, Plastid inheritance in *Mirabilis jalappa*.

3.5 Alternation in genetic make-up and its significance-

- a) Change in chromosome structure- Deletion, Duplication, Inversion and Translocation.
- b) Change in chromosome number- Euploidy and Aneuploidy.

Unit 4: Plant Breeding

12

4.1 Introduction, Definition of plant breeding.

4.2 Aims and objectives of plant breeding

4.3 Methods of plant breeding-

- a) Introduction and acclimatization
- b) Selection- i) Mass selection ii) Pure line selection iii) Clonal selection
- c) Hybridization techniques in self and cross pollinated crops.
- d) Male sterility and its significance
- e) Mutation breeding- Gamma garden.

B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- XDSE -E26
Microbiology, Plant Pathology and Mushroom Culture Technology

Unit 1: Microbiology

10

- 1.1 Micro organisms in biological world, characteristic features of different groups:
Phytoplasma and Actinomycetes
- 1.2 Methods in Microbiology: Staining for microbes: Bacteria, Sterilization Methods, Culture Media, Pure Culture Techniques
- 1.3 Recombination in Bacteria: Transformation and Transduction

Unit 2: Industrial Microbiology

10

- 2.1 Applications of micro-organisms with reference to Synthesis of
Antibiotics (Penicillin), Organic Acids (Lactic Acid), Alcohol (Ethyl Alcohol)
- 2.2 Bio-pesticides- Concept, Types and Significance

Unit 3: Plant Pathology

15

- 3.1 Classification of Plant Diseases: on the basis of Pathogens and Symptoms
- 3.2 Transmission of Pathogen- Air borne, Seed borne and Soil borne
- 3.3 Prevention and Control: Physical, Chemical and Biological Control, Role of Quarantine
- 3.4 Study of Plant Diseases-
- i) Grassy Shoot of Sugarcane (Phytoplasma),
 - ii) Citrus Canker (Bacterial),
 - iii) Yellow Vein Mosaic of Bhendi (Viral),
 - iv) White Rust of Crucifers and Tikka Disease of ground nut (Fungal)

Unit 4: Mushroom Technology

10

- 4.1. History, Types of Mushrooms: Edible (Non poisonous) and inedible (Poisonous).
- 4.2 Cultivation Technology:
Pure culture: Medium, Sterilization, Preparation of spawn, Multiplication, Mushroom bed preparation, factors affecting the mushroom bed preparation and composting technology in mushroom production.
- 4.3 Storage: Short Term (Refrigeration), Long Term Storage (Canning, Pickles, Papads), Drying in Salt Solutions
- 4.4 Values of Mushroom: Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.

Shivaji University, Kolhapur. B.Sc. III Botany CBCS Syllabus implemented from June 2020

Page 8

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Department of Botany
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Kavathe Mahankal

B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK , MARKS: 40+10
Paper- XI DSE –E27
Cytology and Research Techniques in Biology

Unit 1: Cell as a unit of life

10

- 1.1 Introduction, The Cell Theory, Prokaryotic and Eukaryotic cells,
- X 1.2 Cell cycle and Apoptosis.
- 1.3 Cell division: Mitosis and Meiosis with their significance.

Unit 2: Cell Organelles

12

- 2.1 Nucleus: Ultra structure, Nuclear envelope, Nuclear pore complex, DNA packaging in Eukaryotes.
- 2.2 Mitochondria: Ultrastructure, semiautonomous body and Role.
- X 2.3 Chloroplasts: Ultrastructure, semiautonomous body and Role.
- 2.4 Ribosomes: Structure and Functions of Prokaryotic and Eukaryotic ribosome.

Unit 3: Sub Cellular Structures and Cell Membrane

10

- 3.1. ER, Golgi body and Lysosomes: Structure and Role,
- 3.2 Peroxisomes and Glyoxysomes: Structure and Role.
- 3.3 Cell membrane: Structure, Fluid Mosaic Model, Role.
- X 3.4 Types of membranes as per permeability.

Unit 4: Research Techniques in Biology

13

- 4.1 Principles of microscopy, Light, Fluorescence and Electron microscopy (EM)- Scanning EM.
- 4.2 Colorimetry, Spectrophotometry, Micrometry, Photomicrography,
- X 4.3 Intellectual property right (IPR) – Concept and Importance.
- 4.4 Patents – Objectives, Procedure and Working

B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- XII DSE-E28
Horticulture and Gardening

Unit 1: Importance and divisions of Horticulture 5

1.1: Introduction and importance of horticulture

1.2: Divisions of Horticulture – Pomology, Olericulture, Floriculture, Landscape gardening

Unit 2: Horticultural Produce and Management of Pest and diseases 10

2.1: Floriculture: a) Introduction, Cultivation of important cut flowers and management of important pests and diseases: Rose, Gerbera and Marigold.

b) Flower arrangements, Packing and Marketing of cut flowers.

2.2: Fruit preservation technology:

a) Physical - Drying, freezing, heat,

b) Chemical - sugar, salt, chemical preservatives.

Unit 3: Nursery 15

3.1: Definition, objectives and scope, Infrastructure for nursery

3.2: Propagation Practices: Sexual and Asexual

a) Sexual: Seed: Sowing of seed, Transplanting of seedling, Advantages and Disadvantages.

b) Vegetative: i) Cutting – Definition, Stem cutting (Hard wood stem and soft wood stem), Use of PGR's for rooting

ii) Layering – Definition, Simple layering, Air layering

iii) Grafting – Definition, Whip grafting, Approach grafting

iv) Budding: Definition, T-budding, Patch budding

c) By specialized vegetative structure – Bulbs, Corms, Tubers, Rhizomes

Unit 4: Landscape Gardening 15

4.1 Definition, scope and objectives

4.2 Indoor Garden – Indoor plants, bottle garden, dish garden, hanging basket, Bonsai, Vertical Garden

4.3 Outdoor Garden – Lawns, Preparation of lawn, lawn types, Rockery, Terrace garden, Water garden, green house and polyhouse

4.4 Important aesthetic Gardens of India: i) Mughal garden, Delhi

ii) Brindavan garden, Mysore.

SEMESTER- VI
B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- XIII DSE -F25
Plant Biochemistry and Molecular Biology

Unit 1: Carbohydrates

12

- 1.1 Introduction and Classification of carbohydrates.
- 1.2 Structure and Properties of- a) Monosaccharides (Pentose: Ribose, Hexose: Glucose),
b) Oligosaccharides (Sucrose), c) Polysaccharides (starch).
- 1.3 Isomerism: Types of Isomers (Structural and Stereoisomer)
- 1.4 Significance of carbohydrates

Unit 2 : Lipids

12

- 2.1 Introduction, General Structure, properties and classification of Lipids
- 2.2 Structure and properties of Saturated Fatty Acids (Stearic and Palmitic acid) and Unsaturated Fatty Acids (Oleic acid, Linoleic and)
- 2.3 Significance of Lipids

Unit 3: Proteins

11

- 3.1. Introduction, Structure, Properties, Characteristics and classification of Amino acids
- 3.2. Brief Outline of biosynthesis of Amino acid: Proline
- 3.3. General Structure, Classification of Protein
- 3.4. Protein Biosynthesis in Eukaryotes: Transcription and translation

Unit 4: Nucleic Acids

10

- 4.1. Introduction, Composition and Structure
- 4.2 DNA: Watson and Crick Model, Forms of DNA (A, B and Z)
- 4.3 DNA Replication in Eukaryotes
- 4.4 RNA: Types, structure and role of RNA's
- 4.5 Regulation of Gene expression- Lac Operon, Tryptophan Operon

B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- XIV DSE -F26
Bioinformatics, Biostatistics and Economic Botany

Unit 1: Bioinformatics

14

- 1.1 Introduction, Aim, Scope and Branches of Bioinformatics
- 1.2 Biological Databases: Classification Format and Retrieval system of Biological Database, National Center for Biotechnological Information (NCBI), Basic Local Alignment Search Tool (BLAST)
- 1.3 Protein Information Resource (PIR) - Concept, Resources, Databases and Data Retrieval
- 1.5 Applications of Bioinformatics- Molecular Phylogeny (Concept, Methods, Analysis and Consistency)

Unit 2: Biostatistics

11

- 2.1 Introduction, definition, terminology.
- 2.2 Collection and presentation of data: Types of data, techniques of data collection- Census method, sampling method- simple random, stratified and systematic sampling. Classification, tabulation, graphical representation- Histogram and polygon.
- 2.3 Measures of central tendency and Dispersion: Arithmetic mean, Mode, Median, Range, Deviation, Mean deviation, Standard Deviation, Coefficient of Variation.
- 2.4 Statistical methods for testing the hypothesis') Students' T-test ii) Chi-square test.

Unit 3: Economic Botany: Cereals, Legumes and Oils

10

- 3.1 Origin of Cultivated Plants - Concept of centers of origin, their importance with reference to Vavilov's work.
- 3.2 Cereals: Origin, Botanical Name, Morphology, Sources and Economic importance of Wheat.
- 3.3 Legumes: Origin, Botanical Name, Morphology, Sources and Economic importance of Gram and Soybean.
- 3.4 Oils and Fats: Origin, Botanical Name, Morphology, Parts used and uses of Ground nut.

Unit 4: Economic Botany: Spices, Beverages and Fibers

10

- 4.1 Spices and Condiments - Origin, Botanical Name, Morphology, Parts used and Uses of Clove and Black pepper.
- 4.2 Beverages - Origin, Botanical Name, Morphology, Parts used and uses of Tea.
- 4.3 Fibre yielding Plants - Origin, Botanical Name, Morphology, Parts used and uses of Cotton.

B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- XV DSE -F27
Plant Biotechnology and Paleobotany

- Unit 1: Plant Biotechnology** 03
- 1.1 History, Definition, Scope and Importance (Areas of application)
- 1.2 Biotechnology in India
- Unit 2: Recombinant DNA Technology** 15
- 2.1. Introduction, Principles and enzymes involved in DNA technology..
- 2.2. Cloning Vectors: a) Prokaryotic- Plasmid, Lambda phage and Cosmid.
(Brief idea) b) Eukaryotic-YAC (Yeast Artificial Chromosomes).
- 2.3 Southern blotting and Northern blotting techniques and its applications, Molecular Probes
- 2.4. DNA Fingerprinting, Molecular DNA Markers (RAPD, RFLP)
- 2.5 PCR, DNA sequencing and Concept of Gene bank.
- Unit 3: Plant Tissue Culture** 15
- 3.1 Principles and Terminologies, Laboratory Requirement (Conditions and Instruments),
Culture Media, Totipotency and Cellular Differentiation,
- 3.2 Micro propagation: Stages of Micro propagation- Callus formation, Root Initiation, Shoot
Initiation, Primary and Secondary Hardening, Advantages and disadvantages
- 3.3 Embryogenesis: Protoplast culture, Cybrid
- 3.4 Somaclonal Variations
- Unit 4: Paleobotany** 12
- 4.1 General account, Geological time scale, process of fossilization, Types of fossils.
- 4.2 Study of following form genera with reference to systematic position, external morphology
and affinities: a) *Lyginopteris*, b) *Enigmocarpon*.
- 4.3 Application of paleobotany: Role of microfossil in oil and coal exploration.

B.Sc. Part- III Botany
CREDITS: 2, LECTURE PERIOD: 3 PER WEEK, MARKS: 40+10
Paper- XVI DSE -F28
Bio fertilizers and Herbal Drug Technology

Unit 1: Biofertilizers

11

1.1 Introduction, Importance, types and study of –

- a) Bacterial fertilizers: *Rhizobium*, *Azotobacter*, *Azospirillum*
- b) Blue green Algal: Cyanobacteria (BGA): *Nostoc*, *Anabaena*.
- c) Mycorrhizal association: VAM
- d) Fungal: *Trichoderma*

1.2 Organic manures –

- a) Farm Yard Manure, Green manure, Compost
- b) Vermicomposting and Vermi-wash

Unit 2: Herbal Medicines

11

2.1 Definition, Importance of herbal medicines

2.2 Classification of crude drugs: Taxonomical, Morphological and Chemical

2.3 Identification, authentication, collection, processing and storage of medicinal plants.

2.4 Introduction to general methods of extraction, isolation and purification of Phyto constituents.

Unit 3: Herbal cosmetology

11

3.1 Applications of herbs in cosmetics: Shampoo (*Sapindus laurifolius*, *Acacia concinna*), hair dye (*Lawsonia inermis*)

3.2 Facemask (*Santalum album*), bath oil (*Rosa indica*), perfume (*Jasminum sambac*).

Unit 4: Pharmacognosy

12

4.1 Pharmacognosy: Introduction And, Definition

4.2 Medicinal uses of Tulsi, Ginger, Methi, Amla.

4.3 Adulteration of drugs of natural origin: Evaluation by morphological, Microscopic, Chemical, Physical, Chromatographical, Spectrophotometric.

4.4 Plant antioxidants: Properties of Antioxidants, Vitamins (C and E)

Shivaji University, Kolhapur

B.Sc. III Botany (CBCS Syllabus)

Practical-I (Based on Paper No. X and XV)

- 1 Preparation of culture media -PDA (slants and Plates) and sterilization. 1-2
- 2 Methods of inoculation- on slants and plates 3
- 3 Isolation of soil fungi by serial dilution method. 4-5
- 4 Study of different types of stains in biological studies. 6-7
- 5 Method of control of seed borne diseases (Dipping/Seed dressing) 8-10
- 6 and 7 Plant diseases as per theory 11-16
- 8 and 9 Demonstration of Mushroom Cultivation and Harvesting 17-19
- 10 Isolation of plant genomic DNA and its spooling. 20-21
- 11 Calorimetric estimation of DNA using di-phenyl amine. 22-24
- 12 Preparation of plant tissue culture medium (M.S.). 25-28
- 13 Demonstration of techniques of *In Vitro* culture using suitable ex-plant. 29-32
- 14 Demonstration of inoculation of explants on suitable medium (M.S.) 33-34
- 15 Isolation of Protoplast. 35-37
- 16 Study of steps in genetic engineering for the production of Golden rice with the help of photographs. 38-40
- 17 Identification of types of fossils - i) Impression ii) Compression iii) Petrification IV) Coal. 41-44
- 18 Identification of - i) *Lyginopteris*
- 19 Identification of *Enigmocarpon*
- 20 Submission of plant diseases



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Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal

Shivaji University, Kolhapur
B.Sc. III Botany (CBCS Syllabus)
Practical-II (Based on Paper No. IX and XIV)

1. Genetic examples on Linkage. 46-50
2. Genetic examples on Crossing over 51-52
3. Genetic examples on Polygene inheritance 53-56
4. Determination of chromosome count in PMCs in *Allium / Cynoetis*. 57-59
5. Detection of meiotic anomalies in chromosomes in *Rhoeo*. 60-62
6. Preparation of karyotypes – idiograms by using photographs. 63-65
7. Methods of emasculation 66-67
8. Breeding techniques in a) Malvaceae b) Fabaceae c) Poaceae 68-73
9. Mounting of floral parts. 74-75
10. Study of World map to show Vavilov's centers of origin of cultivated plants. 76-78
11. Study of Botanical Name. Morphology, Parts used and Economic importance of Wheat. 79-80
12. Study of Botanical Name. Morphology, Parts used and Economic importance of Gram and Soybean. 81-84
13. Study of Botanical Name. Morphology, Parts used and Economic importance of Clove and Black pepper. 85-87
14. Study of Botanical Name. Morphology, Parts used and Economic importance of Ground nut. 88
15. Study of Botanical Name. Morphology, Parts used and Economic importance of Cotton. 89-90
16. Measures of central tendency of given data. 91-92
17. Study of frequency distribution and its graphical representation 93-94
18. Determination of Standard deviation of the given data. 95-96
19. Submission of PPT on the basis gene transfer method. 97 onwards



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Shivaji University, Kolhapur
B.Sc. III Botany (CBCS Syllabus)
Practical-III (Based on Paper No. XI and XVI)

1. To study prokaryotic cells (bacteria), eukaryotic cells with the help of electron micrograph / photographs. 1-2
- 2 and 3 Study of the photomicrography technique. 3-5
- 4 Study of cell structure in Onion, *Hydrilla* leaf and *Spirogyra* filament. 6-7
- 5 Study of mitosis. 8-9
- 6 Study of meiosis. 10-12
7. Use of dialysis to separate smaller molecules from larger molecules. 13-14
- 8 Micrometry technique. 15-16
- 9 Study of DNA packaging by micrographs. 17-18
- 10 Study of Beer and Lambert's Law. 19-20
- 11 Preparation of permanent cytological slides. 21-22
- 12 Submission of photomicrograph. 23-25
- 13 Application of Biofertilizers - i) *Nostoc* ii) *Azotobacter* iii) *Rhizobium* iv) *Trichoderma* 26-28
- 14 Identification of organic manure - i) Green manure (*Crotalaria juncea*), 29-31
ii) Vermicompost iii) Vermiwash
- 15 and Herbal Preparations of
- 16 i) Churn (Triphalachurna) ii) Kadha /Decoction (Adulsa) 32-35
iii) Hair oil (Maka) iv) Shampoo (Ritha, Shikakai).
- 17 Biochemical test for drug adulteration of 36-39
i) Haladi (*Curcuma longa*) ii) Hing (*Ferulaassa-foetida*)
iii) Camphor (*Cinnamomum camphora*) iv) Saffron (*Crocus sativus*)
- 18 Macroscopic (Organoleptic) study of - i) Tulsi ii) Ginger iii) Methii v) AVALA. 40-44.
- 19 Determination of Vein-islet Number by Camera Lucida. 45-47
20. Phytochemical analysis- Qualitative tests for Tannins, Alkaloids, Saponins, Steroids, 48-50
Terpenoids, Flavonoids, reducing sugars, carbohydrates. (Any four).
- 21 Visit to Herbal cosmetics industry/Pharma industry (Separate handwritten report to be submitted by student).

Shivaji University, Kolhapur
B.Sc. III Botany (CBCS Syllabus)
Practical-IV (Based on Paper No. XII and XIII)

1. Study of budding technique – Patch and T-budding 52-53
- 2 Study of Layering technique – Air layering 54
- 3 Study of Grafting technique – Whip and Approach 55-56
- 4 Technique of Potting and Repotting 57-58
- 5 Demonstration of Bonsai 59-60
- X 6 Demonstration of Bottle garden and hanging baskets. 61-62
- 7 Floral arrangement – Flower pot, Floral bouquet, Floral Rangoli 63-65
- ✓ 8 Garden implements (Any five) – Garden shear, sickle, cutter, shovel, budding knife, secateur, water can, pruning scissors, sprayer, spade 66-70
- X 9 Study of ornamental plants – Rose, Gerbera, Marigold – 71-73
- ✓ 10 Study of hedge and edge plants. 74-77
- ✓ 11 Study of indoor plants. 78-79
- ✓ 12 Qualitative test for sugar in plant material 80-81
- 13 Qualitative tests for starch and cellulose in plant material 82-83
- 14 Qualitative test for proteins. 84-85
- 15 Qualitative test for lipids. 86-87
- X 16 Identification of sugars by ascending paper chromatography. 88-89
- 17 Determination of fatty acid value of oil sample. 90-91
- 18 Separation and identification of amino acids by TLC (Thin Layer Chromatography). 92-93
- X 19 Determination of iso-electric point of plant protein. 94-95
20. Visit to nursery/ Aesthetic garden / Exhibition / Food industry (Separate handwritten report to be submitted by student)



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SHIVAJI UNIVERSITY, KOLHAPUR.



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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part – I

Statistics

SEMESTER I AND II

(Syllabus to be implemented from June, 2022 onwards.)

B. Sc. Part – I Semester – I
DSC –7A – STATISTICS – I
(DESCRIPTIVE STATISTICS – I)

Theory: 30 hrs. Marks -50 (Credits: 02)

Course Outcomes: The students will acquire knowledge of

- i. meaning and scope of Statistics, various statistical organizations,
- ii. data and types of data, various data presenting methods,
- iii. population, sample and various methods of sampling,
- iv. various measures of central tendencies and dispersion,
- v. moments, skewness and kurtosis.

CONTENTS:

Unit - 1 **(15 hrs.)**

1.1 Introduction to Statistics: Meaning of Statistics as a Science, Importance of Statistics, Definition of Statistics, Various fields where Statistics is used, Names of various statistical organizations in India.

1.2 Population and Sample: Statistical population. Finite population, Infinite population, Census method, Sampling method, Advantages of sampling method over census method.

Methods of sampling (Description only): Sample and Random sample, Simple random sampling with and without replacement (SRSWR and SRSWOR), Stratified random sampling, Systematic sampling.

1.3 Nature of Data: Primary and Secondary data, Time series data, Quantitative and Qualitative data, Attributes, Variables, Discrete and Continuous variables, Scales of measurement - Nominal, Ordinal, Interval and Ratio scale, illustrative examples.

1.4 Presentation of Data:

Classification: Raw data and its classification, Discrete frequency distribution, Continuous frequency distribution, Cumulative frequency distribution, Inclusive and Exclusive methods of classification, Open end classes, Relative frequency distribution, illustrative examples.

Tabulation: Parts of table, Characteristics of good table, Types of table, illustrative examples.

Diagrammatic Presentation: Introduction to Simple Bar Diagram, Multiple Bar Diagram, Sub-Divided Bar Diagram, Pie Diagram.

Graphical Presentation: Histogram, Frequency Polygon, Frequency Curve, Ogive curves and Box plot.

Unit - 2 **(15 hrs.)**

2.1 Measures of Central Tendency: Mathematical and positional, Concept of central tendency of statistical data, statistical average, requirements of good statistical average.

Arithmetic Mean (A.M.): Definition, Effect of change of origin and scale, Deviation of observations from A.M., Mean of pooled data, Weighted A.M.

Geometric Mean (G.M): Definition, illustrative examples.

Harmonic Mean (H.M.): Definition, Relation: $A.M \geq G.M \geq H.M$ (proof for $n = 2$ positive observations), illustrative examples.

Median: Definition, Derivation of formula for grouped frequency distribution.

Mode: Definition, Derivation of formula for grouped frequency distribution. Empirical relation between mean, median and mode. Graphical method of determination of Median and Mode.

Partition values: Quartiles, Deciles and Percentiles.

Comparison between averages in accordance with requirements of good average. Situations where one kind of average is preferable to others, illustrative examples.

2.2 Measures of Dispersion: Concept of dispersion, Absolute and Relative measures of dispersion, Requirements of a good measure of dispersion.

Range: Definition, Coefficient of range.

Quartile Deviation (Q. D. or Semi-inter quartile range): Definition, Coefficient of Q.D.,

Mean Deviation (M.D.): Definition, Coefficient of M.D., Minimal property of M.D.,

Mean Square Deviation (M.S.D.): Definition, Minimal property of M.S.D.,

Variance and Standard Deviation (S.D.): Definition, Effect of change of origin and scale, variance and S.D. of pooled data (proof for two groups).

Coefficient of Variation: Definition and use. Illustrative examples.

2.3 Moments, Skewness and Kurtosis: Moments: Raw moments and central moments for ungrouped and grouped data. Effect of change of origin and scale on central moments, relation between central moments and raw moments (up to 4th order). Sheppard's corrections.

Skewness: Concept of skewness of a frequency distribution, types of skewness. Bowley's coefficient of skewness, Karl Pearson's coefficient of skewness, measure of skewness based on moments.

Kurtosis: Concept of kurtosis of a frequency distribution, Types of kurtosis, Measure of kurtosis based on moments. Illustrative examples.

Books Recommended:

1. Bhat B. R., Srivenkatramana T. and Madhava Rao K. S. (1996): Statistics: A Beginner's Text, Vol. 1, New Age International (P) Ltd.
2. Croxton F. E., Cowden D.J. and Kelin S. (1973): Applied General Statistics, Prentice Hall of India.
3. Goon A.M., Gupta M.K., and Dasgupta B.: Fundamentals of Statistics Vol. I and II, World Press, Calcutta.
4. Gupta S. P. (2002): Statistical Methods, Sultan Chand and Sons, New Delhi.
5. Gupta V.K. & Kapoor S.C.: Fundamentals of Mathematical Statistics.- Sultan & Chand.
6. Hogg R. V. and Crag R. G.: Introduction to Mathematical Statistics Ed.4.
7. Hoel P. G. (1971): Introduction to Mathematical Statistics, Asia Publishing House.
8. Kore B. G. and Dixit P. G.: "Descriptive statistics-I", Nirali Prakashan, Pune.

9. Mood A. M., Graybill F. A. and Boes D. C. (1974): Introduction to the Theory of Statistics, McGraw Hill.
10. Snedecor G.W. and Cochran W. G. (1967): Statistical Methods, Iowa State University Press.
11. Waiker and Lev.: Elementary Statistical Methods.

Note: 1. In theory examination, the weightage to numerical problems should not exceed 30%.
 2. Students can use scientific calculators in theory examination.

B. Sc. Part – I Semester – I
DSC –8A – STATISTICS – II
(ELEMENTARY PROBABILITY THEORY)
Theory: 30 hrs. Marks -50 (Credits: 02)

Course outcomes: Students will be able to;

- i. distinguish between random and non-random experiments
- ii. acquire knowledge of concepts of probability
- iii. use the basic probability rules, including additive and multiplicative laws
- iv. understand concept of conditional probability and independence of events.
- v. understand concept of univariate random variable and its probability distributions
- vi. acquire knowledge of mathematical expectation of univariate random variable.

CONTENTS:

Unit – 1 **(15 hrs.)**

1.1 Sample space and events: Concepts of experiments and random experiments. Definitions: Sample space, Discrete sample space (finite and countably infinite), Event, Elementary event, Compound event. Algebra of events (Union, Intersection, Complementation). Definitions of mutually exclusive events, Exhaustive events, Impossible events, Certain event. Power set $|P(\Omega)$ (sample space consisting at most 3 sample points). Symbolic representation of given events and description of events in symbolic form. Illustrative examples.

1.2 Probability: Equally likely outcomes (events), apriori (classical) definition of probability of an event. Equiprobable sample space, simple examples of computation of probability of the events based on permutations and combinations. Definition of probability in terms of odd ratio with illustrative examples. Axiomatic definition of probability. Proof of the results: i) $P(\Phi) = 0$, ii) $P(A^c) = 1 - P(A)$, iii) $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ (with proof) and its generalization (Statement only), iv) If $A \subseteq B$, $P(A) \leq P(B)$, v) $0 \leq P(A \cap B) \leq P(A) \leq P(A \cup B) \leq P(A) + P(B)$.

Unit – 2 **(15 hrs.)**

2.1 Conditional Probability and Independence of events: Definition of conditional probability of an event. Multiplication theorem for two events. Examples on conditional probability. Concept of independence of two events. Proof of the result that if A and B are

independent then, i) A and B^C are independent, ii) A^C and B are independent, iii) A^C and B^C are independent. Pairwise and Mutual independence for three events. Elementary examples.

Partition of sample space. Idea of posteriori probability, statement and proof of Baye's theorem, illustrative examples on Baye's theorem.

2.2 Univariate Probability Distributions (finite sample space): Definition of discrete random variable. Probability mass function (p.m.f.) and cumulative distribution function (c.d.f.) of a discrete random variable, Properties of c.d.f. (statements only). Probability distribution of function of random variable. Median and mode of a univariate discrete probability distribution. Examples.

2.3 Mathematical expectation (Univariate random variable): Definition of expectation of a random variable. Expectation of a function of a random variable, Results on expectation of a functions of a random variable: i) $E(c) = c$, where c is a constant, ii) $E(aX + b) = aE(X) + b$, where a and b are constants, definitions of mean, variance of univariate distribution, $V(aX + b) = a^2V(X)$, definition of raw, central moments, definition of probability generating function (p.g.f.) of a random variable, obtaining mean and variance by using p.g.f. Effect of change of origin and scale on p.g.f.

Books Recommended

1. Bhat B. R., Srivenkatramana T. and Madhava Rao K. S. (1996): Statistics: A Beginner's Text, Vol. 1, New Age International (P) Ltd.
2. Edward P. J., Ford J. S. and Lin (1974): Probability for Statistical Decision-Making, Prentice Hall.
3. Goon A.M., Gupta M.K., and Dasgupta B.: Fundamentals of Statistics Vol. I and II, World Press, Calcutta.
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6. Hoel P. G. (1971): Introduction to Mathematical Statistics, Asia Publishing House.
7. Kore B. G. and Dixit P. G.: "Elementary Probability Theory", Nirali Prakashan, Pune.
8. Meyer P.L. (1970): Introductory Probability and Statistical Applications, Addison Wesley.
9. Mukhopadhyay P. (2006): Probability. Books and Allied (P) Ltd.
10. Rohatgi V. K. and Saleh A. K. Md. E. (2002): An Introduction to probability and statistics. John wiley & Sons (Asia).
11. Snedecor G.W. and Cochran W. G. (1967): Statistical Methods, Iowa State University Press.

Note:

1. In theory examination, the weightage to the numerical problems should not exceed 30%.
2. Students can use scientific calculators in theory examination.

B. Sc. Part – I Semester – II

DSC –7B – STATISTICS – III
(DESCRIPTIVE STATISTICS – II)

Theory: 30 hrs. Marks -50 (Credits: 02)

Course Outcomes: Students will acquire knowledge of;

- i. correlation coefficient and interpret its value.
- ii. regression coefficients, interpret its value and use in regression analysis.
- iii. qualitative data including concept of independence and association between two attributes
- iv. vital statistics and concept of mortality and fertility and growth rates.

CONTENTS:

Unit – 1

(15 hrs.)

1.1 Correlation: Bivariate data, Need of analysis of bivariate data, Concept of correlation between two variables, Types of correlation.

Methods of studying correlation: 1) Scatter diagram, its utility, Covariance: Definition, Effect of change of origin and scale, 2) Karl Pearson's coefficient of correlation (r): Definition, Computation for ungrouped and grouped data. Properties: i) $-1 \leq r \leq 1$, Interpretation for different values of r , ii) Effect of change of origin and scale, 3) Spearman's rank correlation coefficient: Definition, Computation (with and without ties). Derivation of the formula for without ties and modification of the formula for with ties. Illustrative examples.

1.2 Regression: Concept of regression, Lines of regression of Y on X ($Y=a + bX + \varepsilon$) and X on Y, fitting of lines of regression by the least square method, Regression coefficients b_{xy} , b_{yx} and their geometric interpretations

Properties: i) $b_{xy} \times b_{yx} = r^2$, ii) $b_{xy} \times b_{yx} \leq 1$, iii) $\frac{b_{xy} \times b_{yx}}{2} \geq r$, iv) Effect of change of origin and scale on regression coefficients, The point of intersection of two regression lines, Derivation of acute angle between the two lines of regression, Concept of residual, Mean residual sum of squares, Residual Plot (Residual versus fitted value) and its interpretation, Explained and unexplained variation, coefficient of determination, Illustrative examples.

Unit – 2

(15 hrs.)

2.1 Attributes: Introduction and Notations of Attribute, Dichotomy, class, order of class, positive and negative class, class frequency, ultimate class frequency, fundamental set of class frequency, relationships among different class frequencies (up to three attributes), Concept of consistency, Concept of independence and association of two attributes, Yule's coefficient of association (Q): Definition, $-1 \leq Q \leq +1$, interpretation, Coefficient of colligation (Y): Definition, interpretation, Relation between Q and Y : 1) $Q = \frac{2Y}{1+Y^2}$, 2) $|Q| \geq |Y|$, Correlation Coefficients: 1) Point Biserial Correlation Coefficient, 2) Phi Coefficient, 3) Tetrachoric Correlation Coefficient, Illustrative examples.

2.2 Demography: Introduction, vital events and need of vital statistics, Measures of fertility: Crude Birth Rate (CBR), Age Specific Fertility Rate (ASFR), General Fertility Rate

(GFR), Total Fertility Rate (TFR), Measures of reproduction: Gross Reproduction rate (GRR), Net Reproduction Rate (NRR), Measures of mortality: Crude death rate (CDR), Specific Death Rate (SDR) by i) Direct method ii) Indirect method, Standardized Death Rate (STDR), Population projection at time t, Life Table - construction and its applications in insurance, Use and Applications

Books Recommended:

1. Bhat B. R., Srivenkatramana T and Madhava Rao K. S. (1997): Statistics: a Beginner's Text, Vol. I, New Age International (P) Ltd.
2. Croxton F. E., Cowden D.J. and Kelin S. (1973): Applied General Statistics, Prentice Hall of India.
3. Goon A. M., Gupta M. K., Das Gupta B. (1999): Fundamentals of Statistics, Vol. I and II, World Press, Calcutta.
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5. Gupta V.K. & Kapoor S.C. Fundamentals of Mathematical Statistics.- Sultan Chand & Sons Pvt. Ltd. New Delhi.
6. Kapur, J. N and Gupta, H. C. : Fundamentals of Mathematical Statistics, S. Chand and sons, New Delhi.
7. Kore B. G. and Dixit P. G.: "Descriptive Statistics-II", Nirali Prakashan, Pune.
8. Srivastav D. S: A Text book of Demography
9. Snedecor G.W. and Cochran W. G. (1967): Statistical Methods, Iowa State University Press.
10. Waiker and Lev.: Elementary Statistical Methods.

Note:

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2. Students can use scientific calculators in theory examination.

B. Sc. Part – I Semester – II

DSC –8B – STATISTICS – IV

(DISCRETE PROBABILITY DISTRIBUTIONS)

Theory: 30 hrs. Marks -50 (Credits: 02)

Course Outcome: Student will be able to acquire knowledge of;

- i. bivariate discrete distributions, independence of bivariate r.v.s., Mathematical expectation of bivariate discrete random variable.
- ii. one point distribution, two point distribution, Bernoulli distribution,
- iii. Uniform distribution, Binomial distribution, Hypergeometric distribution,
- iv. Poisson distribution, Geometric distribution and Negative binomial distribution.

CONTENTS:

Unit – 1

(15 hrs.)

1.1 Bivariate Discrete Distribution: Definition of bivariate discrete random variable (X, Y) on finite support, Joint p.m.f., and c.d.f., Properties of c.d.f. (without proof), computation of probabilities of events in bivariate probability distribution, marginal and conditional probability distribution. Independence of two discrete r.v.s.,

1.2 Mathematical Expectation: Definition of expectation of function of r.v. in bivariate distribution. Theorems on expectations: (i) $E(X+Y) = E(X) + E(Y)$, (ii) $E(XY) = E(X) \cdot E(Y)$ when X and Y are independent. Expectation and variance of linear combination of two discrete r.v.s., Definition of conditional mean, conditional variance. Covariance and correlation coefficient. $Cov(aX+bY, cX+dY)$. Distinction between uncorrelated and independent variables, Proof of the p.g.f. of sum of two independent r.v. as the product of their p.g.f.

Unit – 2

(15 hrs.)

2.1 Some Standard Discrete Probability Distributions: (finite support):

One point distribution: p.m.f., mean and variance,

Two point distribution: p.m.f., mean and variance,

Bernoulli distribution: p.m.f., p.g.f., mean, variance.

Discrete Uniform Distribution: p.m.f., mean and variance.

Binomial Distribution: Binomial random variable, p.m.f. with parameters (n, p), recurrence relation for obtaining successive probabilities, mean, and variance, skewness, p.g.f., Additive property of binomial variates, distribution of sum of independent and identically distributed Bernoulli variables.

Hyper geometric Distribution: p.m.f. with parameters (N, M, n), Computation of probability of different events, recurrence relation for successive probabilities, mean and variance of distribution assuming $n \leq N - M \leq M$, Approximation of hypergeometric to binomial distribution (Statement only).

2.2 Some Standard Discrete Probability Distributions: (Countable infinite support):

Poisson Distribution: Definition of Poisson with parameter λ , mean, variance, probability generating function (p.g.f.). Recurrence relation for obtaining successive probabilities. Additive property of Poisson distribution. Poisson distribution as a limiting case of Binomial distribution (Statement Only).

Geometric Distribution: Definition of Geometric distribution with parameter p, mean and variance, cumulative distribution function. p.g.f. Lack of memory property.

Negative Binomial Distribution: Definition of Negative binomial distribution with parameters (k, p). Geometric distribution is a particular case of Negative binomial distribution, mean, variance, p.g.f., Recurrence relation for obtaining successive probabilities.

Books Recommended:

1. Bhat B. R., Srivenkatramana T and Madhava Rao K. S. (1997): Statistics: a Beginner's Text, Vol. II, New Age International (P) Ltd.
2. Edward P. J., Ford J. S. and Lin (1974): Probability for Statistical Decision-Making, Prentice Hall.

3. Goon A. M., Gupta M. K., Das Gupta B. (1999): Fundamentals of Statistics, Vol. I and II, World Press, Calcutta.
4. Gupta S. P. (2002): Statistical Methods, Sultan Chand and Sons, New Delhi.
5. Gupta V.K. & Kapoor S.C. Fundamentals of Mathematical Statistics, Sultan & Chand
6. Hogg R. V. and Crag R. G.: Introduction to Mathematical Statistics Ed.4.
7. Hoel P. G. (1971): Introduction to Mathematical Statistics, Asia Publishing House.
8. Kapur J. N. and Gupta H. C. : Fundamentals of Mathematical Statistics, S. Chand and sons, New Delhi.
9. Kore B. G. and Dixit P. G.: Discrete Probability Distributions, Nirali Prakashan, Pune.
10. Meyer P. L. (1970): Introductory Probability and Statistical Applications, Addison Wesley.
11. Mood A. M., Graybill F. A. and Boes D. C. (1974): Introduction to the Theory of Statistics, McGraw Hill.
12. Mukhopadhyay P. (2006): Probability. Books and Allied (P) Ltd
13. Rohatgi V. K. and Saleh A. K. Md. E. (2002): An Introduction to probability and statistics. John wiley & Sons (Asia)

Note: 1. In theory examination, the weight age to the numerical problems should not exceed 30%.

2. Students can use scientific calculators in theory examination.

Practical Paper-I (Credit 2+2)

Pre requisites: Knowledge of the topics in the theory papers.

Course Outcomes: Students will able to;

- i. acquire knowledge of computations using MS-Excel.
- ii. represent statistical data diagrammatically and graphically.
- iii. compute various measures of central tendency, dispersion, moments, skewness and kurtosis.
- iv. compute correlation coefficient, regression coefficients.
- v. understand consistency, association and independence of attributes.
- vi. interpret summary Statistics of computer output.
- vii. know applications of some standard discrete probability distributions.
- viii. compute the various fertility rates, mortality rates and growth rates.

List of Practicals:

1. Data handling using MS-Excel
2. Computations using MS-Excel
3. Diagrammatic and Graphical presentation.
4. Measures of central tendency
5. Measures of the dispersion
6. Moments, skewness and kurtosis.
7. Use of random numbers to draw SRSWOR, SRSWR, Stratified and Systematic sample.
8. Computation of probabilities using Baye's theorem.

9. Correlation coefficient, and regression (ungrouped data)
10. Correlation coefficient and regression (grouped data)
11. Spearman's rank correlation coefficient
12. Attributes (Missing frequencies, consistency, association and independence).
13. Demography (Computations of Fertility rates, Mortality rates and Growth rates)
14. Applications of Uniform, Binomial and Hypergeometric distribution.
15. Applications of Poisson, Geometric and Negative Binomial distribution.
16. Bivariate Discrete distribution I. (Marginal and conditional distribution, computation of probabilities of events).
17. Bivariate Discrete distribution II (Expectation /conditional expectation / variance / conditional variance /covariance / correlation coefficient)
18. Case study equivalent to 3 practicals.

Notes:

- a. Students must complete all experiments using MS-EXCEL.
- b. Case study - Different data sets from newspapers, internet, magazines may be collected and students will be asked to use statistical techniques/tools which they have learnt.
- c. MS-EXCEL should be used at the time of practical examination for calculation.
- d. Student must complete the entire practical to the satisfaction of the teacher concerned.
- e. Student must produce laboratory journal along with completion certificate signed by Head of the Department, at the time of practical examination.

Laboratory Requirements:

Laboratory should be well equipped with at least 20 computers along with necessary Software's, at least two printers, sufficient back up facility (UPS/ Inverter/ Generator).

Nature of Practical Question Paper:

- a) In the practical question paper there shall be four questions each of 16 marks, a student has to attempt any two questions.
- b) Computations should be completed using MS-EXCEL and should be demonstrated to examiner. Experiment aim, formulae, results etc. should be written on practical answer paper.
- c) 8 marks are reserved for case study, 5 marks are reserved for the journal and 5 marks for the oral examination.
- d) Practical examination is of four hours duration which includes viva (oral) examination and on line demonstration.

SHIVAJI UNIVERSITY, KOLHAPUR
CBCS SYLLABUS WITH EFFECT FROM JUNE 2019

B. Sc. Part-II Semester III

SUBJECT – STATISTICS - V

DSC-7C: Probability Distributions–I

Theory : 36 hrs. Marks-50 (Credit 02)

OBJECTIVES:

The main objective of this course is to acquaint students with the basic concepts of discrete distributions defined on countably infinite sample space, continuous univariate and bivariate distributions, transformation of univariate continuous random variable. By the end of course students are expected to be able to:

- a) understand concept of discrete and continuous distributions with real life situations.
- b) distinguish between discrete and continuous distributions.
- c) find various measures of r.v. and probabilities using it's probability distribution.
- d) know the relations among the different distributions.
- e) understand the concept of transformation of univariate and bivariate continuous random variable.

CONTENTS:

Unit-1:

(18 hrs.)

1.1 Discrete Distributions: Poisson, Geometric and Negative Binomial Distribution:

Definition of random variable (defined on countably infinite sample space). Poisson Distribution: Definition of Poisson with parameter λ . mean, variance, probability generating function (p.g.f.). Recurrence relation for successive probabilities, Additive property of Poisson distribution. Poisson distribution as a limiting case of Binomial distribution, examples. Geometric Distribution: Definition of Geometric with parameter p , mean, variance, distribution function, p. g. f., Lack of memory property, examples. Negative Binomial Distribution: Definition of Negative Binomial with parameters (k, p) , Geometric distribution is a particular case of Negative Binomial distribution, mean, variance, p.g.f., Recurrence relation for successive probabilities, examples.

1.2 Continuous Univariate Distribution: Definition of the continuous sample space with illustrations, Definition of continuous random variable (r.v.), probability density function (p.d.f.), cumulative distribution function (c.d.f.) and its properties. Expectation of r.v., expectation of function of r.v., mean, median, mode, quartiles, variance, harmonic mean, raw and central moments, skewness and kurtosis, examples. Moment generating function (m.g.f.): definition and properties (i) Standardization property $M_X(0) = 1$, (ii) Effect of change of origin and scale, (iii) Uniqueness property of m. g. f., if exists, (statement only). Generation of raw and central moments. Cumulant generating function (c.g.f.): definition, relations between cumulants and central moments (up to order four). Examples.

Unit-2:

(18 hrs.)

2.1 Continuous Bivariate Distribution: Definition of bivariate continuous r. v. (X, Y) , Joint p.d.f., c.d.f. with properties, marginal and conditional distribution, independence of r.v.s., evaluation of probabilities of various regions bounded by straight lines. Expectation of function of r.v., means, variances, covariance, correlation coefficient, conditional expectation, regression as conditional expectation if it is linear function of other variable, conditional variance, proof of i) $E(X \pm Y) = E(X) \pm E(Y)$, ii) $E[E(X/Y)] = E(X)$. If X and Y are independent r. vs. then (i) $E(XY) = E(X)E(Y)$, (ii) $M_{x+y}(t) = M_x(t) \times M_y(t)$. Examples.

2.2 Transformations of continuous random variable: Transformation of univariate continuous r. v.: Distribution of $Y = g(X)$, where g is monotonic or non-monotonic

H. V. Kulkarni
12/3/2019

functions using (i) Jacobian of transformation, (ii) Distribution function and (iii) M.g.f. methods. Transformation of continuous bivariate r. vs.: Distribution of bivariate r. vs. using Jacobian of transformation. Examples and problems.

References and Recommended Readings

1. Parimal Mukhopadhyaya: An Introduction to the Theory of Probability. World Scientific Publishing.
2. Hogg R. V. and Criag A.T.: Introduction to Mathematical Statistics (Third edition), Macmillan Publishing, New York.
3. Gupta S. C. & Kapoor V.K.: Fundamentals of Mathematical Statistics. Sultan Chand & sons, New Delhi.
4. Goon, A.M., Gupta M.K. and Dasgupta B: Fundamentals of Statistics Vol. I and Vol. II World Press, Calcutta.
5. Mood A.M., Graybill F.A.: Introduction to theory of Statistics. (Chapter II, IV, V, VII) and Boes D.C. Tata, McGraw Hill, New Delhi. (Third Edition)
6. Walpole R.E. & Mayer R.H.: Probability & Statistics. (Chapter 4, 5, 6, 8, 10) MacMillan Publishing Co. Inc, New York.

SHIVAJI UNIVERSITY, KOLHAPUR CBCS SYLLABUS WITH EFFECT FROM JUNE 2019

B. Sc. Part-II Semester III SUBJECT – STATISTICS - VI DSC-8C: Statistical Methods-I Theory : 36 hrs. Marks-50 (Credit 02)

OBJECTIVES:

The main objective of this course is to acquaint students with the basic concepts of Multiple Linear Regression, Multiple and Partial Correlation, Sampling Theory and Demography.

By the end of the course students are expected to be able to:

- a) understand the concept of Multiple Linear Regression.
- b) understand the concept of Multiple Correlation and Partial Correlation.
- c) know the concept of sampling theory.
- d) understand the need of vital statistics and concept of mortality and fertility.

CONTENTS:

Unit 1:

(18 hrs.)

- 1.1 **Multiple Linear Regression (for trivariate data only):** Concept of multiple linear regression, plane of regression, Yule's notation, correlation matrix, fitting of regression plane by method of least squares, definition of partial regression coefficient and their interpretation. Residual: definition, order, properties, derivation of mean and variance, covariance between residuals.
- 1.2 **Multiple and Partial Correlation (for trivariate data only):** Concept of multiple correlation. Definition of multiple correlation coefficient R_{ijk} , derivation of formula for multiple correlation coefficient R_{ijk} . Properties of multiple correlation coefficient; i) $0 \leq R_{ijk} \leq 1$, (ii) $R_{ijk} > |r_{ij}|$, (iii) $R_{ijk} > |r_{ik}|$ $i = j = k = 1, 2, 3$. $i \neq j$, $i \neq k$. Interpretation of $R_{ijk} = 1$, $R_{ijk} = 0$, coefficient of multiple determination $R^2_{1,23}$. Concept of partial correlation. Definition of partial correlation coefficient $r_{ij.k}$, derivation of formula for $r_{ij.k}$. Properties of partial correlation coefficient; (i) $-1 \leq r_{ij.k} \leq 1$, (ii) $b_{ij.k} \times b_{ji.k} = r^2_{ij.k}$. Examples and problems.

Unit-2:

(18 hrs.)

- 2.1 **Sampling Theory:** Concept of distinguishable elementary units, sampling units, sampling frame, random sampling and non-random sampling. Advantages of sampling method over census method, Objectives of a sample survey, Designing a

questionnaire, Characteristics of a good questionnaire, Concept of sampling and non-sampling errors, Handling of non-response cases. Simple random sampling - Simple random sampling from finite population of size N with replacement (SRSWR) and without replacement (SRSWOR): Definitions, population mean and population total as parameters. *Following results with proof.*

- i. In SRSWOR, the probability of a specified unit being selected in sample at any given draw is equal to $1/N$.
- ii. In SRSWOR, the probability of a specific unit included in the sample is n/N .
- iii. In SRSWOR, the probability of drawing a sample of size 'n' from a population of size N units is $\frac{1}{\binom{N}{n}}$.
- iv. In SRSWR, the probability of a specific unit included in the sample is $1 - \left(1 - \frac{1}{N}\right)^n$.
- v. In SRSWR, the probability of drawing a sample of size n from a population of size N units is $\frac{1}{N^n}$.

2.2 Demography: Introduction and need of vital statistics. Mortality Rates: Crude death rate (CDR), Specific Death Rate (SDR), Standardized Death Rate (STDR). Fertility Rates: Crude Birth Rate (CBR), Age Specific Fertility Rate (ASFR), General Fertility Rate (GFR), Total Fertility Rate (TFR). Reproduction Rate: Gross Reproduction rate (GRR), Net Reproduction Rate (NRR).

References and Recommended Readings

1. Cochran, W.G: Sampling Techniques, Wiley Eastern Ltd., New Delhi.
2. Des Raj: Sampling Theory.
3. Gupta S.C. and Kapoor V. K., "Fundamentals of Applied Statistics", Sultan and Chand, (2010).
4. Mukhopadhyay, Parimal: Theory and Methods of Survey Sampling, Prentice Hall.
5. Srivastav D. S: A Text book of Demography.
6. Sukhatme, P.V. and Sukhatme, B.V.: Sampling Theory of Surveys with Applications, Indian Society of Agricultural Statistics, New Delhi.

SHIVAJI UNIVERSITY, KOLHAPUR CBCS SYLLABUS WITH EFFECT FROM JUNE 2019

B. Sc. Part-II Semester IV

SUBJECT – STATISTICS - VII

DSC-7D: Probability Distributions-II

Theory : 36 hrs. Marks-50 (Credit 02)

OBJECTIVES:

The main objective of this course is to acquaint students with the Uniform, Exponential, Gamma and Beta, Normal distributions and Exact Sampling distributions.

By the end of the course students are expected to be able to:

- a) know some standard continuous probability distributions with real life situations.
- b) distinguish between various continuous distributions.
- c) find the various measures of continuous random variable and probabilities using its probability distribution.
- d) understand the relations among the different distributions.
- e) understand the Chi-Square, t and F distributions with their applications and inter relations.

CONTENTS:

Unit-1:

(18 hrs.)

- 1.1 Uniform and Exponential Distribution:** Uniform distribution: Definition of Uniform distribution over (a, b), c.d.f., m.g.f., mean, variance, moments. Distribution of (i) $(X-a)/(b-a)$, ii) $(b-X)/(b-a)$, (iii) $Y = F(x)$ where $F(x)$ is c.d.f. of any continuous r.v.

Exponential distribution: p.d.f. (one parameter),

$$f(x) = \theta e^{-\theta x}, x \geq 0, \theta > 0 \\ = 0, \text{ o.w}$$

c.d.f., m.g.f., c.g.f., mean, variance, C.V., moments, cumulants, median, quartiles, lack of memory property, distribution of $-(1/\theta) \log X$ where $X \sim U(0, 1)$.

- 1.2 Gamma and Beta Distributions:** Gamma distribution: Gamma distribution with scale parameter θ and shape parameter n , special case $\theta = 1, n = 1$, m.g.f., c.g.f., mean, mode, variance, moments, cumulants, $\beta_1, \beta_2, \gamma_1$ and γ_2 coefficients, additive property: distribution of sum of i.i.d. exponential variates.

Beta distribution of first kind: Beta distribution of first kind with parameters m & n . mean, mode, variance, symmetric when $m = n$, uniform distribution as a particular case when $m = n = 1$, distribution of $(1-X)$.

Beta distribution of second kind: Beta distribution of second kind with parameters m & n . mean, mode, variance, relation between beta distribution of first kind and second kind, distribution of $X+Y, X/Y$ and $X/(X+Y)$ where X and Y are independent gamma variate.

Unit-2:

(18 hrs.)

- 2.1 Normal distribution:** Normal distribution with parameters μ & σ^2 , Definition of standard normal distribution, properties of normal curve, m.g.f., c.g.f., mean, variance, median, mode, mean deviation, moments, cumulants, measures of skewness & kurtosis, distribution of linear combination of variates. Distribution of X^2 if $X \sim N(0, 1)$.

- 2.2 Exact Sampling Distributions:** Chi-Square distribution: Definition of chi-square, derivation of p.d.f. of chi square distribution with n degrees of freedom using m.g.f., mean, variance, mode, moments, c.g.f., cumulants, skewness and kurtosis, additive property.

Student's t- distribution: Definition of student's t variate. Derivation of p.d.f., mean, mode, variance, moments, $\beta_1, \beta_2, \gamma_1$ and γ_2 coefficients.

Snedecor's F distribution: Definition of F variate, derivation of p.d.f., mean, variance and mode. Distribution of $1/F$. Inter relation between t, F and χ^2 (Without Proof).

References and Recommended Readings

1. Trivedi R. S.: Probability and Statistics with Reliability and Computer Science Application, Prentice – Hall of India Pvt. Ltd., New Delhi.
2. Parimal Mukhopadhyaya: An Introduction to the Theory of Probability. World Scientific Publishing.
3. Hogg R.V. and Criag A.T.: Introduction to Mathematical Statistics (Third edition), Macmillan Publishing, New York.
4. Goon, A.M., Gupta M.K. and Dasgupta B: Fundamentals of Statistics Vol. I and Vol. II World Press, Calcutta.
5. Gupta S. C. & Kapoor V.K.: Fundamentals of Mathematical Statistics. Sultan Chand & sons, New Delhi.
6. Gupta S. C. & Kapoor V.K.: Applied Statistics. Sultan Chand & sons, New Delhi.
7. Mood A.M., Graybill F.A.: Introduction to theory of Statistics. (Chapter II, IV, V, VII) and Boes D.C. Tata, McGraw Hill, New Delhi. (Third Edition)

8. Walpole R.E. & Mayer R.H.: Probability & Statistics. (Chapter 4, 5, 6, 8, 10)
MacMillan Publishing Co. Inc, New York

SHIVAJI UNIVERSITY, KOLHAPUR
CBCS SYLLABUS WITH EFFECT FROM JUNE 2019

B. Sc. Part-II Semester IV
SUBJECT – STATISTICS -VIII
DSC-8D: Statistical Methods-II
Theory : 36 hrs. Marks-50 (Credit 02)

OBJECTIVES:

The main objective of this course is to acquaint students with the concepts of Time Series, Reliability Theory, Statistical Quality Control, Testing of Hypothesis.

By the end of the course students are expected to be able to:

- know the concept and use of time series.
- understand the meaning, purpose and use of Statistical Quality Control, construction and working of control charts for variables and attributes
- apply the small sample tests and large sample tests in various situations.

CONTENTS:

Unit-1:

(18 hrs.)

- 1.1 Time Series:** Meaning and need of time series analysis, components of time series; (i) Secular trend (ii) Seasonal variation (iii) Cyclical variation (iv) Irregular variation, Additive and Multiplicative model, utility of time series. Measurement of trend: (i) Moving averages method (ii) Progressive average method (iii) Least square method. (iv) Measurement of seasonal indices by simple average method.
- 1.2 Statistical Quality Control:** Meaning and purpose of S.Q.C., Process control, Product control, chance causes, assignable causes, Shewhart's control chart-construction & working, lack of control situation. Control charts for variables - control chart for mean, control chart for range, construction and working of mean & range charts for unknown standards, revised control limits. Control charts for Attributes – Defects, defectives, fraction defective, control chart for fraction defective (p-chart) for fixed sample size and unknown standards, construction and working of chart. Control charts for number of defects (C-chart) for unknown standards, construction and working of C-chart.

Unit 2:

(18 hrs.)

- 2.1 Testing of Hypothesis-I:** Notion of Population, Sample, Parameter, Statistic, Derivation of sampling distribution of Statistic \bar{X} and S^2 when sample is from normal distribution, hypothesis, simple and composite hypothesis, null and alternative hypothesis, type I and type II errors, critical region, level of significance. one and two tailed test, power of test.
- Large Sample Tests: General procedure of testing of hypothesis. a) Tests for means: i) testing of population mean; $H_0: \mu = \mu_0$, ii) testing equality of population means; $H_0: \mu_1 = \mu_2$ b) Tests for Proportion: i) testing of population proportion; $H_0: P = P_0$ ii) testing equality of population proportion; $H_0: P_1 = P_2$ c) test for population correlation: i) $H_0: \rho = \rho_0$ ii) $H_0: \rho_1 = \rho_2$ (by Z-transformation)
- 2.2 Testing of Hypothesis-II (Small sample Tests):** Definition of Fisher's t- variate, t- test: a) test for means: i) $H_0: \mu = \mu_0$, ii) $H_0: \mu_1 = \mu_2$, ($\sigma_1^2 = \sigma_2^2$), iii) Paired t- test, χ^2 - test: i) test for population variance $H_0: \sigma^2 = \sigma_0^2$ (Mean known and unknown),

ii) test for goodness of fit, iii) test for independence of attributes; a) $m \times n$ contingency table, b) 2×2 contingency table-Test statistic with proof, Yate's correction for continuity.

F – test: test for equality of two population variances $H_0: \sigma_1^2 = \sigma_2^2$.

References and Recommended Readings

1. Barlow R. E. and Proschan Frank, "Statistical Theory of Reliability and Life Testing", Holt Rinebart and Winston Inc., New York.
2. Chatfield C. "The Analysis of Time Series –An Introduction", Chapman & Hall, 2004.
3. Gupta S. C. & Kapoor V. K., "Fundamentals of Applied Statistics", Sultan Chand & Sons, New Delhi.
4. Kendall M.G. "Time Series", Charles Griffin, 1978.
5. Montgomery D. C. "Introduction to Statistical Quality Control", John Wiley and sons, 2009.
6. Sinha S. K., "Reliability and Life Testing", Second Edition, Wiley Eastern Publishers, New Delhi.
7. Snedecor G.W. and Cochoran W. G. "Statistical Methods", Iowa State University Press.

Equivalence for Theory Papers

Old Syllabus		Revised Syllabus	
Semester No. Paper No.	Title of the Paper	Semester No. Paper No.	Title of the Paper
Semester III Paper V	Probability Distributions-I	Semester III DSC – 7C STATISTICS - V	Probability Distributions-I
Semester III Paper VI	Statistical Methods-I	Semester III DSC – 8C STATISTICS - VI	Statistical Methods-I
Semester IV Paper VII	Probability Distributions-II	Semester IV DSC – 7D STATISTICS - VII	Probability Distributions-II
Semester IV Paper VIII	Statistical Methods-II	Semester IV DSC – 8D STATISTICS - VIII	Statistical Methods-II

SHIVAJI UNIVERSITY, KOLHAPUR CBCS SYLLABUS WITH EFFECT FROM JUNE 2019

B. Sc. Part-II

SUBJECT – STATISTICS -Practical

Practical: 192 hrs. Marks-100 (Credit 04)

OBJECTIVES:

By the end of the course students are expected to be able to:

- a) compute probabilities of standard probability distributions.
- b) compute the expected frequencies and test the goodness of fit.
- c) understand how to obtain random sample from standard probability distribution and sketch of the p.m.f./p.d.f. for given parameters.
- d) fit plane of multiple regression and compute multiple and partial correlation coefficients.
- e) draw random samples by various sampling methods

- f) construct various control charts.
- g) understand the applications of Poisson, Geometric and Negative Binomial distributions.

Practical – II (Credit 02)

1. Fitting of Discrete Uniform distribution.
2. Fitting of Binomial distribution.
3. Fitting of Hypergeometric distribution.
4. Fitting of Poisson distribution.
5. Fitting of Geometric distribution.
6. Fitting of Negative Binomial distribution.
7. Model sampling from Discrete Uniform distribution.
8. Model sampling from Binomial distribution.
9. Model sampling from Hypergeometric distribution.
10. Model sampling from Poisson distribution.
11. Model sampling from Geometric distribution.
12. Model sampling from Negative Binomial distribution.
13. Fitting of Continuous Uniform distribution.
14. Fitting of Exponential distribution.
15. Fitting of Normal distribution.
16. Model sampling from Continuous Uniform distribution.
17. Model sampling from Exponential distribution.
18. Model sampling from Normal distribution using: (i) Normal table and (ii) Box-Muller transformation.
19. Fitting of Binomial, Poisson & Negative Binomial distribution using MS-EXCEL.
20. Fitting of Exponential & Normal distribution using MS-EXCEL.

Practical – III (Credit 02)

1. Applications of Poisson distribution.
2. Applications of Geometric and Negative Binomial distributions.
3. Application of Exponential & Normal distribution.
4. Multiple regression.
5. Multiple correlation.
6. Partial correlation.
7. Simple random sampling.
8. Demography I (Mortality rates).
9. Demography II (Fertility and Reproduction rates).
10. Time Series. (Trend by moving average method & least square method, Seasonal indices by simple average method.)
11. Construction of R and \bar{X} charts.
12. Construction of P and C charts.
13. Large sample tests for means.
14. Large sample tests for proportions.
15. Tests for population correlation coefficients. (Using Fisher's Z transformation.)
16. Tests based on Chi-square distribution. (Test for population variance, Test for goodness of fit, Tests for independence.)
17. Tests based on t distribution. ($\mu = \mu_0, \mu_1 = \mu_2$; paired t test)
18. Tests based on F distribution. ($\sigma_1 = \sigma_2$)
19. Sketch of discrete distributions: Binomial, Poisson, Geometric and Negative Binomial distribution for various parameters using MS-EXCEL.
20. Sketch of continuous distributions: Exponential, Gamma and Beta distributions for various parameters using MS-EXCEL.

- Note:**
1. For fitting of all distributions, test of goodness of fit is necessary.
 2. For model sampling from all distributions, inverse c.d.f. transformation method has to be used in Practical - II.
 3. For experiment no.1 to 6 in Practical II, Probabilities has to be calculated by recurrence relation only.
 4. There should be at least FOUR problems in each experiment.
 5. Computer printout is to be attached to the journal for the experiment based on MS-EXCEL.
 6. Observation table and/or calculations using statistical formulae should be done by MS-EXCEL and verify by using library functions for the experiment based on MS-EXCEL.
 7. Student must complete the entire practical to the satisfaction of the teacher concerned.
 8. Student must produce the laboratory journal along with the completion certificate signed by Head of Department, at the time of practical examination.
 9. There will be study tour or case study. A report on the same has to be submitted by every student along with the journal.

Laboratory requirements:

Laboratory should be well equipped with sufficient number of electronic calculators and computers along with necessary software, printers and UPS.

Nature of Practical Question Paper of B. Sc. Part – II.

- a) Each practical paper is of 50 marks, containing four questions each of 20 marks and students has to solve any two questions. There should be one sub-question of 10 marks based on MS-EXCEL in any one of the four questions.
- b) Evaluation of question based on MS- EXCEL will be online and should be demonstrated by the student to the examiner.
- c) 5 marks are reserved for journal and 5 marks are reserved for oral in practical paper-II examination.
- d) 5 marks are reserved for journal and 5 marks are reserved for study tour report/Case study in practical paper- III examination.
- e) Practical examination is of 4 hours duration which includes oral as well as online demonstration.
- f) There should be two subject experts at the time of practical examination.

Handwritten signature
(Dr. K. G. P. D. J. S.)
22nd Jun 19

Handwritten signature
H. K. V. K. S.
12/3/2019

SHIVAJI UNIVERSITY, KOLHAPUR.



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Accredited By NAAC

(2020)

Revised Syllabus For

Bachelor of Science (Part III) Statistics

Syllabus to be implemented from June 2020 onwards

Shivaji University, Kolhapur
B. Sc. III Statistics
Structure of the course
To be implemented from June 2020
Theory

Semester V

Paper. No.	Title of the paper	Total Marks
IX	Probability Distributions	50
X	Statistical Inference - I	50
XI	Designs of Experiments	50
XII	R Programming and Quality Management	50

Semester VI

Paper. No.	Title of the paper	Total Marks
XIII	Probability Theory and Applications	50
XIV	Statistical Inference - II	50
XV	Sampling Theory	50
XVI	Operations Research	50

Practical

Paper No.	Title of the Practical	Marks for Practical	Journal	Oral	Total Marks
IV	Probability Distributions	32	4	4	40
V	Statistical Inference	32	4	4	40
VI	Designs of Experiments and Sampling Methods	32	4	4	40
VII	R Programming, Quality Management and Operations Research	32	4	4	40
	A Project Report & Viva -voce	40	-	-	40

1. Nature of Project

(i) Identification of problem where statistical techniques can be used.

(ii) Planning and execution of data collection.

(iii) The Marking system for the project work is as follows:

- Data Collection : 8 Marks
- Use of Statistical Tools : 8 Marks
- Analysis of Data : 8 Marks
- Conclusion : 8 Marks
- Viva on Project : 8 marks

(iv) Project in B.Sc. III will be conducted in a group of 5 to 6 students.

2. Nature of Question papers (Theory)

COMMON NATURE OF QUESTION FOR THEORY PAPER MENTIONED

SPERATELY:

3. Nature of practical papers :

(i) Each practical question paper must contain **Four** questions.

(ii) Each question should contain **Two** bits from different units.

(iii) Student should attempt **Any Two** questions.

(iv) Each question should carry **16** marks and to be distributed according to following points:

- (a) Aim of the Experiment : 2 Marks
- (b) Statistical formulae : 4 Marks
- (c) Observation Tables : 4 Marks
- (d) Calculations : 4 Marks
- (e) Conclusion/ result of the experiment : 2 Marks.

(v) In each practical paper, four marks are reserved for journal and four marks are reserved for oral.

4. Instructions:

(i) While attempting questions based on R-software students have to write the commands of R-software on their Answer-book. Final result should be shown to the examiner online or the printout may be attached.

(ii) Duration of each practical paper should be of four hours.

(iii) Student can use MS-Excel or electronic calculators for other practical.

5. Requirements:

(i) There should be two subject experts at the time of practical examination.

(ii) Laboratory should be well equipped with 20 scientific calculators, 20 computers, 2 printers with sufficient backup facility (UPS/ Inverter /Generator)

EQUIVALENCE FOR THEORY PAPERS

(From June 2020)

Old Syllabus		Revised Syllabus	
Paper No.	Title of the Paper	Paper No.	Title of the Paper
Sem.V / P. IX	Probability Distributions	Sem.V / P. IX DSE-E13	Probability Distributions
Sem. V / P.X	Statistical Inference - I	Sem. V / P.X DSE-E14	Statistical Inference - I
Sem. V / P XI	Design of Experiments	Sem. V / P XI DSE-E15	Design of Experiments
Sem. V / P XII	Operations Research	Sem. V / P XII DSE-E16	R Programming and Quality Management
Sem. VI / P XIII	Probability Theory	Sem. VI / P XIII DSE-F13	Probability Theory and Applications
Sem. VI / P XIV	Statistical Inference - II	Sem. VI / P XIV DSE-F14	Statistical Inference - II
Sem. V / P XV	Sampling Theory	Sem. V / P XV DSE-F15	Sampling Theory
Sem. VI / P XVI	Quality Management and Data Mining	Sem. VI / P XVI DSE-F16	Operations Research

EQUIVALENCE FOR PRACTICAL PAPERS

(From June 2020)

Old Syllabus		Revised Syllabus	
Paper No.	Title of the Practical Paper	Paper No.	Title of the Practical Paper
IV	Probability Distributions and R software	IV	Probability Distributions
V	Statistical Inference	V	Statistical Inference
VI	Design of Experiments and Sampling Methods	VI	Design of Experiments and Sampling Methods
VII	Operations Research and Quality Management	VII	R Programming, Quality Management and Operations Research

B. Sc. Part-III Semester V
SUBJECT – STATISTICS - IX
DSE-E13: Probability Distributions

Theory: 36 hours. Marks-50 (Credit 02)

Course Outcomes: The students will acquire

- a) knowledge of important univariate distributions such as Laplace, Cauchy, Lognormal, Weibull, Logistic, Pareto, Power Series Distribution.
- b) knowledge of Multinomial and Bivariate Normal Distribution.
- c) knowledge of Truncated Distributions.
- d) Information of various measures of these probability distributions.
- e) acumen to apply standard continuous probability distributions to different situations.

Unit-1: Univariate and Multivariate Probability Distributions (18 hours)

1.1: Laplace (Double Exponential) Distribution: P. d. f. with parameters (μ, λ) , Nature of the probability curve, Distribution function, quartiles, m. g. f., mean, variance, moments, $\beta_1, \beta_2, \gamma_1$ and γ_2 , Laplace distribution as the distribution of the difference of two i. i. d. exponential variates with parameter θ , examples and problems.

1.2 : Lognormal Distribution: P.d.f. with parameters (μ, σ^2) , Nature of the probability curve, mean, variance, median, mode, moments, $\beta_1, \beta_2, \gamma_1$ and γ_2 coefficients, Relation with $N(\mu, \sigma^2)$, examples and problems.

1.3: Cauchy Distribution: P. d. f. with parameters (μ, λ) , nature of the probability curve, distribution function, quartiles, non-existence of moments, additive property for two independent Cauchy variates (statement only), statement of distribution of the sample mean, relationship with uniform and Students 't' distribution, distribution of X/Y where X and Y are i. i. d. $N(0, 1)$, examples and problems.

1.4: Weibull Distribution: P. d. f. with parameters (α, β) , distribution function, quartiles, mean and variance, coefficient of variation, relation with gamma and exponential distribution, examples and problems.

1.5: Logistic distribution: P.d.f. with parameters (μ, σ) , distribution function, mean, mode, variance, skewness using mode, applications.

1.6: Pareto distribution: P.d.f. with parameters (α, β) , mean, variance, mode, skewness using mode, applications.

1.7: Power series distribution: P.m.f., mean, mode, variance, Binomial, Poisson, Geometric and Negative Binomial distribution as particular case of power series distribution.

1.8: Multinomial distribution: P.m.f, m.g.f., marginal distribution, mean, variance, covariance, variance and covariance matrix, correlation coefficient, additive property, Trinomial distribution as particular case of multinomial distribution.

Unit-2: Truncated Distributions and Bivariate Normal Distribution: (18 hours)

2.1: Truncated distribution as conditional distribution, truncation to the right, left and on both sides. Binomial distribution $B(n, p)$ left truncated at $X = 0$ (value zero not observable): p.m.f, mean, variance. Poisson distribution $P(\lambda)$, left truncated at $X = 0$ (value zero not observable): p.m.f, mean and variance. Normal distribution $N(\mu, \sigma^2)$ truncated (i) to the left below a , (ii) to the right above b , (iii) to the left below a and to the right above b , its p.d.f. and mean. Exponential distribution with parameter θ left truncated below a : p.d.f., mean and variance. Examples and problems on above distributions.

2.2: Bivariate Normal Distribution: p.d.f. of $BN(\mu_1, \mu_2, \sigma_1^2, \sigma_2^2, \rho)$, Marginal and conditional distributions, identification of parameters, conditional expectation and conditional variance, regression of Y on X and of X on Y ., independence and uncorrelated-ness imply each other, m. g. f and moments. Distribution of $aX + bY + c$, where a, b and c are real numbers. Cauchy distribution as the distribution of $Z = X/Y$ where $(X, Y) \sim BN(0, 0, \sigma_1^2, \sigma_2^2, \rho)$. Examples and problems.

Books Recommended:

1. Cramer H.: Mathematical Methods of Statistics, Asia Publishing House, Mumbai.
2. Mood, A. M., Graybill K, Bose. D. C.: Introduction to Theory of Statistics. (Third edition) Mc-Graw Hill Series.
3. Lindgren B. W.: Statistical Theory (Third Edition), Collier Macmillan International Edition, Macmillan Publishing Co. Inc. New York.
4. Hogg, R. V. and Craig A. T. : Introduction to Mathematical Statistics (Third Edition), Macmillan Publishing Company, Inc. 866, 34d Avenue, New York, 10022.
5. Sanjay Arora and Bansilal : New Mathematical Statistics (First Edition), Satya Prakashan, 16/17698, New Market, New Delhi, 5 (1989).
6. Gupta S. C and Kapoor V. K. : Fundamentals of Mathematical Statistics, Sultan Chand and Sons, 88, Daryaganj, New Delhi 2.

7. Rohatgi V. K.: An Introduction to Probability Theory and Mathematical Statistics, Wiley Eastern Ltd., New Delhi.
8. Feller. W. : An Introduction of Probability Theory and its Applications, Wiley Eastern Ltd., Mumbai.
9. Jhonson and Kotz: Continuous Univariate Distributions I and II
 - : Discrete Distributions
 - : Multivariate Distributions
10. Bhat B. R.: Modern Probability Theory. New Age International.

B. Sc. Part-III Semester V
SUBJECT – STATISTICS - X
DSE-E14: Statistical Inference-I

Theory: 36 hours. Marks-50 (Credit 02)

Unit 1: Point Estimation: (18 hours)

1.1: Introduction: Notion of a parameter, parameter space, general problem of estimation, estimating an unknown parameter by point and interval estimation.

1.2: Point estimation: Definition of an estimator (Statistic) and its Standard Error, distinction between estimator and estimate.

1.3: Properties of estimator:

1.3.1: Unbiased estimator, Biased estimator, Positive and Negative Bias, examples of unbiased and biased estimator, Proof of the results:

a) Two distinct unbiased estimators of $\Psi(\theta)$ give rise to infinitely many unbiased Estimators of $\Psi(\theta)$

b) If T is an unbiased estimator of θ then $\Psi(T)$ is an unbiased estimator of $\Psi(\theta)$ provided $\Psi(\cdot)$ is a linear function.

Sample variance is a biased estimator of the population variance. Illustrations of unbiased estimators for parameter and parametric function.

1.3.2: Relative efficiency of T_1 with respect to T_2 , where T_1 and T_2 are unbiased estimators. Use of mean square error to modify the above definition for biased estimators. Minimum Variance Unbiased Estimator (MVUE) and Uniformly Minimum Variance Unbiased Estimator (UMVUE), Uniqueness of UMVUE whenever it exists.

1.3.3: Consistency: Definition, Proof of the following:

a) Sufficient condition for consistency,

b) If T is consistent for θ and $\Psi(\cdot)$ is a continuous function, then $\Psi(T)$ is consistent for $\Psi(\theta)$.
Likelihood function: Definition of likelihood function as a function of the parameter θ based on a random sample from discrete and continuous distributions.

1.3.4: Sufficiency: Concept of sufficiency, Definition of sufficient statistic through conditional distribution of the sample given the statistics. Neyman factorization criterion, Pitman-Koopman form which admits sufficient statistic. Properties of sufficient statistic:

a) If T is sufficient for θ then $\Psi(T)$ is also sufficient for θ provided $\Psi(\cdot)$ is a **one to one** function.

b) If T is a sufficient for θ then T is sufficient for $\Psi(\theta)$.

Unit 2. Cramer Rao Inequality and Methods of estimation: (18 hours)

2.1: Fisher Information function: Definition of Information function, amount of information contained in a sample, Statement regarding equality of the information in (x_1, x_2, \dots, x_n) and in a sufficient statistic T , concept of minimal sufficient statistic with illustrations to exponential family.

2.2: Cramer Rao Inequality: Statement and proof of Cramer Rao Inequality. Definition of Minimum Variance Bound Unbiased Estimator (MVBUE) of $\Psi(\theta)$. Proof of the following results:

a) If MVBUE exists for θ then MVBUE exists for $\Psi(\theta)$, if $\Psi(\cdot)$ is a linear function.

b) If T is MVBUE for θ then T is sufficient for θ .

2.3: Methods of Estimation:

2.3.1: Method of Maximum Likelihood: Definition, Derivation of Maximum Likelihood Estimators (MLE) for parameters of standard distributions. Properties of MLE:

(i) Invariance property (With Proof),

(ii) MLE is a function of sufficient statistics,

(iii) Non-uniqueness property of MLE (With counter examples).

(iv) MLE's are asymptotically normally distributed. (Without Proof)

2.3.2: Method of Moments: Derivation of moment estimators for standard distributions. Illustrations of situations where MLE and moment estimators are distinct and their comparison using mean square error (for uniform distribution).

Books Recommended:

1. Kale B. K. : A first course in Parametric Inference
2. Rohatgi V. K.: Statistical Inference
3. Rohatgi V. K. : An introduction to Probability Theory and Mathematical Statistics
4. Saxena H. C. and Surendreran: Statistical Inference

5. Lehmann E. L.: Theory of Point Estimation
6. Dudewicz C. J. and Mishra S. N. : Modern Mathematical Statistics
7. Cassela G. and Berger R. L. Statistical Inference
8. Dixit P. G. Patil S.M. Prayag V. R. and Sunde N. J.: Inference: Theory of Estimation.
9. A. Santhakumaran: Fundamentals of Testing of Statistical Hypothesis
10. Manojkumar Srivastava, Namita Srivastava: Statistical Inference

B. Sc. Part-III Semester V
SUBJECT – STATISTICS - XI
DSE-E15: Design of Experiments

Theory: 36 hours. Marks-50 (Credit 02)

Unit 1: Simple Designs of Experiments: (18 hours)

1.1: Basic Concepts:

- i) Basic terms in design of experiments: Experimental unit, treatment, layout of an experiment.
- ii) Basic principles of design of experiments: Replication, randomization and local control.
- iii) Choice of size and shape of a plot for uniformity trials, the empirical formula for the variance per unit area of plots.

1.2: Completely Randomized Design (CRD):

- i) Application of the principles of design of experiments in CRD, layout, mathematical model assumptions and interpretations.
- ii) Estimation of parameters, Standard Error(SE), estimate of σ as square root of Mean Error Sum of Square. Expected values of mean sum of squares, components of variance.
- iii) Breakup of total sum of squares into components.
- iv) Visual inspection of treatment effects using treatment wise BOX-PLOT's
- v) Technique of one way analysis of variance (ANOVA) and its applications to CRD.
- vi) Statement of Chochran's theorem (without proof) for justification of F-test. Tests for equality for treatment effects and its interpretation. Test for equality of two specified treatment effects using Critical Difference(CD)
- vii) Model adequacy check using residual analysis.

1.3: Randomized Block Design (RBD):

- i) Application of the principles of design of experiments in RBD layout, model, assumptions and interpretations.
- ii) Estimation of parameters, expected values of mean sum of squares, components of variance

- iii) Breakup of total sum of squares into components.
- iv) Visual inspection of treatment effects, block effects using BOX-PLOT's
- v) Technique of Two way analysis of variance (ANOVA) and its applications to RBD. Residual analysis for model adequacy checking.
- vi) Related testing procedures and their interpretations, test for equality of two specified treatment effects, comparison of treatment effects using critical difference (C.D.).
- vii) Idea of missing plot technique.
- viii) Situations where missing plot technique is applicable.
- ix) Analysis of RBD with single missing observation.

1.4: Latin Square Design (LSD):

- i) Application of the principles of design of experiments in LSD layout model, assumptions and interpretations.
- ii) Breakup of total sum of squares into components.
- iii) Estimation of parameters, Standard Error(SE), expected values of mean sum of squares, components of variance. Preparation of analysis of variance (ANOVA) table.
- iv) Visual inspection of treatment effects, row and column effects using BOX-PLOT's
- v) Related tests and their interpretations, test for equality of two specified treatment effects, comparison of treatment effects using critical difference (C.D.). Residual analysis for model adequacy checking.
- vi) Analysis of LSD with single missing observation.
- vii) Identification of real life situations where CRD, RBD and LSD are used.

Unit 2: Analysis of Non-Normal Data, Efficiency and Factorial Experiments: (18 hours)

2.1: Analysis of non- normal data in CRD, RBD, LSD using

- i) Square root transformation for counts.
- ii) $\text{Sin}^{-1}(\cdot)$ transformation for proportions.
- iii) Kruskal Wallis test.

2.2: Efficiency of design:

- i) Concept and definition of efficiency of a design.
- ii) Efficiency of RBD over CRD.
- iii) Efficiency of LSD over CRD and LSD over RBD.

2.3: Factorial Experiments:

- i) General description of factorial experiments, 2^2 and 2^3 factorial experiments arranged in RBD.
- ii) Definitions of main effects and interaction effects in 2^2 and 2^3 factorial experiments.

- iii) Model assumptions and its interpretation.
- iv) Preparations of ANOVA table by Yate's procedure, test for main effects and interaction effects.
- v) General idea and purpose of confounding in factorial experiments.
- vi) Total confounding (Confounding only one interaction): ANOVA table, testing main effects and interaction effects.
- viii) Partial Confounding (Confounding only one interaction per replicate): ANOVA table. Testing main effects and interaction effects.
- ix) Construction of layout in total confounding and partial confounding in 2^3 factorial experiment.

Books Recommended:

1. Montgomery, D.C. (2001): Design and Analysis of Experiments, John Wiley and sons Inc., New Delhi.
2. Dass, M.N. and Giri, N.C. (1986) Design and Analysis of Experiments, II Edition Wiley Eastern Ltd., New Delhi
3. Snedecor, G.W. and Cochran, W.G. (1994). Statistical Methods, 8th edition, Affiliated East – West Press, New Delhi
4. Goon, A.M., Gupta, M.K. and Dasgupta, B. (1998). Fundamentals of Statistics, Vol.II, The world Press Pvt. Ltd. Kolkatta
5. Gupta S.C. and Kapoor V.K.(2006). Fundamentals of Applied Statistics, S.Chand Sons, New Delhi
6. Wu, C.F.J. and Hamda, M. (2009). Experiments, Planning, Analysis and Parameter Design Optimization, John Wiley & Sons, Inc., Hoboken, New Jersey.
7. Angel and Dean
8. Weber and Skilling.

B. Sc. Part-III Semester V

SUBJECT – STATISTICS - XII

DSE-E16: R-Programming and Quality Management

Theory: 36 hours. Marks-50 (Credit 02)

Unit-1: R Programming:

(18 hours)

1.1: Introduction:

1.1.1: Algorithm: Definition, notations, characteristics of algorithm, examples

1.1.2: Flow chart: Definition, feathers, symbols, examples

1.1.3: Introduction to R: History, feathers of R-language, Character sets, **Identifiers:** Variable, Constants, Symbolic constant, key words, Data Types and Data Structure, **Operators:** Arithmetic, relational, logical, assignment, increasing, decreasing, special operators, Character vectors, Input and output functions, Data Import and Export function, Basic built-in function

1.2: Programming: Structure of programme, **Conditional Statements:** If, if else, **Loops:** for, while, Unconditional Statements, Writing of your own functions, Diagrams and Graphs, Simple programmes on

- 1) Finding Area of circle
- 2) To check whether the given integer is positive or negative
- 3) Reverse a given number
- 4) To find greatest of three numbers
- 5) Find Prime numbers in a given range
- 6) To check if number is odd or even
- 7) To check leap year
- 8) To find sum of first n natural numbers
- 9) To Generate random numbers from discrete distributions
- 10) To Generate random numbers from continuous distributions

Unit-2: Quality Management: **(18 hours)**

2.1: Quality Tools: Meaning and dimensions of quality, quality philosophy, Magnificent tools of quality: Histogram, Check sheet, Pareto diagram, cause and effect diagram, scatter diagram, control chart, flow chart. Deming's PDCA cycle for continuous improvements and its applications.

2.2: Process Control: CUSUM chart, tabular form, use of these charts for monitoring process mean. Moving average and exponentially weighted moving average charts. Introduction to six-sigma methodology, DMAIC cycle and case studies.

2.3: Product Control: Sampling Inspection plans for attribute inspection: Concept of AQL, LTPD, Consumer's risk, producer's risk, AOQ, AOQL, OC, ASN and ATI. Description of Single and double sampling plans with determination of above constants.

Books Recommended:

1. Crawley, M. J. (2006): Statistics - An introduction using R. John Wiley, London 32
2. Purohit, S.G.; Gore, S.D. and Deshmukh, S.R. (2015): Statistics using R, second edition. Narosa Publishing House, New Delhi.

3. Shahababa, B. (2011): Biostatistics with R, Springer, New York
4. Verzani, J. (2005): Using R for Introductory Statistics, Chapman and Hall /CRC Press, New York
5. Montgomery D. C.: Introduction to quality Control
6. Duncan A. J.: Quality Control and Industrial statistics
7. E L Grant: Statistical Quality Control

B. Sc. Part-III Semester VI

SUBJECT – STATISTICS - XIII

DSE-F13: Probability Theory and Applications

Theory: 36 hours. Marks-50 (Credit 02)

Course Outcomes: The students will acquire

- a) knowledge about order statistics and associated distributions
- b) Concept of convergence and Chebychev's inequality and their uses
- c) Concept of law large numbers and central limit theorem and its uses.
- d) knowledge of terms involved in reliability theory as well as concepts and measures.

Unit-1: Order Statistics and Convergence:

(18 hours)

1.1: Order Statistics: Order statistics for a random sample of size n from a continuous distribution, Joint distribution, definition, derivation of distribution function and density function of the i^{th} order statistic, particular cases for $i=1$ and $i= n$, Derivation of joint p. d. f. of i^{th} and j^{th} order statistics , statement of distribution of the sample range, Distribution of the sample median when n is odd. Examples and problems.

1.2: Convergence and Limit Theorem: Convergence -Definition of convergence of sequence of random variables (a) in probability, (b) in distribution, (c) in quadratic mean. If $X_n \xrightarrow{P} X$ then $g(X_n) \xrightarrow{P} g(X)$ where g is continuous function without proof. Examples and problems.

1.3: Chebychev's Inequality: Chebycheve's inequality for discrete and continuous distributions. Examples.

1.4: Weak Law of Large Numbers and Central Limit Theorem: Weak law of large numbers (WLLN)- statement and proof for i. i. d. random variables with finite variance.

1.5 Central Limit Theorem: Statement and proof for i.i.d. random variables with finite variance, proof based on m. g. f., simple examples based on Bernoulli, binomial, Poisson and chi-square distribution.

Unit-2: Reliability Theory: (18 hours)

2.1: Binary System: Block diagrams, definition of binary coherent structure and illustrations. Coherent system of components at most three, (a) Series, (b) Parallel, (c) 2 out of 3: Minimal cut, minimal path representation of system.

2.2: Reliability of binary System: Reliability of systems $h(p)$, when components are independent and identically distributed with common probability p of operating.

2.3: Ageing Properties: Definitions of hazard rate, hazard function, survival function. Concept of distributions with increasing and decreasing failure rate (IFR, DFR). Relationship between survival function and hazard function, density function and hazard rate. Derivations of results: (1) Hazard rate of a series system of components having independent life times is summation of component hazard rates. (2) Life time of series system of independent components with independent IFR life times is IFR,

2.4: Examples on exponential distribution.

Books Recommended :

1. Barlow R. E. and Proschan Frank: Statistical Theory of Reliability and Life Testing. Holt Rinehart and Winston Inc., New York.
2. Cramer H.: Mathematical Methods of Statistics, Asia Publishing House, Mumbai.
3. Lindgren B. W.: Statistical Theory (Third Edition), Collier Macmillan International Edition, Macmillan Publishing Co. Inc. New York. . . .
4. Hogg, R. V. and Craig A. T. : Introduction to Mathematical Statistics (Third Edition), Macmillan Publishing Company, Inc. 866, 34d Avenue, New York, 10022.
5. Sanjay Arora and Bansilal : New Mathematical Statistics (First Edition), Satya Prakashan, 16/17698, New Market, New Delhi, 5 (1989).
6. Gupta S. C and Kapoor V. K. : Fundamentals of Mathematical Statistics, Sultan Chand and Sons, 88, Daryaganj, New Delhi 2.
7. Rohatgi V. K.: An Introduction to Probability Theory and Mathematical Statistics, Wiley Eastern Ltd., New Delhi.
8. Hoel, Port and Stone: Introduction to Stochastic Processes, Houghton Mifflin.
9. Feller. W. : An Introduction of Probability Theory and its Applications. Wiley Eastern Ltd.. Mumbai.
10. Bhat B. R.: Modern Probability Theory.

- 11 Ross S: Probability Theory.
- 12.Zacks S. : Introduction to Reliability Analysis, Probability Models and Statistical Methods, Springer Verlag.
13. Sinha S. K. : Reliability and Life Testing, Second Edition, Wiley Eastern Publishers, New Delhi.
- 14.Trivedi R. S. : Probability and Statistics with Reliability and Computer Science Application, Prentice – Hall of India Pvt. Ltd., New Delhi.
15. Parimal Mukhopadhyaya: An Introduction to the Theory of Probability. World Scientific Publishing.

B. Sc. Part-III Semester VI

SUBJECT – STATISTICS - XIV

DSE-F14: Statistical Inference-II

Theory: 36 hours. Marks-50 (Credit 02)

Unit 1: Interval Estimation and Parametric Tests:

(18 hours)

1.1: Interval Estimation:

1.1.1: Notion of interval estimation, Definition of confidence interval, length of confidence interval, confidence bounds. Definition of pivotal quantity and its use in obtaining confidence intervals and bounds.

1.1.2: Interval estimation for the following cases:

- i) Mean μ of normal distribution (σ known and unknown)
- ii) Variance σ^2 of normal distribution (μ known and unknown)
- iii) Difference between two means ($\mu_1 - \mu_2$)
 - a. For a sample from bi-variate normal population
 - b. For samples from two independent normal populations.
- iv) Ratio of variances for samples from two independent normal populations.
- v) Mean of exponential distribution
- vi) Population proportion and difference of two population proportions
- vii) Population median (using order statistics and limiting distribution of median).

1.2: Parametric tests:

1.2.1: Statistical hypothesis, problems of testing of hypothesis, definitions and illustrations of

(i) simple hypothesis (ii) composite hypothesis, critical region, Type I and Type II error,

probabilities of type I and Type II errors. Power of a test, p-value, size of a test, level of significance, problem of controlling probabilities of type I and Type II errors.

1.2.2: Definition of Most Powerful (MP) test. Statement and proof (sufficient part) of Neyman- Pearson (NP) lemma for simple null hypothesis against simple alternative hypothesis for construction of MP test. Examples of construction of MP test of level α .

1.2.3: Power function of a test, power curve, definition of Uniformly Most Powerful (UMP) level α test, Use of NP lemma for constructing UMP level α test for one-sided alternative. Computation of powers for standard probability distributions.

1.2.4: Likelihood Ratio (LR) Test: Procedure of LR test, statement of its properties, LR test involving mean and variance of normal population for two sided alternative hypothesis only. (i.e. $H_0: \mu = \mu_0$ v/s $H_1: \mu \neq \mu_0$ and $H_0: \sigma^2 = \sigma_0^2$ v/s $H_1: \sigma^2 \neq \sigma_0^2$)

Unit 2. SPRT and Non-parametric Tests: (18 hours)

2.1: Sequential Test: General theory of sequential analysis and its comparison with fixed sample procedure. Wald's SPRT of strength (α, β) for simple null hypothesis against simple alternative hypothesis. Illustrations for binomial, Poisson, exponential and normal distributions, Graphical and tabular procedure for carrying out the test.

2.2: Non-parametric tests: Notion of non-parametric statistical inference (test) and its comparison with parametric statistical inference. Concept of distribution free statistic. Test procedure of:

- i) Run test for randomness and run test for equality of distributions.
- ii) Sign test for one sample and two sample paired observations
- iii) Wilcoxon's signed rank test for one sample and two samples paired observations
- iv) Mann-Whitney U-test (Two independent samples)
- v) Median test
- vi) Kolmogorov Smirnov test for one and two independent samples.

Books Recommended:

1. Kale B. K. : A first course in Parametric Inference
2. Rohatgi V. K.: Statistical Inference
3. Rohatgi V. K. : An introduction to Probability Theory and Mathematical Statistics
4. Saxena H. C. and Surendraran: Statistical Inference
5. Lehmann E. L.: Theory of Point Estimation
6. Dudewicz C. J. and Mishra S. N. : Modern Mathematical Statistics
7. Cassela G. and Berger R. L. Statistical Inference
8. Gibbons J. D.: Non-parametric Statistical Inference

9. Doniel : Applied Non-parametric Statistics
10. Siegel S. : Non-parametric Methods for the behavioral sciences.
11. Kunte S, Purohit S. G and Wanjale S.K: Lecture notes on Non-parametric Tests.
12. Dixit P. G. Patil S.M. Prayag V. R. and Sunbandh N. J.: Inference: Theory of Estimation.
13. Bhuyan K. C.: Probability Distribution Theory and Statistical Inference
14. A. Santhakumaran: Fundamentals of Testing of Statistical Hypothesis
15. Manojkumar Srivastava, Namita Srivastava: Statistical Inference

B. Sc. Part-III Semester V
SUBJECT – STATISTICS - IX

DSE-F15: Sampling Theory

Theory: 36 hours. Marks-50 (Credit 02)

Unit- 1 : Simple and Stratified Random Sampling: (18 hours)

1.1: Simple Random Sampling:

- i) Revision of Simple random sampling, Procedure of drawing SRSWOR and SRSWR using (a) random number table (b) software.
- ii) Sample mean (\bar{y}) as an estimator of population mean, derivation of its expectation, standard error and estimator of standard error under SRSWOR and SRSWR
- iii) $N\bar{y}$ as an estimator of population total, derivation of its expectation, standard error and estimator of standard error under SRSWOR and SRSWR
- iv) Sampling of dichotomous attributes. Estimation of population proportion, Sample proportion (p) as an estimator of population proportion (P), derivation of its expectation, standard error using (SRSWOR). Np as an estimator of total number of units in the population possessing the attribute of interest, derivation of its expectation, standard error and estimator of standard error.

1.2: Determination of the sample size:

Determination of the sample size (n) under SRSWOR for variables and attributes given

- i) Margin of error and confidence coefficient.
- ii) Coefficient of variation of the estimator and confidence coefficient.

1.3: Stratified Sampling:

- i) Real life situations where stratification is appropriate.
- ii) Procedure of drawing stratified sample using (a) random number table (b) software given the sampling frame.

iii) Description of stratified sampling method where sample is drawn from individual stratum using SRSWOR method.

(a) \bar{y}_{st} as an estimator of population mean \bar{Y} , derivation of its expectation, standard error and estimator of standard error.

(b) $N\bar{y}$ as an estimator of population total, derivation of its expectation, standard error and estimator of standard error.

iv) Problem of allocation: Proportional allocation, Neyman's allocation and optimum allocation, derivation of the expressions for the standard errors of the above estimators when these allocations are used.

v) Comparison amongst SRSWOR, stratification with proportional allocation and stratification with optimum allocation. Gain in precision due to stratification.

vi) Cost and variance analysis in stratified random sampling, minimization of variance for fixed cost, minimization of cost for fixed variance, optimum allocation as a particular case of optimization in cost and variance analysis.

Unit 2: Other Sampling Methods:

(18 hours)

2.1: Systematic Sampling:

i) Real life situations where systematic sampling is appropriate. Techniques of drawing a sample using systematic sampling (when the population size is multiple of sample size).

ii) Estimation of the population mean and population total, standard error of these estimators.

iii) Comparison of systematic sampling with SRSWOR.

iv) Comparison of systematic sampling with SRSWOR and stratified sampling in the presence of linear trend.

v) Idea of Circular Systematic Sampling.

2.2: Cluster Sampling:

i) Real life situations where cluster sampling is appropriate. Techniques of drawing a sample using cluster sampling.

ii) Estimation of the population mean and population total (with equal size clusters), standard error of these estimators.

iii) Systematic sampling as a particular case of cluster sampling.

2.3: Two stage and Multi stage sampling: Idea of two stage and multistage sampling.

2.4: Ratio Method:

i) Concept and rationale of auxiliary variable and its use in estimation

ii) Situations where Ratio method is appropriate.

iii) Ratio estimators of the population mean and population total and their standard errors (without derivations), estimators of these standard errors.

iv) Relative efficiency of ratio estimators with that of SRSWOR.

2.5: Regression Method:

i) Situations where Regression method is appropriate.

ii) Regression estimators of the population mean and population total and their standard errors (without derivations), estimators of these standard errors.

iii) Comments regarding bias in estimation.

iv) Relative efficiency of regression estimators with that of a) SRSWOR b) Ratio estimator.

2.6: Case Study: Study of surveys illustrating the above ideas. Rounds conducted by NSSO.

Books Recommended:

1. Cochran, W.G: Sampling Techniques, Wiley Eastern Ltd., New Delhi.

2. Sukhatme, P.V. and Sukhatme, B.V. : Sampling Theory of Surveys with Applications, Indian Society of Agricultural Statistics, New Delhi.

3. Des Raj : Sampling Theory.

4. Daroga Singh and Choudhary F.S.; Theory and Analysis of Sample Survey Designs, Wiley Eastern Ltd., New Delhi.

5. Murthy, M.N: Sampling Methods, Indian Statistical Institute, Kolkata.

6. Parimal Mukhopadhyay (2008): Sampling theory and methods of survey sampling , Prentice Hall of India.

B. Sc. Part-III Semester V

SUBJECT – STATISTICS - XVI

DSE-F16: Operations Research

Theory: 36 hours. Marks-50 (Credit 02)

Unit-1:

(18 hours)

1.1: Linear programming: Basic concepts, Statement of the Linear Programming Problem (LPP), formulation of problem as L.P. problem. Definition of (i) a slack variable, (ii) a surplus variable, L.P. problem in (i) canonical form, (ii) standard form. Definition of (i) a solution, (ii) a feasible solution, (iii) basic variable and non-basic variable, (iv) a basic feasible solution, (v) a degenerate and a non-degenerate solution, (vi) an optimal solution, Solution of L.P.P.: i. Graphical Method: Solution space, obtaining an optimal solution, unique and non-unique

optimal solutions, ii. Simplex Method: (a) Initial basic feasible solution (IBFS) is readily available: obtaining an IBFS, criteria for deciding whether obtained solution is optimal, criteria for unbounded solution, more than one optimal solutions (b) IBFS not readily available: introduction of artificial variable, Big-M method, modified objective function, modifications and applications of simplex method to L.P.P., criterion for no solution, Duality Theory: Writing dual of a primal problem, solution of L.P.P. with artificial variable, Examples and problems.

1.2: Transportation, and Assignment Problems: Transportation problem (T.P.): statement, balanced and unbalanced T. P., Methods of obtaining initial basic feasible solution of T.P. (a) North West corner rule (b) Method of matrix minima (least cost method), (c) Vogel's approximation (VAM)., MODI method of obtaining Optimal solution of T. P, uniqueness and non-uniqueness of optimal solutions, degenerate solution, examples and problems.

Assignment Problem: Statement, balanced and unbalanced assignment problem, relation with T.P, optimal solution of an assignment problem using Hungarian method, examples and problems.

Sequencing Problem: Introduction, Statement of problem, Procedure of processing n jobs on two machines, Procedure of processing n jobs on three machines and m machines. Computations of elapsed time and idle times, examples and problems.

Unit-2: (18 hours)

2.1: Queuing Theory: Introduction, essential features of queuing system, input source, queue configuration, queue discipline, service mechanism, Operating characteristics of queuing system, transient-state and steady state, queue length, general relationship among system characteristics.

Probability distribution in queuing system: Distribution of arrival, distribution of inter arrival time, distribution of departure and distribution of service time (Derivations are not expected), Types of queuing models, Solution of queuing Model: M/M/1, using FCFS queue discipline. Problems and examples.

2.2: Simulation Techniques: Meaning of simulation, Monte Carlo simulation, advantages and disadvantages of simulation, definition and properties of random numbers, generation of pseudo random numbers, Techniques of generating random numbers from uniform distribution, Tests for randomness and uniformity distribution, random variate generation using inverse cdf method, random variate generation from Bernoulli, Binomial, Poisson, Geometric, Exponential and normal distributions.

Book Recommended:

1. Gass E.: Linear Programming Method and Applications, Narosa Publishing House, New Delhi.
2. Shrinath L. S.: Linear Programming.
3. Taha H. A.: Operation research – An Introduction, Fifth Edition, Prentice Hall of India, New Delhi.
4. Saceini, Yaspan, Friedman: Operations Research Method and Problems, Wiley International Edition.
5. Shrinath, L. S.: Linear Programming, Affiliated East-West Press Pvt. Ltd., New Delhi.
6. Phillips, D. T., Ravindra, A., Solberg, J.: Operations Research Principles and Practice, John Wiley and Sons Inc.
7. Sharma, J. K.: Mathematical Models in Operations Research, Tau McGraw Hill Publishing Company Ltd., New Delhi.
8. Kapoor, V. K.; Operations Research, Sultan Chand and Sons, New Delhi.
9. Gupta, P. K. and Hira, D. S.: Operations Research, S. Chand and Company Ltd., New Delhi.
10. Luc Devroye: Non-Uniform Random Variate Generation, Springer – Verlag, New York.
11. Gentle, J. E.: Random Number Generation and Monte Carlo Methods, Springer- Verlag.
12. Robert, C. P. and Casella, G.: Monte Carlo Statistical methods, Springer-Verlag.
13. Rubinstien, R. Y.: Simulation and Monte Carlo Method, John Wiley, New York.

B.Sc. III (Statistics)

Practical IV

Probability Distributions

1. Model sampling from Laplace and Cauchy distributions.
2. Model sampling from log-normal and Weibull distributions.
3. Model sampling from logistic distribution.
4. Model sampling from Pareto distribution.
5. Model sampling from truncated binomial and Poisson distributions.
6. Model sampling from truncated normal and exponential distributions.
7. Model sampling from bivariate normal distribution.
8. Fitting of log-normal distribution.
9. Fitting of Weibull distribution.
10. Fitting of logistic distribution.
11. Fitting of Pareto distribution.
12. Fitting of truncated binomial distribution.

13. Fitting of truncated Poisson distribution.
14. Applications of multinomial distribution.
15. Applications of bivariate normal distribution.

Practical-V

Statistical Inference

1. Point estimation by Method of Moment for Discrete Distributions.
2. Point estimation by Method of Moment for Continuous Distributions.
3. Point estimation by Method of Maximum Likelihood (for one parameters).
4. Point estimation by Method of Maximum Likelihood (for two parameters).
5. Interval estimation of location and scale parameters of normal distribution (Single Sample).
6. Interval estimation of difference of location and ratio of scale parameters of normal distributions (Two sample).
7. Interval estimation for population proportion and difference between two population proportions.
8. Interval estimation for population median (using order statistics and limiting distribution of median).
9. Construction of MP test.
10. Construction of UMP test.
11. Construction of SPRT for Binomial, Poisson distributions, graphical representation of procedure.
12. Construction of SPRT for exponential and normal distributions, graphical representation of procedure.
13. Non-Parametric Tests-I : Run test, Sign test and Wilcoxon signed Rank test
14. Non-Parametric Test-II : Mann-whitney U-test for two independent samples and Median Test for two large independent samples
15. Non-Parametric Tests-III: Kolmogorov-Smirnov Test for one and two independent samples.

Practical VI

Design of Experiments and Sampling Methods

1. Analysis of CRD and RBD, Efficiency of RBD over CRD.
2. Analysis of LSD and efficiency of LSD over CRD and RBD.
3. Missing plot technique for RBD and LSD with single missing observations.
4. Analysis of Variance for non-normal data. (CRD, RBD, LSD)
5. Kruskal-Walli's test for non-normal data(CRD,RBD,LSD)

6. Analysis of 2^2 and 2^3 factorial experiment.
7. Partial and total confounding
8. Simple Random Sampling for (i) Variables (ii) Attributes.
9. Determination of sample size in SRS for (i) Variables (ii) Attributes.
10. Stratified Random Sampling-I
11. Stratified Random Sampling-II
12. Ratio method of estimation
13. Regression method of estimation
14. Systematic Sampling
15. Cluster Sampling.

PRACTICAL PAPER VII

R- Programming, Quality Management and Operations Research

1. Data input/output - Creation of vector using commands: c , rep , seq , scan
 - Creation of data frame using commands: data frame, edit
 - Arithmetic operation on vectors.
2. Diagrammatic representation of data- Simple bar diagram, subdivided bar diagram, pie diagram.
3. Graphical representation of data- Histogram, frequency polygon, Ogive curves.
4. R- Program –I (Measures of Central Tendency and Dispersion).
5. Simulation I using R (Discrete distribution).
6. Simulation II using R (Continuous distribution).
7. Linear Programming Problem.
8. Transformation problem.
9. Assignment problem.
10. Sequencing Problem.
11. EWMA Chart.
12. CUSUM chart.
13. Six sigma limits for mean.
14. Single sampling plan.
15. Double sampling plan.

SHIVAJI UNIVERSITY, KOLHAPUR



Accredited By NAAC with 'A++' Grade
CHOICE BASED CREDIT SYSTEM

Syllabus For

B. A. Part - I

Science, Technology and Development (S.T.D.)

(Syllabus to be implemented from June, 2022 onwards)

Shivaji University, Kolhapur

PROGRAM /COURSE STRUCTURE and SYLLABUS

as per the Choice Based Credit System (CBCS) designed in accordance with

Learning Outcomes-Based Curriculum Framework (LOCF)

of National Education Policy (NEP) 2020

for B. A. Part - I Degree (Basic/Honours)

w.e.f. Academic Year 2022-23 and onwards

PREAMBLE

This paper is specially designed to cater to foundation building of the students by imparting knowledge about the science, technology and development. STD students of B. A. Part-I can better understand all latest concepts in Science, Technology and Development in brief but in adequate manner. The objective of this course is to introduce the latest concepts in Science, Technology and Development, specifically fundamental concepts in scientific thinking, contribution of eminent scientists, non-conventional power resources of India, human health, disaster management, communication and information technology, space and ocean research, defense and agriculture.

ELIGIBILITY FOR ADMISSION

Candidates who have passed any PUC Science, Commerce, Arts examinations in Maharashtra State or any other States in India with equal qualifications are eligible for admission to the course.

DURATION OF THE COURSE

The duration of the B.A./B.Sc. Geography Program shall extend over 8 semesters (four academic years) of 16 weeks or more, each with a maximum of 90 actual working days of instruction in each semester.

MEDIUM OF INSTRUCTION:

The medium of instruction shall be Marathi and English.

PROGRAM OUTCOMES

GENERAL OBJECTIVES OF THE COURSE

1) To study the fundamental concepts of science, technology and development.

- 2) To study the contribution of eminent scientist in the development of science and technology.
- 3) To study non-conventional power resources of India.
- 4) To study impact of science and technology on human health.
- 5) To study various types of disasters and its management.
- 6) To study means of communication and information technology.
- 7) To study science technology in space and ocean research.
- 8) To study space technology in India's defence and agriculture.

COURSE OUTCOMES

- 1) Student should be able to understand in-depth about the concepts of science, technology and development.
- 2) Students should be able to understand contribution of eminent scientists in the development of science and technology.
- 3) Students should be able to study non-conventional power resources in the country.
- 4) Students should understand impact of science and technology on human health.
- 5) Students should understand types of disasters and its management.
- 6) Students should understand means of communication and information technology.
- 7) Students should be able to understand science technology in space and ocean research.
- 8) Students should understand technology in India's defence and agriculture.

SCHEME OF EXAMINATION:-

- The examination shall be conducted at the end of each term for semester pattern.
- The Theory paper shall carry 40 marks (as applicable to the course)
- The Theory paper shall carry internal 10 marks (as applicable to the course)
- The evaluation of the performance of the students in theory papers shall be on the basis of Semester Examination of 50 marks.
- Question Paper will be set in the view of the /in accordance with the entire Syllabus and preferably covering each unit of syllabi.

Continuous Evaluation Methods (40 Marks):

Q. 1: Multiple Choose Question (05)

Q. 2: Write short notes (any three) (15)

Q. 3: Write detail answers on any two (20)

Internal Evaluation 10 Mark

B.A.-I Semester-I - Home Assignment / Unit Test / Case Study

B.A.-I Semester-II – Home Assignment / Unit Test / Case Study

**Generic Elective for B. A. Part – I Semester I
Science Technology and Development (STD)
(THEORY)**

Title of the Course: Science, Technology and Development

Code: CGE-1B

Number of Theory Credits	Number of lecture hours/ semester	Number of Theory Classes per week
04	60	04

Semester – I

	No. of Lectures	Credits
Module – I Introduction to Science and Technology	15	01
1.1 Science and Technology: Definitions, Nature, Scope		
1.2 Fundamental Concepts in Scientific Thinking		
1.3 Stages in the Study of Science Observation, Experiment, Analysis, Result and Hypothesis.		
1.4 Science and Superstitions		
1.5 Development of Science and Technology		
1.6 Impact of Science and Technology on Society		
Module - II Contribution of Eminent Scientist in the Development of Science and Technology	15	01
2.1 Louis Pasteur		
2.2 Albert Einstein		
2.3 Thomas Alva Edison		
2.4 Dr. Homi Bhabha		
2.5 Dr. M.S. Swaminathan		
2.6 Dr. A.P.J. Abdul Kalam		
Module – III Non-Conventional Power Resources of India	15	01
3.1 Resource: Concept and Importance		
3.2 Types of Power Resource		
3.3 Non-Conventional Power Resources		
3.3.1 Solar Energy		
3.3.2 Wind Energy		
3.3.3 Hydel Power Energy		
3.3.4 Nuclear Energy		

3.3.5 Bio Energy

3.3.6 Geo-Thermal Energy

3.3.7 Tidal Energy

3.4 Carbon Credit

Module – IV Science, Technology and Human Health

15

01

4.1 Impact of Science and Technology on Human Health

4.2 Human Blood – Blood Groups, Importance of Matching Blood Groups in Human Health

4.3 Addiction a Social Problem, types, Causes, Effects and Solution

4.4 AIDS – A Challenge before World, Facts, Figures, Causes, Effects, Treatment, Social Outlook.

4.5 Need of Cleanliness: Swachh Bharat Abhiyan

Reference Books

1. Annual Review of Information Science and Technology (ARIST) 39. By Blaise Cronin, Information Today, 2004.
3. Encyclopedia of Computer Science and Technology (Facts on File Science Library) – Import, 15 Jan 2009
4. Encyclopedia of Space Science and Technology, Wiley Online Library.
5. Indian Ocean Research Volumes: Geopolitical Orientations, Regionalism and Security in the Indian Ocean (Routledge Revivals), Dennis Rumley, Sanjay Chaturvedi (Editor) 2015
6. Disaster Management in India, Kadambari Sharma and Chiranjeev Avinash, Jnanda Prakashan, 2010.
7. Bagila A.V. (Ed) Science and Society, Lavani Publication House, 1972.
8. Bose D.M (Ed), A Concise History Science in India, Indian National Science Academy, 1971.
9. Butle J.A.V, Science and Human Life, Pergamon Press, London. (Year)
10. Encyclopaedia Britannica.
11. Flower W.S, The Development of Scientific Method, Pergamon Press, London, 1962.

मराठी पुस्तके

1. विज्ञानाचा समाज धारणेवरील परिणाम - दीक्षित कमलाकर, समाज प्रबोधन संस्था
2. शास्त्रीय विचार पद्धती - अ.भि. शहा, समाज प्रबोधन संस्था
3. जीवनाभिमुख विज्ञान - शिवाजी विद्यापीठ प्रकाशन
4. वैज्ञानिक अभ्यासाची गाथा - शिवाजी विद्यापीठ प्रकाशन
5. विज्ञान, तंत्रज्ञान आणि प्रगती - डॉ.पवार जयसिंगराव, प्रा. सूर्यवंशी निशांत फडके प्रकाशन कोल्हापूर
6. विज्ञान, तंत्रज्ञान आणि प्रगती - प्रा. पाटील हरिश्चंद्र, प्रा. घस्ते अनिल , प्रा. पाटील अरुण, प्रा. माने देशमुख रामराजे, निराली प्रकाशन, पुणे
7. मराठी विश्वकोश

Websites:

e-PG Pathshala: <https://epgp.inflibnet.ac.in/>

MOOCS - NPTEL: <https://nptel.ac.in/>

MOOCS - SWAYAM: <https://swayam.gov.in/>

National Digital Library of India: <https://ndl.iitkgp.ac.in/>

Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>

**Generic Elective for B. A. Part – I Semester II
Science Technology and Development (STD)
(THEORY)**

Title of the Course: Science, Technology and Development

Code: CGE-2B

Number of Theory Credits	Number of lecture hours/ semester	Number of Theory Classes per week
04	60	04

Semester – II

Module - I Disaster Management 15 01

- 1.1 Disaster: Concept and Types
- 1.2 Earthquake 1.3 Flood
- 1.4 Drought 1.5 Fire
- 1.6 Accident 1.7 Crowd

Module –II Means of Communication and Information Technology 15 01

- 2.1 A Brief History of Communication
- 2.2 Origin, Development and Importance of Computer 2.3 Computer Network
- 2.4 Internet
- 2.5 Computer Viruses
- 2.6 Information Technology

Module – III Science Technology in Space and Ocean Research 15 01

- 3.1 Artificial Satellite – Types and Usages
- 3.2 Indian Space Research Organisation
- 3.3 Introduction of: a) Geographical Information System (GIS)
b) Global Navigation Satellite System (GNSS)
- 3.4 Importance of Ocean Study
- 3.5 National Institute of Oceanography

Module – IV Science Technology in India’s Defence and Agriculture 15 01

- 4.1 Science Technology in National Defence
- 4.2 Defence Research and Development Organization (DRDO)

4.3 New Technology in Irrigation System

4.4 Chemical and Bio Fertilizers

4.5 Modern equipment's in agriculture

4.6 Plant Protection Methods

Reference Books

1. Annual Review of Information Science and Technology (ARIST) 39. By Blaise Cronin, Information Today, 2004.
3. Encyclopedia of Computer Science and Technology (Facts on File Science Library) – Import, 15 Jan 2009
4. Encyclopedia of Space Science and Technology, Wiley Online Library.
5. Indian Ocean Research Volumes: Geopolitical Orientations, Regionalism and Security in the Indian Ocean (Routledge Revivals), Dennis Rumley, Sanjay Chaturvedi (Editor) 2015
6. Disaster Management in India, Kadambari Sharma and Chiranjeev Avinash, Jnanda Prakashan, 2010.
7. Bagila A.V. (Ed) Science and Society, Lavani Publication House, 1972.
8. Bose D.M (Ed), A Concise History Science in India, Indian National Science Academy, 1971.
9. Butle J.A.V, Science and Human Life, Pergamon Press, London. (Year)
10. Encyclopaedia Britannica.
11. Flower W.S, The Development of Scientific Method, Pergamon Press, London, 1962.

मराठी पुस्तके

1. विज्ञानाचा समाज धारणेवरील परिणाम - दीक्षित कमलाकर, समाज प्रबोधन संस्था
2. शास्त्रीय विचार पद्धती - अ.भि. शहा, समाज प्रबोधन संस्था
3. जीवनाभिमुख विज्ञान - शिवाजी विद्यापीठ प्रकाशन
4. वैज्ञानिक अभ्यासाची गाथा - शिवाजी विद्यापीठ प्रकाशन

5. विज्ञान, तंत्रज्ञान आणि प्रगती - डॉ.पवार जयसिंगराव, प्रा. सूर्यवंशी निशांत
फडके प्रकाशन कोल्हापूर
6. विज्ञान, तंत्रज्ञान आणि प्रगती - प्रा. पाटील हरिश्चंद्र, प्रा. घस्ते अनिल , प्रा.
पाटील अरुण, प्रा. माने देशमुख रामराजे, निराली प्रकाशन, पुणे
7. मराठी विश्वकोश

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National Digital Library of India: <https://ndl.iitkgp.ac.in/>

Shivaji University Library (E-Resources): <http://www.unishivaji.ac.in/library/E-Resources>



SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA
PHONE : EPABX-2609000 website- www.unishivaji.ac.in
FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094
शिवजी विद्यापीठ, कोल्हापूर – 416004.
दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref./SU/BOS/Com & Mgmt./ 6032

Date : 17/06/2019

To,

The Principal
All Affiliated (Commerce & Management) College/Institutions,
Shivaji University, Kolhapur

Subject : Regarding syllabi and equivalence of B. Com. Part-II (Sem. III & IV)
Choice Based Credit System (CBCS) degree programme under the
Faculty of Commerce & Management.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi and equivalence of B. Com. Part-II (Sem. III & IV) Choice Based Credit System (CBCS) under the Faculty of Commerce & Management.

This syllabi and equivalence shall be implemented from the academic year 2019-2020 (i.e. from June, 2019) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October / November 2019 & March / April, 2020. These chances are available for repeater students, if any.

For Students of Distance Education this syllabi shall be implemented from the academic year 2020-2021 (i.e. from June, 2020) onwards

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dr. Registrar

Encl : As above

Copy to,

1. I/c Dean, Faculty of Commerce & Management
 2. Chairman, BOS under Faculty of Commerce & Management
 3. Director, BOEE
 4. Appointment Section
 5. P. G. Admission Section
 6. B. Com. Section
 7. Affiliation Section (U.G./P.G.)
 8. Computer Center/I.T.
 9. Eligibility Section
 10. Distance Education
 11. P.G. Seminar Section
- for information
- for information and necessary action.

SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

Faculty of Commerce & Management

Syllabus For

Bachelor of Commerce

B. Com. Part II

(Sem III & IV)

To be implemented from June 2019 onwards.

(Subject to the modifications that will be made from time to time)

Shivaji University, Kolhapur
B.Com (CBCS) Part-II (Semester-III)
Corporate Accounting Paper - I
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of issue and forfeiture of shares and re-issue of forfeited shares, discuss accounting treatment for redemption of preference shares and buyback of shares.
2. Demonstrate accounting for issue of debentures and redemption of debentures.
3. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013.
4. Practice the fundamental accounting process on Tally ERP.

Syllabus Contents

Unit I: Issue and forfeiture of shares, Re-issue of forfeited shares, Redemption of preference shares and Buyback of shares. (15 Periods)

Unit II: Issue and Redemption of Debentures (10 Periods)

Unit III: Preparation of Final Accounts of Companies. (15 Periods)

Unit IV: Practical of Fundamental Computerised Accounting (20 Periods)

- a) Introduction to Tally ERP.9, Technological Advantages, Getting Functional with Tally ERP.9, Tally ERP.9 Start-up, Mouse/Keyboard Conventions, Switching between Screen Areas, Quitting Tally ERP.9, Setting up of Company in Tally ERP.9,
- b) Create a Company- Select a Company, Alter a Company, Shut a Company, Creating Accounting Masters in Tally ERP.9, Chart of Accounts,
- c) Pre-defined Groups of Accounts, Groups- Creating Single Group, Creating Multiple Group, Displaying Group, Altering Group,
- d) Ledgers, Creating Single Ledger, Creating Multiple Ledger, Displaying Ledger, Altering Ledger, Voucher Entry in Tally ERP.9,
- e) Accounting Vouchers- Contra Voucher (F4), Payment Voucher (F5), Receipt Voucher (F6), Journal Voucher (F7), Purchase (F9), Sales (F8), Debit Note (Ctrl + F9), Credit Note (Ctrl + F8),
- f) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,
- g) Accounting Books and Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register and Day Book.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 4) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 6) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 9) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 10) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 11) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Shivaji University, Kolhapur
B.Com. (CBCS) Part-II (Semester-IV)
Corporate Accounting Paper - II
Core Course
Introduced from June-2019-20

4 Credits

Course Outcomes:

1. Explain the accounting entries of profit/loss prior to incorporation.
2. Compute the value of shares as per distinct methods and differentiate between them.
3. Simulate practice of accounting for liquidation of companies.
4. Practice the store accounting through Tally ERP.

Unit -I: Profit /Loss Prior to Incorporation. (15 Periods)

Unit-II: Valuation of shares: Intrinsic value method, Market value Method (Capitalization of profit and dividend basis) Fair value. **(10 Periods)**

Unit-III: Accounting for Liquidation of companies- Process of Liquidation under Insolvency and Bankruptcy Code, Preparation of Liquidator's Final Statement of Account. **(15 Periods)**

Unit-IV: Store Accounting with Practical using Tally. (20 Periods)

Theory:

- a) Basic Concepts of Store Accounting- Importance of Material Management and Inventory Control, Objectives of Inventory Control System, Functions and Duties of Store-keeper,
- b) Key Terms- Stock items, Category of item, Item Name, Unit of Measurement- Purchase Rate per Unit, Current Stock Quantity, Current Valuation Rate, Opening Stock Quantity, Opening Valuation Rate, Purchase Returns, Sales Returns
- c) Stock Valuation Methods- Source document, Types of Source documents, Purchase Invoice, Goods Received Note, Sales Invoice, Delivery Challan
- d) Tally Reports of Store Accounting- Bill-wise List of Stock Items, Stock Statement, Material Receipts/ Purchases Register, Material Issues/ Sales Register, Material Return Report, Slow Moving Items Report, Fast Moving Items Report.

Practical:

- a) Creating Inventory Masters in Tally.ERP 9, Stock Groups- Creating Single Stock Group, Creating Multiple Stock Group, Displaying Stock Group, Altering Stock Group,
- b) Units of Measure- Simple Units, Creating Simple Units, Displaying Units of Measure, Deleting Units of Measure
- c) Stock Items- Creating Single Stock Items, Creating Multiple Stock Items, Displaying Stock Items, Altering Stock Items,
- d) Voucher Entry in Tally.ERP 9- Purchase Voucher (F9), Sales Voucher (F8), Credit Note Voucher (Ctrl + F8), Debit Note Voucher (Ctrl + F9)
- e) Financial Statements- Balance Sheet, Profit & Loss A/c., Trial Balance,

- f) Accounting Books & Registers- Cash Book, Bank Book, Purchase Register, Sales Register, Journal Register, Debit Note Register, Credit Note Register, Day Book, Statistics,
- g) Inventory Books & Reports- Stock Summary, Stock Item Summary, Stock Group Summary, Exception Reports- Negative Stock, Negative Summary.

Notes:

- 1) College should make a provision of necessary computers and accounting software for commerce department to train the students in Computerised Accounting as prescribed in the syllabus.
- 2) A visit should be arranged for increasing awareness of students regarding Corporate Accounting either in any Company Office or the Office of any Chartered Accountant/ Professional Accountant.

Reference Books:-

- 12) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S. (2019). Advanced Corporate Accounting, New Delhi: S. Chand & Company.
- 13) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, New Delhi: S. Chand & Company.
- 14) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Mumbai: Himalaya Publishing House.
- 15) Gupta, R. L. and Radhaswamy, M. (2018). Advanced Accountancy Vol. II, New Delhi: Sultan Chand and Sons.
- 16) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018). Corporate Accounting. New Delhi: Vikas Publication House.
- 17) Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts, New Delhi: S.Chand and Co.
- 18) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, New Delhi: Kalyani Publishers.
- 19) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, Noida: McGraw Hill Education India (Private) Ltd.
- 20) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 21) Chougule, Rajan (2011). Computerized Accounting, Kolhapur.
- 22) Tulsian, P. C. and Tulsian, Bharat (2015). Corporate Accounting, New Delhi: S. Chand Publishing.

Nature of Question Paper
 B.Com. Part-II
 Under CBCS
 Subject: Corporate Accounting Paper-I (Semester-III)
 Core Course
 (Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- a) Question on Theory of Unit-1 Or Question on Theory of Unit-1 5 marks
 b) Question on Problem of Unit-1 Or Question on Problem of Unit-1 5 marks

Q.No.2 Short Answer Questions:

- a) Question on Theory of Unit-2 Or Question on Theory of Unit-2 5 marks
 b) Question on Problem of Unit-2 Or Question on Problem of Unit-2 5 marks

Q.No.3 Questions:

- a) Question on Theory of Unit-3 Or Question on Theory of Unit-3 5 marks
 b) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

- a) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Nature of Question Paper
 B.Com. Part-II
 Under CBCS
 Subject: Corporate Accounting Paper-II (Semester-IV)
 Core Course
 (Introduced from June-2019-20)

Instructions:- 1- All questions are compulsory.
 2-Figures to the right indicate marks.

Total Marks- 40

Q.No.1 Short Answer Questions:

- c) Question on Theory of Unit-1 Or Question on Theory of Unit-1 5 marks
 d) Question on Problem of Unit-1 Or Question on Problem of Unit-1 5 marks

Q.No.2 Short Answer Questions:

- c) Question on Theory of Unit-2 Or Question on Theory of Unit-2 5 marks
 d) Question on Problem of Unit-2 Or Question on Problem of Unit-2 5 marks

Q.No.3 Questions:

- c) Question on Theory of Unit-3 Or Question on Theory of Unit-3 5 marks

d) Question on Problem of Unit-3 Or Question on Problem of Unit-3 10 marks

Q.No.4 Short Answer Questions:

b) Question on Theory of Unit-4 Or Question on Theory of Unit-4 5 marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-I.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-III)
Fundamentals of Entrepreneurship- Paper-I
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To impart theoretical knowledge of Entrepreneurship
2. To develop Entrepreneurship qualities and skills
3. To acquaint students with Steps involved in the formation of Small Enterprises
4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Unit-I	Entrepreneur:- Evolution, Meaning and Definition, Functions, Qualities of successful entrepreneur, Types of Entrepreneur, Obstacles to become an Entrepreneur, Challenges before existing entrepreneur in modern era.	15 Hours
Unit-II	Entrepreneurship and Entrepreneurship Development: Concept, Definitions, Importance, Theories- Joseph Schumpeter's Theory of Innovation, Hagen's theory of Status Withdrawal, David McClelland's Need for Achievement theory, Knight's Risk Taking theory, Entrepreneurship Development- Concept and Process. Introduction, Functions and Performance of – EDI, MCED And DIC	15 Hours
Unit-III	Micro, Small and Medium Enterprises(MSME): Definition, Importance, Problems of MSME and Remedies, Government Policy and Support, Steps involved in the formation of Small Enterprises- Location, Clearances, Permits required, Formalities, Licensing and Registration Procedure.	15 Hours
Unit-IV	Recent Trends and Concepts in Entrepreneurship: Recent Trends- Start up, Stand up, Skill India, Make in India, Incubation Centre- Concept and Importance. Concepts- Sociopreneur, Edupreneur, Ecopreneur, Netpreneur, Intrapreneur(Only concept and Characteristics)	15 Hours

Shivaji University, Kolhapur
B.Com (CBCS Pattern)
Part-II (Semester-IV)
Fundamentals of Entrepreneurship- Paper-II
Generic Elective Course
Introduced from June-2019-20

Credits-4

Objectives-

1. To acquaint students with family business in India
2. To impart conceptual knowledge of Service and Agro Entrepreneurship
3. To aware students about Business Plan and Project Report
4. To inspire the students through successful stories of Entrepreneurs

Unit-I	Family Business: Meaning, Types, Advantages and Disadvantages of Family Business, Challenges before family business in India, Business Succession Planning, Making family business more effective.	15 Hours
Unit-II	Service and Agro Entrepreneurship: A) Service Entrepreneurship- Meaning and Concept, Role of Service sector in National Economy, Opportunities in Service sector. B) Agro Entrepreneurship- Meaning and Concept, Importance, Entrepreneurial Opportunities in Agro Sector, Challenges before Agro Entrepreneurship	15 Hours
Unit-III	Business Plan and Project Report: Meaning and Concept of Business Plan, Key elements of business plan. Meaning, Concept and classification of project. Project for Retail store, Beauty parlor, Oil Mill, Cold Storage, Eco friendly Bag production- Reasons for failure of project.	15 Hours
Unit-IV	Women Entrepreneurship and Successful Entrepreneurs Women Entrepreneur- Concept and causes of limited growth of women entrepreneurs in India. Successful Entrepreneurs- Male- Jeff Bezos(Amazon), Hanmantrao Gaikwad (BVG), Chitale Brothers (Chitale Dairy), Ramdas Mane (Mane Group of Industries) Female- Aditi Gupta (Whisper Girl), Chetana Gala-Sinha (Manadeshi Foundation), Vandana Luthra (VLCC),	15 Hours

Note – Industrial visit/ visit to EDP Institute is suggested to acquaint students about entrepreneurial knowledge.

A talk or interaction with entrepreneurial should be arranged.

B.Com.II
Semester III and IV (CBCS Pattern)
Fundamentals of Entrepreneurship Paper I & II
Nature of Question Paper

Instructions:**Total Marks: 50**

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Write short answers (Any two out of Three)	10 Marks
Q.2	Broad Question	10 Marks
Q.3	Broad Question	10 Marks
Q.4	Broad Question	10 Marks
Q.5	Broad Question	10 Marks
Q.6	Broad Question	10 Marks
Q.7	Write Short Notes (Any two out of Three)	10 Marks

Equivalence

Sr.No.	Old Name	New Name
1	Fundamentals of Entrepreneurship Paper - I	Fundamentals of Entrepreneurship Paper - I
2	Fundamentals of Entrepreneurship Paper - II	Fundamentals of Entrepreneurship Paper - II

Reference Books:

1. Dynamics of Entrepreneurial Development and Management- by Vasant Desai
2. Udyojakata- by Prabhakar Deshmukh
3. Entrepreneurship Development in India- by C.B. Gupta and N.P. Shrinivasan
4. Entrepreneurship and Small Business Management- by Shukla M.B.
5. Entrepreneurial Development- by Dr. S.S. Khanka
6. Entrepreneurial Development- by Godron E. and Natrajan K.
7. Entrepreneurial Development- by Taneja Satish and Gupta S.L.
8. Current Trends in Entrepreneurship - by Mohan S. Elangovan R.
9. Project Preparation Appraisal, Implementation- by Prasanna Chandra
10. Formulation of a Project Report- by Vinod Gupta

Shivaji University, Kolhapur

Syllabus of B.Com

(Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM III

Money and Financial System (Paper No – 1)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Learners will be able to explain functions of money and measurement of money supply 2. Learners will understand the banking system and its functioning in India 3. Learners will understand the nature of banking business and business practices 4. Learners will understand the important recent trends in banking system 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Ability to explain monetary system in India 2. Ability to critical thinking on banking business 3. Ability to explain recent trends in Indian Banking 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	Introduction to Money 1.1 Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Blockchain Technology and Digital Currency 1.3 Approaches to the Money supply, RBI's Measures 1.4 Constituents and Factors affecting on Money Supply	13 Lectures
Unit-2:	Introduction to Banking 2.1. Meaning, Evolution and Functions of Commercial Banks 2.2. Types and features of banks - Commercial, Cooperative, Public and Private, Foreign, Payment Banks, Small Finance Banks, Local Area Banks etc 2.3. Principles of Banking Business and its importance 2.4. Process of Credit Creation and Its limitations	15 Lectures
Unit-3:	Banking Business and Practices 3.1. Meaning, Types and Features of Deposits Products of Banks 3.2. Meaning, Types and Features of Loan Products of Banks 3.3. Sources of Funds and Income for Banks 3.4. Changing Nature of Banking Business	17 Lectures
Unit-4:	New Trends and Recent Issues in Indian Banking 4.1 Micro Finance Institutions- Evolution, Functions and Importance 4.2 Types, Advantages and Disadvantages of Bank Mergers 4.3 Licensing and functioning of Payment Banks Small Finance Banks 4.4 Meaning, Causes and Remedies for NPA, Prompt Correctives Action	15 Lectures
Note: Bank visits and case studies on banking business should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin (2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015), Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi. 		

EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - I)	Money and Financial System (Paper - I)

Nature of question paper for semester III and IV (Paper No. I & II)

Attempt any five questions.

Total marks 50

- | | |
|--|----|
| Q1. Write short answers (any two out of three) | 10 |
| Q2. Broad question | 10 |
| Q3. Broad question | 10 |
| Q4. Broad question | 10 |
| Q5. Broad question | 10 |
| Q6. Broad question | 10 |
| Q7. Write short notes (any two out of three) | 10 |

Shivaji University, Kolhapur
Syllabus of B.Com
 (Semester-III & IV)

Syllabus to be Introduced from June 2019

Money and Financial System

CHOICE-BASED CREDIT SYSTEM

B.Com SEM IV

Money and Financial System (Paper No – 2)

Course Outcomes:		
<ol style="list-style-type: none"> 1. Students will be able to use e-banking services 2. Students will be able explain working of RBI in India 3. Students will be able to provide consultancy and guidance for investment in financial markets 4. Students will be able to explain the business practices of NBFCs and AIFI 		
Expected Skills Impartation (Through theory and Practical's)		
<ol style="list-style-type: none"> 1. Use of E-banking services 2. Able to provide Financial consultancy 3. Critical thinking about NBFCs and their effects 		
Marks : 50	Total Lectures of Teaching : 60	Credits : 4
Unit-1:	E-Banking Services 1.1 Meaning and features of E-Banking, Various Internet Banking Services 1.2 Credit and Debit Card : Features, importance & precautions 1.3 NEFT, RTGS, IMPS & Cheque Truncation System 1.4 Mobile Banking - Features, different Mobile Apps and Importance	17 Lectures
Unit-2:	Reserve Bank of India 2.1 Organizational Structure and Functions of RBI 2.2 Meaning and Objectives Monetary Policy 2.3 Instruments of Monetary Policy 2.4 Monetary Policy Committee; Issue of RBI's Autonomy & Section-7 of RBI Act 1934	12 Lectures
Unit-3:	Financial Markets 3.1 Structure and Importance of Financial System 3.2 Features and structure of Money Market in India, Role of RBI 3.3 Features and structure of Capital Market in India, Role of SEBI 3.4 Reforms in Indian Money Market and Capital Market	17 Lectures
Unit-4:	All India Financial Institutes and NBFCs 4.1 Administrative Structure, Functions and Role of NABARD and SIDBI 4.2 Administrative Structure, Functions and Role of NHB and EXIM Bank 4.3 Meaning, Features, Types and Growth of NBFCs 4.4 Mutual Fund - Meaning, Types and Importance	15 Lectures
Note: Visits to financial institutes and financial consultancy firms should be conducted		
Suggested Additional Readings:		
<ol style="list-style-type: none"> 1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi 2. Bhasin Nitin(2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi 3. Berg Braam van den (2015),Understanding Financial Markets & Instruments, Academy of Financial Market, https://eagletraders.com/books/afm/afm4.php 4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England. 5. Gupta, L.C (1997),Stock Exchange Trading in India; Society for Capital Market Research and Development 6. Sethi Jyotsna and Bhatia Nishwan (2003),Elements of Banking and Insurance, Prentice Hall of 		

<p>India, New Delhi</p> <p>7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited</p> <p>8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.</p>
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EQUIVALENCE OF THE PAPERS

Sr	Existing title of the Paper	Revised Title of the paper
1	Money and Financial System (Paper - II)	Money and Financial System (Paper - II)

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus B.COM.
SEMESTER - III
MACRO ECONOMICS – PAPER- I
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

- 1 The macro variables and components of macro economics
- 2 The relevance of national income concepts and its applications in economic policy making.
- 3 Changing value of money and its impacts on economy.
- 4 The output and employment generation process through investment and consumption.

UNIT -1	Introduction to Macro Economics 1.1 Meaning, Nature and Scope 1.2 Significance of Macro Economics 1.3 Limitations of Macro Economics 1.4 Macro Economic Variables	15
UNIT -2	National Income 2.1 Meaning and concepts- GDP, GNP, NNP, Personal and Disposable income, Per capita Income, National income at current and constant prices. 2.2 Methods of computing National Income- Product, Income and Expenditure methods 2.3 Difficulties in computing National Income 2.4 Applications of National Income Data	15
UNIT -3	Value of Money 3.1 Concept of Value of Money 3.2 Quantity Theory of Money-, Transaction Approach, Cash Balance Approach 3.3 Inflation-Causes of Inflation, Inflation and interest rates, Social cost of Inflation, Remedies to control of inflation. 3.4 Index Number – Meaning, Construction of Simple and Weighted Index Numbers.	15
UNIT -4	Output and Employment 4.1 J.B. Say's Law of Market 4.2 Keynesian Theory of Employment 4.3 Consumption Function - Concept and Types, Factors influencing consumption function 4.4 Investment Function- Marginal Efficiency of Capital, Investment Multiplier	15

References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy,harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940),An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James,S. Business Cycles and national Income, Georg Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewtt K.K.,(2006),Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008),Macro Economics: Theory and Applocations,tata McGraw Hill Education
9. Gupta S.B.(2010),Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970),Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics,4th Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory,Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015)Finance,Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance,Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013),Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010),Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017),Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance,Jaypraksh Nath Co.
26. Vaish M.C.(2009).Monetary Policy.Vikas Publishing House New Delhi

Equivalence of the paper

Title of Old Paper	Title of New Paper
Business Economics Paper III	Macro Economics Paper I

SHIVAJI UNIVERSITY, KOLHAPUR
Syllabus
B.COM.
SEMESTER - IV
MACRO ECONOMICS – PAPER- II
(CHOICE BASED CREDIT SYSTEM – (CBCS)
Credits : 4
Introduced from June 2019

COURSE OUTCOMES:

Student will be able to explain...

1. The trade cyclical phenomenon in the economy and they will be able to take practical decisions at their business level in future.
2. Public finance system of state and its impact on economy and citizens of the nation.
3. The trade and business practices through international trade theories and other relevant concepts.
4. The international monetary exchange system and determination of rate exchange.

UNIT -1	Trade Cycles 1.1 Meaning Features and Types 1.2 Phases of Trade Cycles 1.3 Theories of Trade Cycles – Hawtrey and Schumpeter 1.4 Control of Trade Cycles	15
UNIT -2	Public Finance 2.1 Meaning, Nature and Scope, The Principle of Maximum Social Advantage 2.2 Public Revenue- Meaning, Tax Revenue-Direct and Indirect Taxes - Merits and Demerits, Concept of Goods and Service Tax (GST), Non-Tax Revenue Sources 2.3 Public Expenditure- Causes of growth and effects 2.4 Public Debt – Forms and Effects, Deficit Financing- Objectives and limitations.	15
UNIT -3	International Trade 3.1 Concept of Trade, Internal and International Trade 3.2 Advantage and Disadvantage of International Trade, Ricardian Theory of International Trade, Terms of Trade – Meaning, Types and its influencing factors. 3.3 Balance of Payments – Causes of disequilibrium, Measures to correct disequilibrium. 3.4 Concepts of Free Trade and Protective Trade	15
UNIT 4	Rate of Exchange 4.1 Concept of Rate of Exchange 4.2 Types – Fixed, Flexible , Spot and Future rate of exchange 4.3 Purchasing Power Parity Theory	15

	4..4 Modern Theory of rate of exchange	
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References –

1. Agarwal H.S. (2013), Principles of Economics, Global Professional Publishing
2. Ahuja H.L.(2010), Macro Economics Theory and Policy, S. Chand and Company.
3. Branson William H. (1997), Macro Economics Theory and Policy, harper Collins India Pvt.Ltd.
4. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
5. Duesenberry James, S. Business Cycles and national Income, Georg Allen and Union London
6. Derburg and McDougal (1976), Macro Economics, McGraw Hill Education, New York
7. Dewtt K.K.,(2006), Modern Economic Theory, S. Chand and Company.
8. Gupta G.S.(2008), Macro Economics: Theory and Applications, tata McGraw Hill Education
9. Gupta S.B.(2010), Monetary Economics, S. Chand and Company.
10. Hanson J.L. An Outline of Monetary Theory, McDonalds and Evans Ltd.London
11. Haberler Gottfried (1968) Theory of International Trade, William Hodge and Company
12. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
13. Hanson J.L.(1970), Monetary Theory and Practice, McDonalds and Evans Ltd.London
14. Hicks U.K.(1968), Public Finance, James Nisbet and Comp.London
15. Lindauer John (2012) Macro Economics, 4th Ed iUnivers Inc.Bloomington USA
16. Jingham M.L. Macro Economic Theory, Vinda Publication Pvt.Ltd.new Delhi
17. Lekhi R.K.Public ,(2015) Finance, Kalayani Publishers New Delhi
18. Mithani D.M. (2012), Money Banking International Trade and Public Finance, Himalaya Publishing House
19. Musgrave Richard,(2004), Public Finance, McGraw Hill Publication
20. Shapiro Edward (2013), Macro Economic Analysis, Galgotia Publication
21. Samuelsson Paul A. Nordhaus W.D.(2010), Macro Economics, McGraw Hill Publication
22. Schumpeter J.A.(1939), Business Cycles, McGraw Hill Publication
23. Seth M.L. (2017), Macro Economics, Laximinarayan Agarwal Publication
24. Singh S.B. Macro Economics, Vishvbharti Publication New Delhi
25. Taygi B.P. Singh H.P(2016), Public Finance, Jaypraksh Nath Co.
26. Vaish M.C.(2009). Monetary Policy. Vikas Publishing House New Delhi

Equivalence of the papers

Title of Old Paper	Title of New Paper
Business Economics Paper IV	Macro Economics Paper II

Nature of Question Paper for paper III and IV**Total Marks: 50****Attempt any five questions out of seven**

- | | |
|--|----|
| Q.1 Write short answers (Any two out of three) | 10 |
| Q.2 Broad question | 10 |

Q.3 Broad question	10
Q.4 Broad question	10
Q.5 Broad question	10
Q.6 Broad question	10
Q.7 Write short notes (Any two out of three)	10

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)
June 2019 Onwards

Course Objectives:

- To enable the students to develop communication skills in English, both oral and written.
- To equip the students with the language skills for use in their personal, academic and professional lives.
- To develop the students essential employability skills.
- To help the students to enter the job market with confidence and the ability to work effectively.
- To help the students to learn and practice both language and soft skills.
- To encourage the active involvement of students in learning process.
- To enable the students to cultivate a broad, human and cultured outlook.

CONTENTS
Semester III (Paper C)

Module I

- A) Oral Skills
- B) Phenomenal Woman – **Maya Angelou**

Module II

- A) Conversation Skills
- B) The Childless One – **Jai Nimbkar**
- C) Those Winter Sundays – **Robert Hayden**

Module III

- A) English for Competitive Examination – I
- B) Four Minutes that get you Hired
–**Connie Brown Glaser and Barbara Steinberg Smalley**

Module IV

- A) Stormy Arrival in South Africa – **Mohandas Karamchand Gandhi**
- B) The Road Not Taken – **Robert Frost**

Semester IV (Paper D)

Module V

- A) E-Communication
- B) Breathing Spaces – **Rana Nayar**

Module VI

- A) English for Competitive Examination – II
- B) My Financial Career – **Stephen Leacock**

Module VII

- A) English for Banking and Industries
- B) Senior Payroll – **William E. Barrett**

Module VIII

- A) The Verger – **Somerset Maugham**
- B) I Am the People, the Mob – **Carl Sandburg**
- C) One Day I Wrote Her Name – **Edmund Spenser**

Pattern of Question Paper

B.COM. PART II
ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
(CBCS)

ENGLISH FOR BUSINESS COMMUNICATION
(Compulsory English)

PATTERN OF QUESTION PAPER (June 2019 Onwards)

Semester III (Paper C)

Total Marks 50

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on ORAL SKILLS	Module I A	05
	B.	Question to be set on ORAL SKILLS	Module I A	04
Q.4.	A.	Question to be set on CONVERSATION SKILL	Module II A	04
	B.	Question to be set on CONVERSATION SKILL	Module II A	04
Q.5	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	05
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – I	Module III A	04

Semester IV (Paper – D)**Total Marks 50**

Que. No.	Sub. Q.	Type of Question	Based on	Marks
Q.1.	A.	Four multiple choice questions with four alternatives to be set.	Prose and poetry	04
	B.	Answer in one word/Phrase/Sentence each.	Prose and poetry	04
Q.2.	A.	Answer the following questions in 3 - 4 sentences each (3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write short notes on the following in about 7 - 8 sentences each (2 out of 3)	1 on Prose and 2 on Poetry	06
	C.	Two different Vocabulary exercises to be set for 2 marks each	Prose and poetry	04
Q.3.	A.	Question to be set on E-COMMUNICATION	Module V A	05
	B.	Question to be set on E-COMMUNICATION	Module V A	04
Q.4.	A.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
	B.	Question to be set on ENGLISH FOR COMPETITIVE EXAMINATION – II	Module VI A	04
Q.5.	A.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	05
	B.	Question to be set on ENGLISH FOR BANKING AND INDUSTRIES	Module VII A	04

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – III)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-I)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Explain the scope of statistics in business, perform classification and tabulation, and represent the data by means of simple diagrams and graphs.
2. Explain and apply sampling techniques in real life.
3. Summarize data by means of measures of central tendency and dispersion.
4. Explain the merits and demerits of various measures of central tendency and dispersion.
5. Perform analysis of bivariate data using simple correlation and simple linear regression.

Unit 1: Introduction to Statistics

(15)

- 1.1 Meaning of Statistics, Scope of Statistics in business.
- 1.2 Primary and secondary data, Discrete and continuous variables, Classification and its basis, Frequency and frequency distribution, Tabulation.
- 1.3 Diagrammatic representation: pie-chart, simple bar diagram, Graphical representation: histogram, ogive curves, Numerical problems.
- 1.4 Sampling: Definitions of population, sample, sampling, and census, Principle steps in sample survey, Advantages of sampling over census, Methods of sampling: simple random sampling (with and without replacement), stratified random sampling.

Unit 2: Measures of Central Tendency

(15)

- 2.1 Concept of central tendency, Requirements of a good average.
- 2.2 Arithmetic mean (A. M.): Definition, Properties of A. M. (without proof), Combined A. M., Merits and demerits, Numerical problems.
- 2.3 Median and quartiles: Definitions, Merits and demerits of median, Numerical problems.
- 2.4 Mode: Definition, Merits and demerits, Empirical relation among mean, median, and mode, Numerical problems.

Unit 3: Measures of Dispersion

(15)

- 3.1 Concept of dispersion, Requirements of a good measure of dispersion, Absolute and relative measures of dispersion.
- 3.2 Range, Coefficient of range, Merits and demerits of range, Numerical problems.
- 3.3 Quartile deviation (Q. D.), Coefficient of Q. D., Merits and demerits of Q. D., Numerical problems.
- 3.4 Standard deviation (S. D.), Coefficient of S. D., Coefficient of variation, Variance, Merits and demerits of S. D., Numerical problems.

Unit-4: Analysis of Bivariate Data: Correlation and Regression**(15)**

- 4.1 Concept of correlation, Types of correlation.
- 4.2 Methods of studying correlation: Scatter plot, Karl Pearson's correlation coefficient (r), Interpretation of r (with special cases $r = -1, 0,$ and 1), Spearman's Rank correlation coefficient (R), Numerical problems on computation of r and R (with and without ties) for ungrouped data.
- 4.3 Concept of regression.
- 4.4 Lines of regression, regression coefficients, relation between correlation coefficients and regression coefficient, Numerical problems on ungrouped data.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
Syllabus of B. Com. (SEM – IV)
(To be introduced from June, 2019)

BUSINESS STATISTICS (PAPER-II)

Credits-4

Course Outcomes

After completion of this course, the student will be able to

1. Compute unconditional and conditional probabilities and apply laws of probabilities.
2. Identify the applications of Binomial and normal distributions.
3. Measure trend and seasonal variations in time series data.
4. Compute and interpret simple and weighted index numbers.
5. Construct and apply variable and attribute control charts.

Unit 1: Probability and Probability Distributions (15)

- 1.1 Definitions of random experiment, sample space, event, equally likely events, mutually exclusive events, independent events, Classical definition of probability.
- 1.2 Definition of conditional probability, Addition and multiplication laws of probability (without proof), Numerical problems (without use of permutation and combination).
- 1.3 Binomial distribution: Probability mass function, Mean and variance (without proof), Simple numerical problems to find probability and parameters.
- 1.4 Normal distribution: Probability density function, Mean and variance (without proof), Properties of normal curve, Standard normal distribution, numerical problems to find probabilities for given area under standard normal curve.

Unit 2: Time Series Analysis (15)

- 2.1 Definition and uses of time series.
- 2.2 Components of time series.
- 2.3 Methods of measuring trend: method of semi-averages, method of moving averages, and method of least squares, Numerical problems.
- 2.4 Measurement of seasonal variations using simple average method, Numerical problems.

Unit 3: Index Numbers (15)

- 3.1 Need, meaning, and uses of index numbers, Applications of index numbers in share market, Price, quantity, and value index numbers.
- 3.2 Simple index numbers by simple aggregate method and simple average of relatives method (using A. M.), Numerical problems.
- 3.3 Weighted index numbers by Laspeyre's, Paasche's, and Fisher's formulae, Numerical problems.
- 3.4 Problems involved in construction of index numbers.

Unit 4: Statistical Quality Control**(15)**

- 4.1 Concept of statistical quality control (SQC), Advantages of SQC, Types of variability: chance cause variability and assignable cause variability.
- 4.2 Shewhart control chart and its construction.
- 4.3 Variable control charts: mean (\bar{X}) and range (R) charts, Numerical problems.
- 4.4 Attributes control charts: control chart for number of defectives (np -chart) for fixed sample size and control chart for number of defects per unit (c -chart), Numerical problems.

Reference Books:

1. Gupta S. P. (2018) *Statistical methods*, Sultan Chand and Sons.
2. Gupta C. B. and Gupta Vijay (2004) *An Introduction to Statistical Methods*, Vikas Publishing House Pvt Limited.
3. Desai S. S.(2017) *Business Statistics*, Jay-Gauri.
4. Kumbhojkar G. V. (2017) *Business Statistics*, Phadke Prakashan.
5. Gupta S. C. (2019) *Fundamentals of Statistics*, Himalaya Publishing House Pvt. Ltd.

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper VI
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To understand the process and procedure of the Income Tax Act, 1961
2. To impart theoretical knowledge of Income Tax
3. To acquaint students with post Assessment procedure and TDS provisions and procedure.

Unit – I	Income Tax Payment and fine of interest – a) Advance Tax b) Interest payable under section 234 ABC	10 Hours
Unit – II	Assessment Procedure – Inquiring before Assessment – Assessment U/S 143(1), Regular Assessment of U/S 143(2), Best Judgement Assessment, Income escaped Assessment, issue of notice where income has escaped assessment, Time Limit for notice, Time limit completion of Assessment, Re-assessment	20 Hours
Unit – III	Post Assessment Procedure – a) Refund – who can claim refund, form no 16 for refund, Time limit for claiming refund, refund on appeal interest refund b) Rectification of mistake c) Appeals and revisions – when an assessee can file appeal appellate authorities, procedure for filling appeal, filling appeal, Revision by Income Tax commissioner d) Penalties and Procedure – Procedure for impressing penalties, Waiver of penalty nature of default and panlties impossible.	20 Hours
Unit – IV	TDS provisions and Procedure – including TDS Tax collection of source provision and procedures.	10 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VIII
Title of Paper – INCOME TAX
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of TDS, TCS, Penalties and prosecutions
2. To develop the skills of solving practical problems of TDS and TCS
3. To acquaint students with recent terms and conditions in Income Tax

Unit – I	TDS – Scheme of tax deduction at source, deduction of tax from salaries, interest other than interest on securities, winnings from horse races, from payments to contractors or sub contractors, from insurance commission, from commission or brokerage, from income by way of rent, on purchase of immovable property and on professional fees.	20 Hours
Unit – II	TCS – Scheme of tax collection at source, applicability, persons liable to collect TCS, rates of TCS and relevant provisions.	10Hours
Unit – III	PENALTIES & PROSECUTIONS – Penalties for default in brief, penalty for concealment / under-reporting of Income, procedure for imposition of penalty and time-limit for completion of penalty proceedings.	20 Hours
Unit – IV	PRACTICAL PROBLEMS ON TDS & TCS – Problems on calculation of TDS & TCS	10 Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - Income Tax
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice Income Tax Paper VI (Vocational)	Tax Procedure and Practice Income Tax Paper VI (CBCS)
2	Tax Procedure and Practice Income Tax Paper VIII (Vocational)	Tax Procedure and Practice Income Tax Paper VIII (CBCS)

Reference Books :

1. Students guide to Income Tax - Taxman
2. Direct Tax ready reckoner - Vinod Sighaniya
3. Income Tax - P.M. Herekar

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –III) (Draft Syllabus)
Tax Procedure & Practice – Paper V
Title of Paper – GST (SGST, IGST & CGST)
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To impart theoretical knowledge of GST
2. To help students solve practical problems in GST
3. To acquaint students with the latest concepts and terms in GST.

Unit – I	Schedules under the Act(Schedule I.II and III under GST Act 2017) Levy & Collection of Tax (Scope of supply, Composite & mix supply, levy & collection)	10 Hours
Unit – II	Time & value of supply (Time of supply of goods, Time of supply of service, Value of Taxable supply schedules)	10 Hours
Unit – III	Determination of nature of Supply (Inter state Supply, Intra-state supply, Supplies in territorial water. Sec 7,8,9 of IGST Act) Sec. 10 & 11 of IGST Act Sec-10 Place of Supply of Goods other than supply of goods imported into, or exported from India. Sec. 11 – Place of Supply of Goods imported into or exported from India.	10 Hours
Unit – IV	Basic Problems – Problems to calculate SGST & CGST & Time & Value of supply.	30 Hours

Shivaji University, Kolhapur
B.Com.(CBCS Pattern)
Part – II (Semester –IV) (Draft Syllabus)
Tax Procedure & Practice – Paper VII
Title of Paper – GST
Generic Elective Course
Introduced From June 2019-20

Credit-4

Objectives-

1. To make aware the students regarding new amendments made in the Indirect taxation system of India i.e. GST
2. To give practice approach and implementation of GST provisions
3. To make aware about the key aspects under GST like place of supply of goods and services
4. To enhance the knowledge of students with the practical solutions and case studies under GST.

Unit – I	Composition levy (Conditions, applicability, Composition rate of tax etc. Reverse Charge Mechanism (RCM) – Applicability, Conditions	10 Hours
Unit – II	Input Tax Credit (Eligibility & conditions for taking Input Tax credit apportionment of credit & blocked credit)	20 Hours
Unit – III	Sec 12 - Place of Supply of Goods or services or both. (Place of supply of services, where location of supplies & recipient in India. Sec 13 - Place of Supply of services where location of supplier where location of supplier or location of recipient is outside India	20 Hours
Unit – IV	Basic Problems – Time of supply, value of supply, place of supply & ITC	10Hours

B.Com.II
Semester III and IV (CBCS Pattern)
Tax Procedure and Practice - GST
Nature of Question Paper

Total Marks : 50

Instructions :

1. All questions carry equal marks
2. Attempt any five questions out of seven

Q.1	Theory - Short Notes (Any two out of four)	10 Marks
Q.2	Theory Broad Question	10 Marks
Q.3	Theory Broad Question	10 Marks
Q.3	Problems	
Q.5	Problems	10 Marks
Q.6	Problems	10 Marks
Q.7	Problems	10 Marks

Equivalence

Sr. No.	Old Name	New Name
1	Tax Procedure and Practice GST (SGST, IGST & CGST) Paper V(Vocational)	Tax Procedure and Practice GST Paper V (CBCS)
2	Tax Procedure and Practice GST Paper VII (Vocational)	Tax Procedure and Practice Income Tax Paper VII (CBCS)

Reference Books :

1. GST made simple - Taxman
2. A birds eye view - Jain and Jha
3. Basics of GST - Taxman
4. GST guide for students - CA Vivek Agarwal

SHIVAJI UNIVERSITY, KOLHAPUR

CBCS SYLLABUS WITH EFFECT FROM JUNE 2018

B. Sc. Part – I Semester – I

SUBJECT: MATHEMATICS

DSC – 5A (DIFFERENTIAL CALCULUS)

Theory: 32 hrs. (40 lectures of 48 minutes)

Marks-50 (**Credits: 02**)

Unit – 1:- Hyperbolic Functions

(15 hrs.)

- 1.1 De- Moivre's Theorem. Examples.
- 1.2 Applications of De- Moivre's Theorem , n^{th} roots of unity
- 1.3 Hyperbolic functions. Properties of hyperbolic functions.
- 1.4 Differentiation of hyperbolic functions
- 1.5 Inverse hyperbolic functions and their derivatives. Examples
- 1.6 Relations between hyperbolic and circular functions.
- 1.7** Representation of curves in Parametric and Polar co-ordinates.

Unit – 2: - Higher Order Derivatives

(15 hrs.)

2.1 Successive Differentiation

n^{th} order derivative of standard functions: $(ax+b)^m$, e^{ax} , a^{mx} , $1/(ax+b)$, $\sin(ax+b)$, $\cos(ax+b)$,
 $e^{ax} \sin(ax+b)$, $e^{ax} \cos(ax+b)$.

2.2 Leibnitz's Theorem (with proof).

2.3 Partial differentiation, Chain rule (without proof) and its examples.

2.4 Euler's theorem on homogenous functions.

2.5 Maxima and Minima for functions of two variables.

2.6 Lagrange's Method of undetermined multipliers.

Recommended Books:

- (1) H. Anton, I. Birens and Davis, **Calculus**, John Wiley and Sons, Inc.2002.
- (2) G. B. Thomas and R. L. Finney, **Calculus and Analytical Geometry**, Pearson Education, 2007.
- (3) Maity and Ghosh, **Differential Calculus**, New Central Book Agency (P) limited, Kolkata, India. 2007.

Reference Books:

- (1) Shanti Narayana and P. K. Mittal, **A Course of mathematical Analysis**, S. Chand and Company, New Delhi. 2004.
- (2) S. C . Malik and Savita arora, **Mathematical Analysis (second Edition)**, New Age International Pvt. Ltd., New Delhi, Pune, Chennai.

Mathematics - DSC – 6A (CALCULUS)

Theory: 32 hrs. (40 lectures of 48 minutes)

Marks- 50 (**Credits: 02**)

Unit – 1: - Mean Value Theorems and Indeterminate Forms

(16 hrs.)

1.1 Rolle's Theorem

1.2 Geometrical interpretation of Rolle's Theorem.

1.3 Examples on Rolle's Theorem

1.4 Lagrange's Mean Value Theorem (LMVT)

1.5 Geometrical interpretation of LMVT.

1.6 Examples on LMVT

1.7 Cauchy's Mean Value Theorem (CMVT)

1.8 Examples on CMVT

- 1.9 Taylor's Theorem with Lagrange's and Cauchy's form of remainder (without proof)
- 1.10 Maclarin's Theorem with Lagrange's and Cauchy's form of remainder (without proof)
- 1.11 Maclarin's series for $\sin x$, $\cos x$, e^x , $\log (1+x)$, $(1+x)^m$.
- 1.12 Examples on Maclarin's series
- 1.13 Indeterminate Forms
- 1.14 L'Hospital Rule, the form $\frac{0}{0}$, $\frac{\infty}{\infty}$, and Examples.
- 1.15 L'Hospital Rule, the form $0 \times \infty$, $\infty - \infty$. and Examples.
- 1.16 L'Hospital Rule, the form 0^0 , ∞^0 , 1^∞ . and Examples.

Unit 2: - Limits and Continuity of Real Valued Functions (16 hrs.)

- 2.1 $\epsilon - \delta$ definition of limit of function of one variable, Left hand side limits and Right hand side limits .
- 2.2 Theorems on Limits (Statements Only)
- 2.3 Continuous Functions and Their Properties
- 2.3.1 If f and g are two real valued functions of a real variable which are continuous at $x = c$ then (i) $f + g$ (ii) $f - g$ (iii) $f \cdot g$ are continuous at $x = c$. and (iv) f/g is continuous at $x = c$, $g(c) \neq 0$.
- 2.3.2 Composite function of two continuous functions is continuous.
- 2.4 Classification of discontinuities (First and second kind).
- 2.4.1 Types of Discontinuities :(i) Removable discontinuity(ii) Jump discontinuity of first kind (iii) Jump discontinuity of second kind
- 2.5 Differentiability at a point, Left hand derivative, Right hand derivative, Differentiability in the interval $[a,b]$.

2.6 Theorem: Continuity is necessary but not a sufficient condition for the existence of a derivative.

2.7.1. If a function f is continuous in a closed interval $[a, b]$ then it is bounded in $[a, b]$.

2.7.2. If a function f is continuous in a closed interval $[a, b]$ then it attains its bounds at least once in $[a, b]$.

2.7.3. If a function f is continuous in a closed interval $[a, b]$ and if $f(a)$, $f(b)$ are of opposite signs then there exists $c \in [a, b]$ such that $f(c) = 0$. (Statement Only)

2.7.4. If a function f is continuous in a closed interval $[a, b]$ and if $f(a) \neq f(b)$ then f assumes every value between $f(a)$ and $f(b)$. (Statement Only)

Recommended Books:

- (4) H. Anton, I. Birens and Davis, **Calculus**, John Wiley and Sons, Inc.2002.
- (5) G. B. Thomas and R. L. Finney, **Calculus and Analytical Geometry**, Pearson Education, 2007.
- (6) Maity and Ghosh, **Differential Calculus**, New Central Book Agency (P) limited, Kolkata, India. 2007.

Reference Books:

- (3) Shanti Narayana and P. K. Mittal, **A Course of mathematical Analysis**, S. Chand and Company, New Delhi. 2004.
- (4) S. C . Malik and Savita arora, **Mathematical Analysis (second Edition)**, New Age International Pvt. Ltd., New Delhi, Pune, Chennai.

SHIVAJI UNIVERSITY, KOLHAPUR

CBCS SYLLABUS WITH EFFECT FROM JUNE 2018

B. Sc. Part – I Semester – II

SUBJECT: MATHEMATICS

DSC – 5B (DIFFERENTIAL EQUATIONS)

Theory: 32 hrs. (40 lectures of 48 minutes)

Marks -50 (**Credits: 02**)

Unit 1: Differential Equations of First Order

(16 hrs.)

1.1: Differential Equations of First Order and First Degree.

1.1.1: Exact Differential Equations.

1.1.2: Necessary and Sufficient condition for exactness.

1.1.3: Working Rule for solving an Exact Differential Equation.

1.1.4: Integrating Factor.

1.1.5: Integrating Factor by Inspection and examples.

1.1.6: Integrating Factor by using Rules (Without Proof) and Examples.

1.1.7: Linear Differential Equations: Definition, Method of Solution and examples.

1.1.8: Bernoulli's Equation: Definition, Method of Solution and Examples.

1.2: Differential Equations of First Order but Not of First Degree:

1.2.1: Introduction.

1.2.2: Equations solvable for p: Method and Problems.

1.2.3: Equations solvable for x: Method and Problems.

1.2.4: Equations solvable for y: Method and Problems.

1.2.5: Clairaut's Form: Method and Problems.

1.2.6: Equations Reducible to Clairaut's Form.

Unit 2: Linear Differential Equations

(16 hrs.)

2.1: Linear Differential Equations with Constant Coefficients

2.1.1: Introduction and General Solution.

2.1.2: Determination of Complementary Function

2.1.3: The Symbolic Function $1/f(D)$: Definition.

2.1.4: Determination of Particular Integral.

2.1.5: General Method of Particular Integral.

2.1.6: Theorem: $\frac{1}{(D-a)^n} e^{ax} = \frac{x^n}{n!} e^{ax}$, where n is a positive integer.

2.1.7: Short Methods of Finding P.I. when X is in the form e^{ax} , $\sin ax$, $\cos ax$, x^m (m being a positive integer), $e^{ax}V$, xV where V is a function of x .

2.1.8: Examples.

2.2: Homogeneous Linear Differential Equations (The Cauchy-Euler Equations)

2.2.1: Introduction and Method of Solution.

2.2.2: Legendre's Linear Equations.

2.2.3: Method of Solution of Legendre's Linear Equations.

2.2.4: Examples.

Recommended Books:

(1) M. D. Raisinghania, Ordinary and Partial Differential Equations, Eighteenth Revised Edition 2016; S. Chand and Company Pvt. Ltd. New Delhi

(2) Shepley L. Ross, Differential Equations, Third Edition 1984; John Wiley and Sons, New York

Reference Books:

(1) R. K. Ghosh and K. C, Maity, An Introduction to Differential Equations, Seventh Edition,

2000; Book and Allied (P) Ltd
(2) D. A. Murray, Introductory course in Differential Equations, Khosala Publishing House, Delhi.

Mathematics - DSC – 6B (HIGHER ORDER ORDINARY DIFFERENTIAL EQUATIONS AND PARTIAL DIFFERENTIAL EQUATIONS)

Theory: 32 hrs. (40 lectures of 48 minutes)

Marks -50 (**Credits: 02**)

Unit 1: Second Order Linear Differential Equations and Simultaneous Differential Equations (16 hrs.)

1.1: Second Order Linear Differential Equations

1.1.1: The General Form.

1.1.2: Complete Solution when one Integral is known: Method and Examples.

1.1.3: Transformation of the Equation by changing the dependent variable
(Removal of First order Derivative).

1.1.4: Transformation of the Equation by changing the independent variable.

1.1.5: Method of Variation of Parameters.

1.1.6: Examples.

1.2 Ordinary Simultaneous Differential Equations and Total Differential Equations

1.2.1: Simultaneous Linear Differential Equations of the Form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$.

1.2.2: Methods of Solving Simultaneous Linear Differential Equations.

1.2.3: Total differential equations $Pdx + Qdy + Rdz = 0$

1.2.4: Necessary condition for Integrability of total differential equation

1.2.5: The condition for exactness.

1.2.6: Methods of solving total differential equations:

a) Method of Inspection

b) One variable regarding as a constant

1.2.7: Geometrical Interpretation of Ordinary Simultaneous Differential Equations

1.2.8: Geometrical Interpretation of Total Differential Equations

1.2.9: Geometrical Relation between Total Differential equations and Simultaneous differential Equations.

Unit 2 : Partial Differential Equations

(16 hrs.)

2.1: Partial Differential Equations

2.1.1: Introduction

2.1.2: Order and Degree of Partial Differential Equations

2.1.3: Linear and non-linear Partial Differential Equations

2.1.4: Classification of first order Partial Differential Equations

2.1.5: Formation of Partial Differential Equations by the elimination of arbitrary constants

2.1.6: Formation of Partial Differential Equations by the elimination of arbitrary functions ϕ from the equation $\phi(u,v) = 0$ where u and v are functions of x , y and z .

2.1.7: Examples.

2.2: First Order Partial Differential Equations

2.2.1: First Order Linear Partial Differential Equations

2.2.2: Lagrange's equations $Pp + Qq = R$

2.2.3: Lagrange's methods of solving $Pp + Qq = R$

2.2.4: Examples

2.3: Charpit's method

2.3.1: Special methods of solutions applicable to certain standard forms

2.3.2: Only p and q present

2.3.3: Clairaut's equations

2.3.4: Only p , q and z present

2.3.5: $f(x,p) = g(y,q)$

2.3.6: Examples

Recommended Books:

- (1) M. D. Raisinghania, Ordinary and Partial Differential Equations, Eighteenth Revised Edition 2016; S. Chand and Company Pvt. Ltd. New Delhi
- (2) Shepley L. Ross, Differential Equations, Third Edition 1984; John Wiley and Sons, New York
- (3) Ian Sneddon, Elements of Partial Differential Equations, Seventeenth Edition, 1982; Mc-Graw-Hill International Book Company, Auckland

Reference Books:

- (1) R. K. Ghosh and K. C, Maity, An Introduction to Differential Equations, Seventh Edition, 2000; Book and Allied (P) Ltd
- (2) D. A. Murray, Introductory course in Differential Equations, Khosala Publishing House, Delhi.

Core Course Practical in Mathematics I (CCPM - I)

Marks 50 (Credit 4)

- 1) Examples on Leibnitz's theorem
- 2) Examples on Euler's theorem
- 3) Applications of De Moivre's Theorem
- 4) Maxima and Minima of functions of two variables
- 5) Polar coordinates and tracing of curves in polar form
- 6) Radius of curvature for Cartesian curve i.e. For $y = f(x)$ or $x = f(y)$.
- 7) Radius of curvature for Parametric curve (i. e. $x = f(t)$, $y = g(t)$) and radius of curvature for polar curve (i.e. $r = f(\theta)$)

- 8) Examples on Lagrange's Mean Value theorem
- 9) Examples on Cauchy's Mean Value theorem
- 10) L'Hospital Rule: $\frac{0}{0}$, $\frac{\infty}{\infty}$, 0^∞ , 1^∞ , ∞^∞ .
- 11) Examples on differentiability
- 12) Orthogonal trajectories (Cartesian, Polar)
- 13) Simultaneous Differential Equations
- 14) Total differential Equations
- 15) Examples on Linear Differential Equations with Constant Coefficients
- 16) Examples on Exact Differential Equations
- 17) Examples on Charpit's method.
- 18) Examples on Clairaut's Forms.
- 19) Plotting family of solutions of second order differential equations.(Using software)
- 20) Plotting of Curves. .(Using software)

**SHIVAJI UNIVERSITY,
KOLHAPUR**



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Mathematics Part -II

SEMESTER III AND IV

(Syllabus to be implemented from June, 2019 onwards.)

B.Sc. (Mathematics) (Part-II) (Semester–III)
(Choice Based Credit System)
(Introduced from June 2019)

Course Code: DSC – 5C

Title of Course: Real Analysis–I

Theory: 32Hrs. (40 Lectures of 48 minutes)

Marks – 50 (Credits: 02)

Course Objectives: Upon successful completion of this course, the student will be able to:

- (1) understand types of functions and how to identify them.
- (2) use mathematical induction to prove various properties.
- (3) understand the basic ideas of Real Analysis.
- (4) prove order properties of real numbers, completeness property and the Archimedean property.

Unit1: Functions and Countable sets

(16hrs)

1.1. Sets.

1.1.1. Revision of basic notions in sets.

1.1.2. Operations on sets:-Union, Intersection, Complement, Relative complement, Cartesian product of sets, Relation.

1.2. Functions

1.2.1. Definitions: Function, Domain, Co-domain, Range, Graph of a function, Direct image and Inverse image of a subset under a function. Examples of direct image and inverse image of a subset.

1.2.2. **Theorem:** If $f: A \rightarrow B$ and if $X \subseteq B, Y \subseteq B$, then

$$f^{-1}(X \cup Y) = f^{-1}(X) \cup f^{-1}(Y)$$

1.2.3. **Theorem:** If $f: A \rightarrow B$ and if $X \subseteq B, Y \subseteq B$, then

$$f^{-1}(X \cap Y) = f^{-1}(X) \cap f^{-1}(Y)$$

1.2.4. **Theorem:** If $f: A \rightarrow B$ and if $X \subseteq A, Y \subseteq A$, then $f(X \cup Y) = f(X) \cup f(Y)$

1.2.5. **Theorem:** If $f: A \rightarrow B$ and if $X \subseteq A, Y \subseteq A$, then $f(X \cap Y) \subseteq f(X) \cap f(Y)$

1.2.6. **Definitions:** Injective, Surjective and Bijective functions (1-1 correspondance)
Inverse function.

1.2.7. **Proposition:** If $f:A \rightarrow B$ is injective and $E \subseteq A$, then $f^{-1}(f(E)) = E$.

1.2.8. **Proposition:** If $f:A \rightarrow B$ is surjective and $H \subseteq B$, then $f(f^{-1}(H)) = H$.

1.2.9. **Definition:** Composite function, Restriction and Extension of a function.

1.2.10. **Theorem:** Let $f:A \rightarrow B$ and $g:B \rightarrow C$ be functions and let H be a subset of C .
Then $(g \circ f)^{-1}(H) = f^{-1}(g^{-1}(H))$.

1.2.11. **Theorem:** Composition of two bijective functions is a bijective function.

1.2.12. **Examples**

1.3. Mathematical Induction

1.3.1. **Principle of Mathematical Induction** (without proof), Well ordering property
of natural numbers

1.3.2. **Principle of Mathematical Induction** (second version: Statement only),
Principle of strong induction (Statement only).

1.3.3. Examples based on 1.3.1 and 1.3.2

1.4. Countable Sets

1.4.1. **Definitions:** Denumerable sets, Countable sets, uncountable sets.

1.4.2. **Examples of denumerable sets:** Set of Natural numbers, Set of Integers, Set
of even natural numbers and odd natural numbers.

1.4.3. **Proposition:** Union of two disjoint denumerable sets is denumerable.

1.4.4. **Theorem:** If A_m is a countable set for each $m \in \mathbb{N}$, then the union
 $A = \bigcup_{m=1}^{\infty} A_m$ is countable. (Countable union of countable sets is countable)

1.4.5. **Theorem:** The set of Rational numbers is denumerable.

1.4.6. **Theorem:** Any subset of countable set is countable.

1.4.7. **Theorem:** The closed interval $[0,1]$ is uncountable.

1.4.8. **Corollary:** The set of all real numbers is uncountable.

1.4.9. **Examples**

Unit2:The Real numbers

(16hrs)

2.1. Algebraic and Order Properties of \mathbb{R} .

2.1.1. Algebraic properties of real numbers.

2.1.2. **Theorem:** Let $a, b, c \in \mathbb{R}$.

- (a) If $a > b$ and $b > c$, then $a > c$
- (b) If $a > b$, then $a + c > b + c$
- (c) If $a > b$ and $c > 0$, then $ac > bc$. If $a > b$ and $c < 0$, then $ac < bc$

2.1.3. **Theorem:**

- (a) If $a \in \mathbb{R}$ and $a \neq 0$, then $a^2 > 0$.
- (b) $1 > 0$
- (c) If $n \in \mathbb{N}$, then $n > 0$.

2.1.4. **Theorem:** If $a \in \mathbb{R}$ is such that $0 \leq a < \epsilon$ for every $\epsilon > 0$ then $a = 0$.

2.1.5. **Theorem:** If $ab > 0$, then either (i) $a > 0$ and $b > 0$ or (ii) $a < 0$ and $b < 0$

2.1.6. **Corollary:** If $ab < 0$, then either (i) $a < 0$ and $b > 0$ or (ii) $a > 0$ and $b < 0$

2.2. **Inequalities**

2.2.1. If $a \geq 0, b \geq 0$, then prove that

$$a < b \Leftrightarrow a^2 < b^2 \Leftrightarrow \sqrt{a} < \sqrt{b}.$$

2.2.2. **Arithmetic-Geometric mean inequality** (with proof).

2.2.3. **Bernoulli's inequality** (with proof).

2.3. **Absolute Value and neighbourhood**

2.3.1. **Definition:** Absolute value of a real number

2.3.2. **Theorem:**

- (a) $|ab| = |a| \cdot |b|$ for all $a, b \in \mathbb{R}$
- (b) $|a|^2 = a^2$ for all $a \in \mathbb{R}$
- (c) If $c \geq 0$, then $|a| \leq c$ if and only if $-c \leq a \leq c$
- (d) $-|a| \leq a \leq |a|$ for all $a \in \mathbb{R}$

2.3.3. **Theorem (Triangle inequality):** If $a, b \in \mathbb{R}$, then $|a + b| \leq |a| + |b|$.

2.3.4. **Corollary:** If $a, b \in \mathbb{R}$, then (i) $||a| - |b|| \leq |a - b|$ (ii) $|a - b| \leq |a| + |b|$

2.3.5. **Corollary:** If a_1, a_2, \dots, a_n are any real numbers then

$$|a_1 + a_2 + \dots + a_n| \leq |a_1| + |a_2| + \dots + |a_n|$$

2.3.6. **Examples on inequalities**

2.3.7. **Definition:** ϵ - Neighbourhood.

2.3.8. **Theorem:** Let $a \in \mathbb{R}$. If x belongs to the neighbourhood $V_\epsilon(a)$ for every

$$\epsilon > 0 \text{ then } x = a.$$

2.4. **Completeness property of \mathbb{R}**

- 2.4.1. **Definitions:** Lower bound, Upper bound of a subset of \mathbb{R} , Bounded set, Supremum (least upper bound), Infimum (greatest lower bound).
- 2.4.2. **The completeness property of \mathbb{R} (The supremum property)**
- 2.4.3. Applications of the supremum property.
- 2.4.4. **Theorem: (Archimedean Property)** If $x \in \mathbb{R}$, then there exists $n_x \in \mathbb{N}$ such that $x \leq n_x$.
- 2.4.5. **Corollary:** If $S = \left\{ \frac{1}{n} : n \in \mathbb{N} \right\}$, then $\inf S = 0$.
- 2.4.6. **Corollary:** If $t > 0$, then there exists $n_t \in \mathbb{N}$ such that $0 < \frac{1}{n_t} < t$.
- 2.4.7. **Corollary:** If $y > 0$, then there exists $n_y \in \mathbb{N}$ such that $n_y - 1 < y < n_y$.
- 2.4.8. **Theorem:** There exists a positive real number x such that $x^2 = 2$.
- 2.4.9. **Theorem: (The Density theorem)** If x and y are any real numbers with $x < y$, then there exists a rational number $r \in \mathbb{Q}$ such that $x < r < y$.
- 2.4.10. **Corollary:** If x and y are real numbers with $x < y$, then there exists an irrational number z such that $x < z < y$.

2.5. Intervals

- 2.5.1. **Characterization theorem:** If S is a subset of \mathbb{R} that contains at least two points and has the property
if $x, y \in S$ and $x < y$, then the closed interval $[x, y] \subseteq S$,
then S is an interval.

Recommended Book

- 1) **Introduction to Real Analysis**, Robert G. Bartle and Donald R. Sherbert, Wiley Student Edition, 2010.

Reference Books:

- 1) **Methods of Real Analysis**, R. R. Goldberg, Oxford and IBH Publishing House, New Delhi, 1970.
- 2) **A Basic Course in Real Analysis**, Ajit Kumar and S. Kumaresan, CRC Press, Taylor & Francis Group, 2014.
- 3) **Real Analysis**, HariKishan, Pragati Prakashan, fourth revised edition 2012
- 4) **An Introduction to Real Analysis**, P. K. Jain and S. K. Kaushik, S. Chand & Co., New Delhi, 2000.

B.Sc. Part II (Mathematics) (Semester III)
(Choice Based Credit System)
(Introduced from June 2019 onwards)

Course Code: DSC – 6C

Title of Course: **Algebra–I**

Theory: 32 hrs. (40 lectures of 48 minutes)

Marks – 50 (Credits: 02)

Course Objectives : Upon successful completion of this course, the student will be able to:

1. understand properties of matrices
2. solve System of linear homogeneous equations and linear non-homogeneous equations.
3. find Eigen values and Eigen vectors.
4. construct permutation group and relate it to other groups.
5. classify the various types of groups and subgroups.

Unit1: Matrices and Relations

- 1.5. **Definitions:** Hermitian and Skew Hermitian matrices.
- 1.6. **Properties** of Hermitian and Skew Hermitian matrices.
- 1.7. Rank of a matrix, Row-echelon form and reduced row echelon form.
- 1.8. System of linear homogeneous equations and linear non-homogeneous equations.
 - 1.8.1. Condition for consistency
 - 1.8.2. Nature of the general solution
 - 1.8.3. Gaussian elimination and Gauss Jordan method (Using row-echelon form and reduced row echelon form).
 - 1.8.4. Examples on 1.4.1 and 1.4.3
- 1.9. The characteristic equation of a matrix, Eigen values, Eigen vectors of a matrix.
- 1.10. **Cayley Hamilton theorem**
- 1.11. Applications of Cayley Hamilton theorem (Examples).
- 1.12. **Relations:** Definition, Types of relations, Equivalence relation, Partial ordering relation
- 1.13. **Examples** of equivalence relations and Partial ordering relations.
- 1.14. Digraphs of relations, matrix representation.
- 1.15. Composition of relations
- 1.16. Transitive closure, Warshall's algorithm
- 1.17. Equivalence classes, Partition of a set
 - 1.17.1. **Theorem:** Let \sim be an equivalence relation on a set X . Then

- (a) For every $x \in X, x \in \overline{X}$
- (b) For every $x, y \in X, x \in \overline{Y}$ if and only if $\overline{X} = \overline{Y}$.
- (c) For every $x, y \in X$, either $\overline{x} = \overline{y}$ or $\overline{x} \cap \overline{y} = \emptyset$.

1.17.2. Equivalence class Theorem

Unit2: Groups

(16 hours)

- 2.1. **Definition** of Binary Operations and examples
- 2.2. **Groups and its Properties**
 - 2.2.1. **Definition** of Group, Semigroup, Abelian group, finite and infinite group, Quaternion group and Order of the group and examples
 - 2.2.2. **Theorem:** In a group G
 - (i) Identity element is unique
 - (ii) Inverses of each elements in G is unique
 - (iii) $(a^{-1})^{-1} = a$ for all $a \in G$
 - (iv) $(ab)^{-1} = b^{-1}a^{-1}$ for all $a, b \in G$.
 - 2.2.3. **Theorem:** If G is a group with binary operation *, then the left and right cancellation laws hold in G, that is $a * b = a * c$ implies $b = c$, and $b * a = c * a$ implies $b = c$ for $a, b, c \in G$.
 - 2.2.4. **Theorem:** If G is a group with binary operation *, and if a and b are any elements of G, then linear equations $a * x = b$ and $y * a = b$ have unique solutions in G.
- 2.3. **Subgroups**
 - 2.3.1. **Definition** of Subgroup, Improper and Proper subgroups, Trivial subgroup and examples
 - 2.3.2. **Theorem:** A subset H of a group G is a subgroup of G if and only if
 - (i) H is closed under the binary operation of G.
 - (ii) The identity e of G is in H,
 - (iii) For all $a \in H$ it is true that $a^{-1} \in H$ also.
 - 2.3.3. **Theorem:** A non empty subset H of a group G is a subgroup of G if and only if for all $a, b \in H, a * b^{-1} \in H$.
 - 2.3.4. **Theorem:** Intersection of any two subgroups of a group is again a subgroup.
 - 2.3.5. **Definition** of Normalizer of an element in group G, Center of group G.
 - 2.3.6. **Theorem:** If G is a group and $a \in G$, then the set $N(a) = \{ x \in G \mid xa = ax \}$ is a subgroup of G.
 - 2.3.7. **Theorem:** If G is a group, then the set $C = \{ x \in G \mid xa = ax, \text{ for all } a \in G \}$ is the set of all the elements of G which commutes with every elements of G.
- 2.4. **Cyclic Groups and its Properties**
 - 2.4.1. **Definition** of Cyclic group generated by an element, Cyclic subgroup of a group and examples
 - 2.4.2. **Theorem:** If G is a group and $a \in G$ is a fixed element of G, then the set $H = \{ a^n \mid n \in \mathbb{Z} \}$ is a subgroup of G.
 - 2.4.3. **Definition** of Order of an element of a group and its properties.
 - 2.4.4. **Theorem:** Every cyclic group is abelian.

- 2.4.5. **Theorem:** If a is a generator of a cyclic group G , so is a^{-1} .
- 2.4.6. **Theorem:** If a is a generator of a cyclic group G , then $O(a) = O(G)$.
- 2.4.7. **Theorem:** If G is a finite group of order n containing an element of order n , then G is cyclic.
- 2.4.8. **Theorem:** If in a cyclic group $\langle a \rangle$ of order k , $a^m = a^n$ ($m \neq n$), then $m \equiv n \pmod{k}$.
- 2.4.9. **Theorem:** Every subgroup of a cyclic group is cyclic.
- 2.4.10. **Theorem:** A cyclic group of order d has $\phi(d)$ generators.

2.5. Cosets

2.5.1. **Definition** of Left and Right Cosets in group G and examples

2.5.2. **Theorem:** If H is a subgroup of G , then

- (i) $Ha = H$ if and only if $a \in H$
- (ii) $Ha = Hb$ if and only if $ab^{-1} \in H$
- (iii) Ha is a subgroup of G if and only if $a \in H$

2.5.3. **Theorem:** If H is a subgroup of G , then for all $a \in G$ $Ha = \{x \in G \mid x \equiv a \pmod{H}\}$.

2.5.4. **Theorem:** If H is a subgroup of G then there exists a one to one correspondence between any two right (left) cosets of H in G .

Recommended Books

- Howard Anton—Elementary Linear Algebra, Fifth Edition John Wiley & Sons.
- J. B. Fraleigh, A First Course in Abstract Algebra, Narosa Publishing House New Delhi.

Reference Books---

- Kenneth Hoffman, Raykunze---Linear Algebra, Second Edition, PHI Learning Private LTD. New Delhi-110001-2010.
- Vivek Sahai, Vikas Bist—Linear Algebra, Alpha Science International LTD. Pangbourne.
- I. N. Herstein-- Topics in Algebra, Wiley India Pvt. Ltd.
- S. kumaresan—Linear Algebra, A Geometric Approach

B.Sc. Part II (Mathematics) (Semester IV)
(Choice Based Credit System)
(Introduced from June 2019 onwards)

Course Code: DSC – 5D

Title of Course: Real Analysis – II

Theory: 32Hrs. (40 Lectures of 48 minutes)

Marks – 50 (Credits: 02) **Course**

Objectives : Upon successful completion of this course, the student will be able to:

1. understand sequence and subsequence.
2. prove The Bolzano-Weierstrass Theorem.
3. derive Cauchy Convergence Criterion.
4. find convergence of series.
5. apply Leibnitz Test.

UNIT 1: Sequence of real numbers

(20 Lectures)

1.1 Sequence and subsequence

1.1.1 Definition and examples.

1.1.2 Limit of sequence and examples using definition.

1.1.3 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is sequence of non-negative real numbers and if $\lim S_n = L$ then $L \geq 0$.

1.1.4 Convergent sequences and examples.

1.1.5 Theorem: If the sequence of real numbers $\{S_n\}_{n=1}^{\infty}$ is convergent to L, then $\{S_n\}_{n=1}^{\infty}$ can not converge to limit distinct from L.

1.1.6 Theorem (without proof) : If the sequence of real numbers $\{S_n\}_{n=1}^{\infty}$ is convergent to L, then any subsequence of $\{S_n\}_{n=1}^{\infty}$ is also convergent to L.

1.1.7 Theorem (without proof): All subsequences of a convergent sequence of real numbers converge to the same limit.

1.1.8 Bounded sequences and examples.

1.1.9 Theorem: If the sequence of real numbers $\{S_n\}_{n=1}^{\infty}$ is convergent, then it is bounded.

1.2 Monotone Sequences

1.2.1 Definition and examples.

1.2.2 Theorem: A non-decreasing sequence which is bounded above is convergent.

1.2.3 Theorem: A non-increasing sequence which is bounded below is convergent.

1.2.4 Corollary: The sequence **Error! Objects cannot be created from editing field codes.** $\{(1 + 1/n)^n\}$ is convergent.

1.2.5 Theorem (without proof): A non-decreasing sequence which is not bounded above diverges to infinity.

1.2.6 Theorem (without proof): A non-increasing sequence which is not bounded below diverges to minus infinity.

1.2.7 Theorem : A bounded sequence of real numbers has a convergent subsequence.

1.3 Operations on convergent sequences

1.3.1 Theorem: If $\{S_n\}_{n=1}^{\infty}$ and $\{t_n\}_{n=1}^{\infty}$ are sequences of real numbers, if $\lim S_n = L$ and $\lim t_n = M$ then $\lim (S_n + t_n) = L + M$.

1.3.2 Theorem: If $\{S_n\}_{n=1}^{\infty}$ and $\{t_n\}_{n=1}^{\infty}$ are sequences of real numbers, if $\lim S_n = L$ and $\lim t_n = M$ then $\lim (S_n - t_n) = L - M$.

1.3.3 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is a sequence of real numbers, if $c \in \mathbb{R}$, and if $\lim S_n = L$ then $\lim cS_n = cL$.

1.3.4 Theorem: If $0 < x < 1$, then the sequence $\{x^n\}$ converges to 0.

1.3.5 Lemma: If $\{S_n\}_{n=1}^{\infty}$ is a sequence of real numbers which converges to L then $\{S_n^2\}_{n=1}^{\infty}$ converges to L^2 .

1.3.6 Theorem: If $\{S_n\}_{n=1}^{\infty}$ and $\{t_n\}_{n=1}^{\infty}$ are sequences of real numbers, if $\lim S_n = L$ and $\lim t_n = M$ then $\lim (S_n \cdot t_n) = LM$.

1.3.7 Theorem: If $\{S_n\}_{n=1}^{\infty}$ and $\{t_n\}_{n=1}^{\infty}$ are sequences of real numbers, if $\lim S_n = L$ and $\lim t_n = M$ then $\lim (S_n / t_n) = L / M$.

1.4 Limit Superior and Limit Inferior of Sequences

1.4.1 Definition and examples.

1.4.2 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is a convergent sequence of real numbers, then $\lim_{n \rightarrow \infty} \sup S_n = \lim_{n \rightarrow \infty} S_n$.

1.4.3 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is a convergent sequence of real numbers, then $\lim_{n \rightarrow \infty} \inf S_n = \lim_{n \rightarrow \infty} S_n$.

1.4.4 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is a sequence of real numbers, and if $\lim_{n \rightarrow \infty} \sup S_n = \lim_{n \rightarrow \infty} \inf S_n = L$ where $L \in \mathbb{R}$, then $\{S_n\}_{n=1}^{\infty}$ is convergent and $\lim_{n \rightarrow \infty} S_n = L$.

1.4.5 Theorem: If $\{S_n\}_{n=1}^{\infty}$ and $\{t_n\}_{n=1}^{\infty}$ are bounded sequences of real numbers and if $S_n \leq t_n$ then i) $\lim_{n \rightarrow \infty} \sup S_n \leq \lim_{n \rightarrow \infty} \sup t_n$.

$$\text{ii) } \lim_{n \rightarrow \infty} \inf S_n \leq \lim_{n \rightarrow \infty} \inf t_n.$$

1.4.6 Theorem: If $\{S_n\}_{n=1}^{\infty}$ and $\{t_n\}_{n=1}^{\infty}$ are bounded sequences of real numbers then i) $\lim_{n \rightarrow \infty} \sup (S_n + t_n) \leq \lim_{n \rightarrow \infty} \sup S_n + \lim_{n \rightarrow \infty} \sup t_n$.
ii) $\lim_{n \rightarrow \infty} \inf (S_n + t_n) \geq \lim_{n \rightarrow \infty} \inf S_n + \lim_{n \rightarrow \infty} \inf t_n$.

1.5 The Cauchy Sequence

1.5.1 Definition and examples

1.5.2 Theorem: If the sequence of real numbers $\{S_n\}_{n=1}^{\infty}$ converges, then $\{S_n\}_{n=1}^{\infty}$ is a Cauchy sequence.

- 1.5.3 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is the Cauchy sequence of real numbers then $\{S_n\}_{n=1}^{\infty}$ is bounded.
- 1.5.4 Theorem: If $\{S_n\}_{n=1}^{\infty}$ is the Cauchy sequence of real numbers then $\{S_n\}_{n=1}^{\infty}$ is convergent.
- 1.5.5 Definition and examples of $(C, 1)$ summability of sequence.

UNIT 2 **Infinite Series** (20 Lectures)

2.1 Convergent and Divergent Series

- 2.1.1 Definition: Infinite series, convergent and divergent series, sequence of partial sum of series and examples.
- 2.1.2 A necessary condition for convergence: A necessary condition for convergence of an infinite series $\sum u_n$ is that $\lim u_n = 0$.
- 2.1.3 Cauchy's General Principal of Convergence (statement only).
- 2.1.3 Theorem: A series $\sum u_n$ converges iff for every $\epsilon > 0$ there exists a positive number m such that $|u_{n+1} + u_{n+2} + \dots + u_{n+p}| < \epsilon$, for every all $n \geq m$ and $p \geq 1$.

2.2 Positive Term Series

- 2.2.1 Definition and examples.
- 2.2.2 Theorem: A positive term series converges iff its sequence of partial sums is bounded above.
- 2.2.3 Geometric Series: The positive term geometric series **Error! Objects cannot be created from editing field codes.**ⁿ converges for $r < 1$, and diverges to infinity for $r \geq 1$.
- 2.2.4 Theorem: A positive term series **Error! Objects cannot be created from editing field codes.**^p is convergent if and only if $p > 1$.

2.3 Comparison Tests For Positive Term Series

- 2.3.1 Comparison Test (First Type): If $\sum u_n$ and $\sum v_n$ are two positive term series, and $k \neq 0$, a fixed positive real number (independent of n) and there exists a positive integer m such that $u_n \leq kv_n$, for every $n \geq m$, then
- $\sum u_n$ is convergent, if $\sum v_n$ is convergent, and
 - $\sum v_n$ is divergent, if $\sum u_n$ is divergent.
- 2.3.2 Examples.
- 2.3.3 Limit Form: If $\sum u_n$ and $\sum v_n$ are two positive term series such that $\lim (u_n / v_n) = L$, where L is a non zero finite number, then the two series converge or diverge together.
- 2.3.4 Comparison Test (Second Type): If $\sum u_n$ and $\sum v_n$ are two positive term series, and there exists a positive number m such that $(u_n / u_{n+1}) \geq (v_n / v_{n+1})$, for every $n \geq m$, then (a) $\sum u_n$ is convergent, if $\sum v_n$ is convergent, and (b) $\sum v_n$ is divergent, if $\sum u_n$ is divergent.

2.3.5 Examples.

2.3.6 Cauchy's Root Test: If $\sum u_n$ is a positive term series such that $\lim (u_n)^{1/n} = L$, then the series (i) converges, if $L < 1$, (ii) diverges, if $L > 1$, and (iii) the test fails to give any definite information, if $L = 1$.

2.3.7 Examples.

2.3.8 D'Alembert's Ratio Test: If $\sum u_n$ is a positive term series, such that $\lim (u_{n+1} / u_n) = L$, then the Series (i) converges, if $L < 1$. (ii) diverges, if $L > 1$, and (iii) the test fails, if $L = 1$.

2.3.9 Examples.

2.3.10 Raabe's Test: If $\sum u_n$ is a positive term series such that $\lim n\{ (u_n / u_{n+1}) - 1 \} = L$, then the series (i) converges, if $L > 1$. (ii) diverges, if $L < 1$, and (iii) the test fails, if $L = 1$.

2.3.11 Examples.

2.4 Alternating Series

2.4.1 Definition and examples.

2.4.2 Leibnitz Test: If the alternating series $u_1 - u_2 + u_3 - u_4 + \dots$ ($u_n > 0$, for every n) is such that (i) $u_{n+1} \leq u_n$, for every n and (ii) $\lim u_n = 0$, then the series converges.

2.4.3 Examples.

2.5 Absolute and Conditional Convergence

2.5.1 Definition and examples .

2.5.2 Theorem: Every absolutely convergent series is convergent.

2.5.3 Examples.

Recommended Books:

1. **R.R.Goldberg**, Methods of Real Analysis, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. **For Unit 1**
2. **S.C.Malik and SavitaArora**, Mathematical Analysis (Fifth Edition), New Age International (P) Limited, 2017. **For Unit 2**

Reference Books:

1. **R.G.Bartle and D.R.Sherbert**, Introduction to Real Analysis, Wiley India Pvt. Ltd., Fourth Edition 2016.
2. **D Somasundaram and B Choudhary**, First Course in Mathematical Analysis, Narosa Publishing House New Delhi, Eighth Reprint 2013.
3. **P.K.Jain and S.K.Kaushik**, An Introduction to Real Analysis, S.Chand& Company Ltd. New Delhi, First Edition 2000.
4. **Shanti Narayan and M.D.Raisinghanian**, Elements of Real Analysis, S.Chand& Company Ltd. New Delhi, Fifteenth Revised Edition 2014
5. **Shanti Narayan and P.K.Mittal**, A Course of Mathematical Analysis, S.Chand& Company Ltd. New Delhi, Reprint 2016

B.Sc. Part II (Mathematics) (Semester IV)
(Choice Based Credit System)
(Introduced from June 2019 onwards)

Course Code: DSC – 6D

Title of Course: Algebra-II

Theory: 32 hrs. (40 lectures of 48 minutes)

Marks – 50 (Credits: 02)

Course Objectives : Upon successful completion of this course, the student will be able to:

1. prove Lagrange's theorem.
2. derive Fermat's theorem.
3. understand properties of normal subgroups, factor group.
4. define homomorphism and isomorphism's in group and rings.
5. derive basic properties of rings and subrings.

Unit - 1 Groups

(16 hours)

1.1 Lagrange's theorem and its Consequences

1.1.1 **Definition** of Index of a subgroup

1.1.2 **Theorem(Lagrange):** If G is any finite group and H is any subgroup of G , then $O(H)$ divides $O(G)$.

1.1.3 **Corollary:** The index of any subgroup of a finite group is a divisor of the order of the group.

1.1.4 **Corollary:** If G is a finite group and $a \in G$, then $O(a)$ divides $O(G)$.

1.1.5 **Corollary:** If G is a finite group of order n then for all $a \in G$, $a^n = e$, where e is the identity element of G .

1.1.6 **Theorem(Euler's theorem):** If n is any positive integer and a is relatively prime to n , then $a^{\phi(n)} \equiv 1 \pmod{n}$

1.1.7 **Theorem(Fermat's theorem):** If a is any integer and p is any positive prime, then $a^p \equiv a \pmod{p}$.

1.2 Normal subgroups and its Properties

1.2.1 **Definition** of Normal subgroup and examples

1.2.2 **Theorem:** A subgroup H of a group G is normal if and only if $gHg^{-1} = H$ for all $g \in G$.

1.2.3 **Theorem:** A subgroup H of a group G is normal if and only if every right coset of H in G is a left coset of H in G .

1.2.4 **Corollary:** Every subgroup of an abelian group is a normal subgroup.

1.2.5 **Theorem:** A subgroup H of a group G is normal in G if and only if the product of any two right (or left) cosets H in G is again a right (or left) coset of H in G .

1.2.6 **Results related to Normal subgroups**

- (i) The intersection of any two normal subgroups of a group is also a normal subgroup.
- (ii) The product of any two normal subgroups of a group is a subgroup of the group.
- (iii) Let H be a subgroup and K be normal subgroup of the group G . Then $H \cap K$ is normal in H .
- (iv) If N is a normal subgroup of G and H is any subgroup of G , then NH is a subgroup of G .
- (v) The center Z of a group G is a normal subgroup of G .
- (vi) The center Z of a group is a normal subgroup of a normalizer of an element.

1.3 Factor Group (Quotient Group)

1.3.1 **Definition** of Factor Group or Quotient Group and examples

1.3.2 **Theorem:** The set $G/H = \{Ha \mid a \in G\}$ of all cosets of a normal subgroup H , of the group G , is a group under the binary operation defined by $Ha \cdot Hb = Hab$, for all $Ha, Hb \in G/H$.

1.3.3 **Theorem:** If H is a normal subgroup of finite order, then $O(G/H) = O(G)/O(H)$.

1.3.4 **Theorem:** Every Quotient group of an abelian group is abelian.

1.3.5 **Theorem:** Every factor group of a cyclic group is cyclic

1.4 Homomorphism of Groups

1.4.1 **Definition** of Homomorphism, Isomorphism, Automorphism and Endomorphism of Groups and examples.

1.4.2 **Theorem:** Let $f : G \rightarrow G'$ be a homomorphism from the group (G, \cdot) into the group $(G', *)$. Then

- (i) $f(e) = e'$, where e and e' are the identity elements of the groups G and G' respectively.
- (ii) $f(a^{-1}) = [f(a)]^{-1}$, for all $a \in G$.

1.4.3 **Theorem:** If f is a homomorphism of a group G into a group G' , then the range $f(G) = \{f(g) \mid \text{for all } g \in G\}$ is a subgroup of G' .

1.4.4 **Theorem:** The homomorphic image of the group G in the group G' is a subgroup of G' .

1.4.5 **Theorem:** Let $f : G \rightarrow G'$ be a homomorphism from the group G into the group G' and H is a subgroup of G , then $f(H)$ is also a subgroup of G' .

1.4.6 **Theorem:** Let $f : G \rightarrow G$ be a homomorphism of the group G into itself and H is a cyclic subgroup of G , then $f(H)$ is again a cyclic subgroup of G .

Unit – 2 Normal subgroups

(16 hours)

2.1. Kernel of a Homomorphism

2.1.1. **Definition** of Kernel of a Homomorphism and examples.

2.1.2. **Theorem:** Let $f : G \rightarrow G'$ be a homomorphism of a group G into G' with Kernel K . Then K is a normal subgroup of G .

2.1.3. **Theorem:** Let $f : G \rightarrow G'$ be a homomorphism of a group G into G' with Kernel K . Then f is one – one if and only if $K = \{e\}$, where e is the identity element of G .

2.1.4. **Corollary:** A homomorphism f from the group G onto the group G' is an isomorphism if and only if $\text{Ker } f = \{e\}$.

- 2.1.5. **Theorem:** Let G be a group and H be a normal subgroup of G . Then G/H is a homomorphic image of G with H as its Kernel.
- 2.1.6. **Theorem(Fundamental Homomorphism Theorem):** Let f be a homomorphism of a group G into a group G' , with kernel K . Then $f(G)$ is isomorphic to factor group G/K .
- 2.1.7. **Results related to Isomorphism**
- (i) If $f : G \rightarrow G'$ be an isomorphism of a group G onto a group G' and a is any element of G then the order of $f(a)$ equals the order of a .
 - (ii) If $f : G \rightarrow G'$ be an isomorphism and G is an abelian group then G' is also abelian.
 - (iii) Any infinite cyclic group is isomorphic to the group Z of integers, under addition.
 - (iv) Any finite cyclic group of order n is isomorphic to additive group of integers modulo n .

2.2. Permutation Group

- 2.2.1. **Definition** of Permutation, Degree of permutation, Equality of two permutations, Identity permutations, Inverse and Composition of permutation and Symmetric group and examples.
- 2.2.2. **Theorem:** Let S be a non empty finite set of n elements. The set S_n of all permutations of degree n defined on S , is a finite group of order $n!$, under the permutation multiplication.
- 2.2.3. **Theorem(Cayley's Theorem):** Every finite group is isomorphic to a group of permutation.

2.3. Rings

- 2.3.1. Definition and examples.
- 2.3.2. Basic Properties.
- 2.3.3. Homomorphism and isomorphism in a ring.
- 2.3.4. Multiplicative questions: Fields
- 2.3.5. Examples of Commutative and non-commutative rings.
- 2.3.6. Rings from number system, Z_n the ring of integers modulo n .

2.4. Subrings

- 2.4.1. Definition and examples.
- 2.4.2. Basic properties
- 2.4.3. Ideals: Definition and examples.
- 2.4.4. Examples of subring which are not ideals.

Recommended Books:

- 1 **J. B. Fraleigh**, A First Course in Abstract Algebra, Narosa Publishing House New Delhi, Tenth Reprint 2003.
- 2 **V. K. Khanna and S. K. Bhambri**, A Course in Abstract Algebra, Vikas Publishing House Pvt Ltd., New Delhi, Fifth Edition 2016.

Reference Books:

- 1 **I.N. Herstein**, Topics in Algebra, Wiley indiaPvt. Ltd,
- 2 **M. Artin**, Algebra, Prentice Hall of India, New Delhi, 1994
- 3 **N. S. Gopalkrishnan**, University Algebra, New Age International New Delhi, Second Edition 1986

B. A./B. Sc. (Mathematics) (Part II)
(Choice Based Credit System)
(Introduced from June 2019 onwards)
Core Course Practical in Mathematics (CCPM – II)
Marks 50 (Credit 04)
(Analysis I & II and Algebra I & II)

SEMESTER-III		
Sr. No.	Topic	No. of Practicals
1	Eigen values and Eigen vectors	1
2	Cayley Hamilton theorem (Verification and finding inverse of matrix)	1
3	Range of function, Image and inverse image of a subset	1
4	Types of Function (Injective, Surjective, Bijective , Inverse function, Composition of two functions)	1
5	Mathematical induction	1
SEMESTER-IV		
6	Limit of a sequence (using definition)	1
7	Convergence of sequence	1
8	Comparison test and Cauchy's root test	1
9	D' Alembert's ratio test and Rabbi's test	1
10	Examples on Group and order of an element	1
11	Cyclic subgroup	1
12	Permutation group	1
13	Homomorphism and Kernel	1

Core Course Practical in Mathematics (CCPM – III)

Marks 50 (Credit 04)

(Numerical Recipes in Scilab)

SEMESTER-III		
Sr. No	Content	No. of Practical's
1	Introduction: Application, feature, scilabs environment workspace, working directory, Scilab as a calculate, operators, mathematical predefined functions, constants, variables and their types.	1
2	Matrix: Rows matrix, column matrix, general matrix, operation on matrix addition, subtraction, product.	1
3	Accessing element of matrix: Size of Matrix, Length of matrix, accessing element using one index, two indices	1
4	Sub Matrix: Accessing sub matrix of given matrix using ':' operator & '\$' operator	1
5	Advanced matrix operations: Matrix functions: eye(), zero (), ones (), empty matrix, element-wise operation, determinant, inverse, trace of matrix & diagonal element of matrix.	1
6	Polynomial: Creating a polynomial 1) using roots 2) using coefficients, roots of polynomial, derivative companion matrix, numerator & denominator of rational, simplifying rational.	1
7	Plotting graph: Creating graphs of simple functions.	1
8	Introduction Scilab programming: disp(), Boolean operators, conditional statement (if select), find() and () or (), looping statement.	1
SEMESTER-IV		
9	Advanced Scilab programming using function: Creating Scilab function and its execution.	1
10	Numerical Methods to find roots of a given of a given function:	1

	(a) Bisection Method (b) Newton-Raphson Method.	
11	Interpolation (a) Lagrange's interpolation formula (b) Newton Gregory forward interpolation formula. (c) Newton Gregory backward interpolation formula.	1
12	Graph theory: Havel-Hakimi Theorem, Transitive closure.	1
13	Numerical Integration: (a) Trapezoidal Rule (b) Simpson's 1/3 rd Rule (c) Simpson's 3/8 th Rule	1
14	Characteristic Polynomial: Characteristic polynomial, its coefficients, roots(Eigen values), Derivation of Eigen Vectors using roots, Direct Derivation of Eigen Values and vectors using Spec(), Verify Cayley-Hamilton theorem using coefficients.	1
15	Numerical Methods for solution of Ordinary Differential Equations: (a) Euler Method (b) Euler's Modified Method (c) Runge-Kutta Second and Fourth order Method	1
16	Numerical Methods for solution of a system of Linear Equations: (Unique solution case only) (a) Gauss-Elimination Method. (b) Gauss-Jordan Method.	1

Recommended Books:

- 1) **R. G. Bartle and D. R. Sherbert**, Introduction to Real Analysis, Wiley India Pvt. Ltd., Fourth Edition 2016.
- 2) **S. C. Malik and Savita Arora**, Mathematical Analysis (Fifth Edition), New Age International (P) Limited, 2017

Reference Books:

- 1) **R. R. Goldberg**, Methods of Real Analysis, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
- 2) **D Somasundaram and B Choudhary**, First Course in Mathematical Analysis, Narosa Publishing House New Delhi, Eighth Reprint 2013

- 3) **P. K. Jain and S. K. Kaushik**, An Introduction to Real Analysis, S.Chand & Company Ltd. New Delhi, First Edition 2000
- 4) **Shanti Narayan and Dr. M. D. Raisinghania**, Elements of Real Analysis, S.Chand & Company Ltd. New Delhi, Fifteenth Revised Edition 2014
- 5) **Shanti Narayan and P. K. Mittal**, A Course of Mathematical Analysis, S.Chand & Company Ltd. New Delhi, Reprint 2016
- 6) **Dr. Hari Kishan**, Real Analysis, Pragati Prakashan, Meerut, Fourth Edition 2012
- 7) **SCILAB: A Practical Introduction to Programming and Problem Solving** [Print Replica] Kindle Edition by Tejas Sheth (Author)
- 8) **Scilab A Hands on Introduction** by Satish Annigeri .
- 9) **Engineering and Scientific Computing with Scilab 1999th** Edition by Claude Gomez (Editor), C. Bunks (Contributor), J.-P. Chancelier (Contributor), F. Delebecque (Contributor), M. Goursat (Contributor), R. Nikoukhah (Contributor), S. Steer (Contributor)
- 10) **Scilab: from Theory to Practice - I. Fundamentals Book by Philippe Roux**
- 11) Introduction to Scilab: For Engineers and Scientists **Book by Sandeep Nagar**

**SHIVAJI UNIVERSITY,
KOLHAPUR**



Accredited By NAAC with 'A' Grade

CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part -III Mathematics

SEMESTER V AND VI

(Syllabus to be implemented from June, 2020 onwards.)

B.Sc.Part-III [Semester V] (Credit - 8]

Course code	Title o the course	Instructio ns Lectures /Week	Duration of term end exam	Marks of Term end exam	Marks (Internal) Of Continuous Assessment	Credit
DSE E9	Mathematical Analysis	3	2 hours	40	10	2
DSE E10	Abstract Algebra	3	2 hours	40	10	2
DSE E11	Optimization Techniques	3	2 hours	40	10	2
DSE E12	Integral Transforms	3	2 hours	40	10	2

B.Sc.Part-III [Semester VI] (Credit - 8]

Course code	Title o the course	Instructions Lectures/Week	Duration of term end exam	Marks Term end exam	Marks (Internal) Of Continuous Assessment	Credit
DSE F9	Metric Spaces	3	2 hours	40	10	2
DSE F10	Linear Algebra	3	2 hours	40	10	2
DSE F11	Complex Analysis	3	2 hours	40	10	2
DSE F12	Discrete Mathematics	3	2 hours	40	10	2

Core Course Practical in Mathematics [CCPM IV to VII]

The practical examination will be conducted at the end of second term that is annual pattern

Total Credit 16

Course code	Title o the course	Instructions Lectures/Week	Duration of term end exam	Marks [End of academic year]	Credit
CCPM IV	Operations Research	5	6 hours	50	4
CCPM V	Laplace and Fourier Transforms	5	6 hours	50	4
CCPM VI	Mathematical Computation Using Python	5	6 hours	50	4
CCPM VII	Project, sturdy tour, viva.	5	6 hours	50	4

EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS (FOR REVISED SYLLABUS)

Sem - V

Old Paper number	Equivalence	New Course code	Title of the course
IX	Real Analysis	DSE E9	Mathematical Analysis
X	Abstract Algebra	DSE E10	Abstract Algebra
XII	Numerical Methods - I	DSE E11	Optimization Techniques
XI	Partial Differential Equations	DSE E12	Integral Transforms

Sem - VI

Old Paper number	Equivalence	New Course code	Title of the course
XIII	Metric spaces	DSE F9	Metric Spaces
XIV	Linear Algebra	DSE F10	Linear Algebra
XV	Complex Analysis	DSE F11	Complex Analysis
XVI	Numerical Methods	DSE F12	Discrete Mathematics

CCPM

Old course code	Equivalence	New Course code	Title of the course
CML – IV	Operations Research Techniques	CCPM IV	Operations Research
CML – V	Numerical Methods	CCPM V	Laplace and Fourier Transforms
CML – VI	Numerical Recipes in C++, SciLab	CCPM VI	Mathematical Computation Using Python
CML – VII	Project, study tour, viva.	CCPM VII	Project, study tour, Seminar, viva.

B.Sc. (Mathematics) (Part-III) (Semester-V)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – E9

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Title of Course: Mathematical Analysis

Marks – 40 (Credits: 02)

Course Objectives: The objectives of course is to understand and learn about

1. The integration of bounded function on a closed and bounded interval
2. Some of the families and properties of Riemann integrable functions
3. The applications of the fundamental theorems of integration
4. Extension of Riemann integral to the improper integrals when either the interval of integration is infinite or the integrand has infinite limits at a finite number of points on the interval of integration
5. The expansion of functions in Fourier series and half range Fourier series

Unit -1 : Riemann Integration

(16 hours)

Definition of Riemann integration, Inequalities for lower and upper Darboux sums, Necessary and sufficient conditions for Riemann integrability, Definition of Riemann integration by Riemann sum and equivalence of the two definitions, Riemann integrability of monotonic functions and continuous functions, Algebra and properties of Riemann integrable functions, First and second fundamental theorems of integral calculus, and the integration by parts.

Unit -2 : Improper Integrals and Fourier Series

(16 hours)

Improper Integrals: Definition of improper integral of first kind, Comparison test, μ – test for Convergence, Absolute and conditional convergence, Integral test for convergence of series, Definition of improper integral of second kind and some tests for their convergence, Cauchy principle value.

Fourier Series: Definition of Fourier series and examples on the expansion of functions in Fourier series, Fourier series corresponding to even and odd functions, half range Fourier series, half range sine and cosine series

Recommended Books:

1. **Kenneth.A.Ross**, Elementary Analysis: The Theory of Calculus, Second Edition, Undergraduate Texts in Mathematics, Springer, 2013.
(Chapter 6, Art. 32.1 to 32.11, 33.1 to 33.6 and 34.1 to 34.4)
2. **D Somasundaram and B Choudhary**, First Course in Mathematical Analysis, Narosa Publishing House New Delhi, Eighth Reprint 2013 (Chapter 8, Art. 8.5 and Chapter 10, Art. 10.1)

Reference Books:

1. **R.R.Goldberg**, Methods of Real Analysis, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
2. **R.G.Bartle and D.R.Sherbert**, Introduction to Real Analysis, Wiley India Pvt. Ltd., Fourth Edition 2016.
3. **Shanti Narayan and Dr.M.D.Raisinghania**, Elements of Real Analysis, S.Chand & Company Ltd. New Delhi, Fifteenth Revised Edition 2014
4. **Shanti Narayan and P.K.Mittal**, A Course of Mathematical Analysis, S.Chand & Company Ltd. New Delhi, Reprint 2016.
5. **Kishan Hari**, Real Analysis, Pragati Prakashan, Meerut, Fourth Edition 2012.

B.Sc. (Mathematics) (Part-III) (Semester-V)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – E10

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Title of Course: Abstract Algebra

Marks – 40 (Credits: 02)

Course Objectives: After successful completion of this course the students will able to

1. Basic concepts of group and rings with examples
2. Identify whether the given set with the compositions form Ring, Integral domain or field.
3. Understand the difference between the concepts Group and Ring.
4. Apply fundamental theorem, Isomorphism theorems of groups to prove these theorems for Ring.
5. Understand the concepts of polynomial rings, unique factorization domain.

Unit -1: Groups and Rings

16 hours

Groups: Definition and examples of groups, group S_3 and Dihedral group D_4 , Commutator subgroups and its properties, Conjugacy in group and class equation.

Rings: Definition and example of Rings, Ring with unity. Zero divisor, Integral Domain, Division Ring, Field, Boolean ring, Subring, Characteristic of a ring: Nilpotent and Idempotent elements. Ideals, Sum of two ideals, Examples. Simple Ring.

Unit-2: Homomorphism and Imbedding of Ring , Polynomial Ring and Unique Factorization Domain.

16 hours

Quotient Rings, Homomorphism, Kernel of Homomorphism ,Isomorphism theorems,imbedding of Ring. Maximal Ideals. Polynomial Rings, degree of Polynomial, addition and multiplication of Polynomials and their properties, UFD, Gauss' Lemma.

Recommended Books:

- 1) Vijay K. Khanna, S.K. Bhambri, A Course In Abstract Algebra, Vikas publishing House Pvt.Ltd., New –Delhi-110014, Fifth Edition 2016.
(Chap. 3 Art. The Dihedral Group, commutator, Chap. 4 Art. Conjugate elements, Chap.7 Art. Subrings, characteristic of a ring, Ideals, Sum of Ideals, Chap. 8 Art. Quotient rings, Homomorphisms, Embedding of Rings, More on Ideals, Maximal Ideals, Chap 9 Polynomial Rings, Unique Factorization Domain.)

Reference Books:

1. Jonh B. Fraleigh, A First Course in Abstract Algebra Pearson Education, Seventh Edition(2014).
2. Herstein I. N, Topics in Algebra, Vikas publishing House,1979.
3. Malik D. S. Moderson J. N. and Sen M. K., Fundamentals of Abstract Algebra, McGrew Hill,1997.
4. Surjeet Sing and Quazi Zameeruddin, Modern Algebra, Vikas Publishing House,1991.
5. N.Jacobson, Basic Algebra Vol. I&II, Freeman and Company, New York 1980.

B.Sc. (Mathematics) (Part-III) (Semester-V)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – E11

Title of Course: Optimization Techniques

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Marks – 40 (Credits: 02)

Course Objectives: The aim of this course is to

1. provide student basic knowledge of a range of operation research models and techniques, which can be applied to a variety of industrial and real life applications.
2. Formulate and apply suitable methods to solve problems.
3. Identify and select procedures for various sequencing, assignment, transportation problems.
4. Identify and select suitable methods for various games .
5. To apply linear programming and find algebraic solution to games.

Unit-1 Network optimization models :

[16 hours]

Introduction ,Formulation of Linear Programming Problems., Graphical methods for Linear Programming problems. General formulation of Linear Programming problems, Slack and surplus variables, Canonical form, Standard form of Linear Programming problems. Transportation problem: Introduction, Mathematical formulation ,Matrix form of Transportation problem. Feasible solution, Basic feasible solution and optimal solution, Balanced and unbalanced transportation problems. Methods of Initial basic feasible solutions: North west corner rule [Stepping stone method], Lowest cost entry method [Matrix minima method], Vogel's Approximation method [Unit Cost Penalty method] ,The optimality test.[MODI method], Assignment Models :Introduction ,Mathematical formulation of assignment problem, Hungarian method for assignment problem. Unbalanced assignment problem. Travelling salesman problem.

Unit-2 Quantitative techniques:

[16 hours]

Game theory: Basic definitions , Minimax [Maximin] Criterion and optimal strategy, Saddle point , optimal strategy and value of game. Solution of games with saddle point. Fundamental theorem of game theory [Minimax theorem] , Two by two (2 X 2) games without saddle point. Algebraic method of Two by two (2 X 2) games. Arithmetic method of Two by two (2 X 2) games. Graphical method for 2 x n games and m x 2 games. Principle of dominance, Job sequencing : Introduction. Terminology and notations. Principal assumptions. Solution of sequencing problems. Processing n jobs through 2 machines. Processing n jobs through 3 machines. Processing 2 jobs through m machines. Processing n jobs through m machines.

Recommended Book:

1. Sharma S.D., Operations Research - Theory Methods and Applications”Kedarnath, Ramnath Meerut, Delhi Reprint 2015.

Reference Books:

1. Mohan, C. and Deep, Kusum, Optimization Techniques, New Age, 2009.
2. Mittal, K. V. and Mohan, C., Optimization Methods in Operations, Research and Systems Analysis, New Age, 2003.
3. Taha, H.A. :Operations Research – An Introduction, Prentice Hall, (7th Edition), 2002.
4. Ravindran, A. , Phillips, D. T and Solberg, J. J., Operations Research: Principles and Practice, John Wiley and Sons, 2nd Edition, 2009.
5. J.K. Sharma : Operation Research: Theory and Applications, Laxmi Publications, 2017.
6. Kanti Swarup, P.K. Gupta and Manmohan, Operation Research, S.Chand & Co.
7. G. Hadley: Linear programming , Oxford and IBH Publishing Co.

B.Sc. (Mathematics) (Part-III) (Semester-V)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – E12

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Title of Course: Integral Transforms

Marks – 40 (Credits: 02)

Course Objective : Students be able to

1. understand concept of Laplace Transform.
2. apply properties of Laplace Transform to solve differential equations.
3. understand relation between Laplace and Fourier Transform.
4. understand infinite and finite Fourier Transform.
5. apply Fourier transform to solve real life problems.

Unit: 1 Laplace and Inverse Laplace Transform.

16 Hours

Laplace Transform : Definitions; Piecewise continuity, Function of exponential order, Function of class A, Existence theorem of Laplace transform. Laplace transform of standard functions. First shifting theorem and Second shifting theorem and examples, Change of scale property and examples, Laplace transform of derivatives and examples, Laplace transform of integrals and examples. Multiplication by power of t and examples. Division by t and examples. Laplace transform of periodic functions and examples. Laplace transform of Heaviside's unit step function. Inverse Laplace Transform: Definition Standard results of inverse Laplace transform, Examples, First shifting theorem and Second shifting theorem and examples. Change of scale property and Inverse Laplace of derivatives, examples. The Convolution theorem and Multiplication by S , examples. Division by S , inverse Laplace by partial fractions, examples, Solving linear differential equations with constant coefficients by Laplace transform.

Unit 2 Fourier Transform

16 Hours

The infinite Fourier transform and inverse: Definition examples Infinite Fourier sine and cosine transform and examples. Definition: Infinite inverse Fourier sine and cosine transform and examples. Relationship between Fourier transform and Laplace transform. Change of Scale Property and examples. Modulation theorem. The Derivative theorem. Extension theorem.

Convolution theorem and examples. Finite Fourier Transform and Inverse, Fourier Integrals :

Finite Fourier sine and cosine transform with examples. Finite inverse Fourier sine and cosine transform with examples. Fourier integral theorem. Fourier sine and cosine integral (without proof) and examples.

Recommended Book:

1. J.K.Goyal, K.P.Gupta, Laplace and Fourier Transforms, A Pragati Edition (2016).

Reference Books:

1. Dr.S.Shrenadh, Integral Transform, S.ChandPrakashan.
2. B.Davies, Integral Transforms and Their Applications, Springer Science Business Media LLC(2002)
3. Murray R. Spiegel, Laplace Transforms, Schaum's outlines.

B.Sc. (Mathematics) (Part-III) (Semester–VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – F9

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Title of Course: Metric Spaces

Marks – 40 (Credits: 02)

Course objectives : Upon successful completion of this course, the student will be able to:

1. acquire the knowledge of notion of metric space, open sets and closed sets.
2. demonstrate the properties of continuous functions on metric spaces,
3. apply the notion of metric space to continuous functions on metric spaces.
4. understand the basic concepts of connectedness, completeness and compactness of metric spaces,
5. appreciate a process of abstraction of limits and continuity to metric spaces,

Unit –1 Limits and Continuous Functions on Metric Spaces 16 hours

Limit of a function on the real line, Metric Spaces, Limits in Metric Spaces, Functions continuous at a point on the real line, Reformulation, Functions continuous on a metric space, Open Sets, Closed Sets, More about open sets.

Unit 2: Connectedness, Completeness and Compactness 16 hours

Connected Sets, Bounded sets and totally bounded sets, Complete metric spaces, Compact metric spaces, Continuous functions on compact metric spaces.

Recommended Book:

1. R. R. Goldberg, Methods of Real Analysis, Oxford and IBH Publishing House. (2017).

Reference Books:

1. T. M. Apostol, Mathematical Analysis, Narosa Publishing House. (2002)
2. Satish Shirali, H. L. Vasudeva, Mathematical Analysis, Narosa Publishing House. (2013)
3. D. Somasundaram, B. Choudhary, First Course in Mathematical Analysis, Narosa Publishing House, (2018).
4. W. Rudin, Principles of Mathematical Analysis, McGraw Hill Book Company (1976).
5. Shantinarayan, Mittal, A Course of Mathematical Analysis, S. Chand and Company (2013).
6. J.N. Sharma, Mathematical Analysis-I, Krishna Prakashan Mandir, Meerut. (2014)
7. S.C. Malik, Savita Arora, Mathematical Analysis, New age International Ltd (2005).

B.Sc. (Mathematics) (Part-III) (Semester–VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – F10

Title of Course: Linear Algebra

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Marks – 40 (Credits: 02)

Course Objectives: Upon successful completion of this course, the student will be able to:

1. understand notion of vector space, subspace, basis.
2. understand concept of linear transformation and its application to real life situation.
3. work out algebra of linear transformations.
4. appreciate connection between linear transformation and matrices.
5. work out eigen values, eigen vectors and its connection with real life situation.

Unit 1: Vector Spaces and Linear Transformations

(16 hours)

Vector space: Subspace, Sum of subspaces, direct sum, Quotient space, Homomorphism or Linear transformation, Kernel and Range of homomorphism, Fundamental Theorem of homomorphism, Isomorphism theorems, Linear Span, Finite dimensional vector space, Linear dependence and independence, basis, dimension of vector space and subspaces.

Linear Transformation: Rank and nullity of a linear transformation, Sylvester's Law, Algebra of Linear Transformations, Sum and scalar multiple of Linear Transformations. The vector space of Homomorphisms, Product (composition) of Linear Transformations, Linear operator, Linear functional, Invertible and non-singular Linear Transformation, Matrix of Linear Transformations and its examples.

Unit 2: Inner Product Spaces, Eigen values and Eigen vectors

(16 hours)

Inner product spaces: Norm of a vector, Cauchy- Schwarz inequality, Orthogonality, Generalized Pythagoras Theorem, orthonormal set, Gram-Schmidt orthogonalization process, Bessel's inequality, Eigen values and Eigen vectors: Eigen space, Characteristic Polynomial of a matrix and remarks on it, similar matrices, Characteristic Polynomial of a Linear operator, Examples and real life (Predatory – Prey problem), examples on eigen values and eigen vectors.

Recommended Book:

1. Khanna V. K. and Bhambri S. K., **A Course in Abstract Algebra**, Vikas Publishing House PVT Ltd., New Delhi, 2016, 5th edition,

Reference Books:

1. H. Anton & C. Rorres, **Elementary Linear Algebra** (with Supplemental Applications), Wiley India Pvt. Ltd (Wiley Student Edition), New Delhi, 2016, 11th Edition.
2. S. Friedberg, A. Insel and L. Spence, **Linear Algebra**, Prentice Hall of India, 2014, 4th Edition.
3. Holfman K. and Kunze R., **Linear Algebra**, Prentice Hall of India, 1978.
4. Lipschutz S., **Linear Algebra**, Schaum's Outline Series, McGraw Hill, Singapore, 1981.
5. David Lay, Steven Lay, Judi McDonald, **Linear Algebra and its Applications**, Pearson Education Asia, Indian Reprint, 2016, 5th Edition.

B.Sc. (Mathematics) (Part-III) (Semester–VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – F11

Title of Course: Complex Analysis

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Marks – 40 (Credits: 02)

Course objectives: Upon successful completion of this course, Students will

1. learn basic concepts of functions of complex variable.
2. be introduced to concept of analytic functions.
3. learn concept of complex integration and basic results thereof.
4. be introduced to concept of sequence and series of complex variable.
5. learn to apply concept of residues to evaluate certain real integrals.

Unit 1 : Analytic functions and Complex Integration

16 hours

Basic algebraic and geometric properties of complex numbers, Function of complex variable, Limits, continuity and differentiation, Cauchy Riemann equations, Analytic functions and examples of analytic functions, Exponential function, Logarithmic function, Trigonometric function, Definite integrals of functions, Contours, Contour integrals and its examples, upper bounds for moduli of contour integrals, Cauchy-Goursat theorem and examples, Cauchy integral formula and examples, Liouville's theorem and the fundamental theorem of algebra.

Unit 2 : Sequences, Series and Residue Calculus

16 hours

Convergence of sequences and series of complex variables, Taylor series and its examples, Laurent series and its examples, absolute and uniform convergence of power series, Isolated singular points, Residues, Cauchy's residue theorem, Residue at infinity, The three types of isolated singularities, Residues at poles and examples, Zeros of analytic functions, Zeros and poles, Application of residue theorem to evaluate real integrals.

Recommended book:

1. James Ward Brown and Ruel V. Churchill, *Complex Variables and Applications*, 8th Ed., McGraw – Hill Education (India) Edition, 2014. Eleventh reprint 2018.

Reference books:

1. S.Ponnusamy, *Foundations of Complex Analysis*, Narosa Publishing House, Second Edition , 2005, Ninth reprint 2013.
2. Lars V Ahlfors, *Complex Analysis*, McGraw-Hill Education; 3 edition (January 1, 1979).
3. S.B.Joshi, T.Bulboaca and P.Goswamy, *Complex Analysis, Theory and Applications*, DeGruyter, Germany(2019).

B.Sc. (Mathematics) (Part-III) (Semester-VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: DSE – F12

Title of Course: Discrete Mathematics

Theory: 32 Hrs. (40 Lectures of 48 minutes)

Marks – 40 (Credits: 02)

Course Objectives: Upon successful completion of this course, Students will be able to

1. use classical notions of logic: implications, equivalence, negation, proof by contradiction, proof by induction, and quantifiers.
2. apply notions in logic in other branches of Mathematics.
3. know elementary algorithms : searching algorithms, sorting, greedy algorithms, and their complexity.
4. apply concepts of graph and trees to tackle real situations.
5. appreciate applications of shortest path algorithms in computer science.

Unit 1 : Mathematical Logic

[16 hours]

The logic of compound statements: Statements, compound statements, truth values, logical equivalence, tautologies and contradictions, Conditional statements: Logical equivalences involving implication, negation. The contrapositive of a conditional statements, converse, inverse of a conditional statements, biconditional statements. Valid and invalid arguments: Modus Ponens and modus Tollens, Additional valid argument forms, rules of inferences, contradictions and valid arguments, Number system: Addition and subtraction of Binary, decimal, quinary, octal, hexadecimal number systems and their conversions.

Unit 2: Graphs and trees

[16 hours]

Graphs : Definitions, basic properties, examples, special graphs, directed and undirected graphs, concept of degree, Trails, Paths and Circuits: connectedness, Euler circuits, Hamiltonian circuits, Matrix representation of graphs, Isomorphism of graphs, isomorphic invariants, graph isomorphism for simple graphs.

Trees: Definitions and examples of trees, rooted trees, binary trees and their properties. spanning trees , minimal spanning trees, Kruskal's algorithm , Prim's algorithm, Dijkstra's shortest path algorithm.

Recommended Book:

1. Susanna S. Epp, Discrete Mathematics with Applications, PWS Publishing Company, 1995. (Brooks/Cole, Cengage learning, 2011)

References Books :

1. Kenneth H. Rosen, Discrete Mathematics and its Applications, McGraw Hill, 2002.
2. J.P. Tremblay and R. Manohar, Discrete Mathematical Structure with Applications, McGraw– Hill.
3. V. Krishnamurthy, Combinatorics: Theory and Applications”, East-West Press.
4. Kolman, Busby Ross, Discrete Mathematical Structures, Prentice Hall International.
5. R M Somasundaram, Discrete Mathematical Structures, (PHI) EEE Edition 7.
6. A.B.P. Rao and R.V. Inamdar, A Graduate Text in Computer Mathematics, SUMS [1991]
7. Seymour Lipschutz and Marc Lipson, Discrete Mathematics, Schaum's Outlines Series, Tata McGraw - Hill.
8. Mathematical Foundations of Computer Science: professional publications, JNTU Hyderabad.
11. Liu C. L, Elements of Discrete Mathematics, McGraw – Hill.

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B.Sc. (Mathematics) (Part-III) (Semester–V & VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: CCPM IV

Title of Course: Operation Research

Sr.No.	Title of the experiment	Sessions
1	Graphical method for linear programming problems	1
2	Transportation Problems[North west corner rule]	1
3	Transportation Problems[Lowest Cost Entry Method]	1
4	Transportation Problems[Vogel Approximation Method]	1
5	Transportation Problems[Test for Optimality MODI method]	1
6	Assignment Problems [Hungarian Method]	1
7	Assignment Problems [Maximization Case]	1
8	Assignment Problems[Travelling Salesman Problem]	1
9	Assignment Problems[Unbalanced Problem]	1
10	Two by two (2 X 2) games without saddle point.	1
11	Algebraic method of Two by two (2 X 2) games.	1
12	Arithmetic method of Two by two (2 X 2) games.	1
13	Graphical method for 2 x n games and m x 2 games.	1
14	Processing n jobs through 2 machines.	1
15	Processing n jobs through 3 machines.	1
16.	Processing 2 jobs through m machines. Processing n jobs through m machines.	1
	Total	16

B.Sc. (Mathematics) (Part-III) (Semester–V & VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: CCPM V

Title of Course: Laplace and Fourier Transform

Sr.No.	Title of the experiment	Sessions
1	Laplace transform of elementary functions	1
2	Evaluation of integrals using properties of Laplace transform	1
3	Effect of multiplication	1
4	Effect of division	1
5	Laplace transform of integrals	1
6	Laplace transform of periodic functions	1
7	Inverse Laplace by using standard results	1
8	Inverse Laplace by Convolution theorem	1
9	Inverse Laplace by partial fractions	2
10	Infinite Fourier sine transform and inverse	1
11	Infinite Fourier cosine transform and inverse	1
12	Change of scale property of Fourier transform	1
13	Convolution theorem of Fourier transform	1
14	Finite Fourier sine transform and inverse	1
15	Finite Fourier cosine transform and inverse	1
	Total	16

B.Sc. (Mathematics) (Part-III) (Semester–V & VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: CCPM VI

Title of Course: **Mathematical Computation Using Python**

Sr. No.	Topic	No. Of Practicals
1	Introduction to Python: Python, Anaconda, Spyder IDE, Python Identifiers and Keywords , data types, simple mathematical operation, Indentation and Comments., Input and Output, First Python program.	1
2	Expression and operators: Expression, Boolean expression, logical operations: comparison operator, membership operator, identity operator, bitwise operator. Order of evaluation. File Handling : open, read, write, append modes of file.	1
3	Conditional Statements: if-else, nested if-else, if-elif-else, try-except block.	1
4	Looping Statements, Control statements: Looping Statements: for loop, while loop , Nested loops Control Statements: break, continue and pass.	1
5	Functions: Built-in functions, User-defined functions, Arguments, recursive function, Python Anonymous/Lambda Function, Global, Local and Nonlocal variables and return statement.	1
6	Modules and packages in Python : Modules, import, import with renaming, from-import statement, math module ,cmath module , random module, packages.	1
7	Python Data structure: Strings, list, tuples, dictionary, set and array.	1
8	Operations on set and array: Set operations, Intersection, union, difference, symmetric difference, searching and sorting.	1
9	Systems of linear algebraic equations: Gauss Elimination Method, LU Decomposition Methods	1
10	Roots of Equations: Bisection, Newton-Raphson Method	1
11	Initial Value Problems: Euler’s Method, Runge-Kutta Methods.	1
12	Magic square and Area calculation without measurement.	1
13	Graph Theory : Networkx Graph, nodes, edges, directed graph, multigraph, drawing graph, Google page rank by random walk method	1
14	Collatz conjecture and Monte Hall problem	1
15	Data compression using Numpy	1
16	Data visualization in Python: 2D and 3D plot in python : line plot, bar plot, histogram plot, scatter plot, pie plot, area plot, Mandelbrot fractal set visualization.	1
	Total	16

Recommended Book:

1. JaanKiusalaas, *Numerical Methods in Engineering with Python3*, Cambridge University Press.
2. Amit Saha, *Doing Math with Python*, No Starch Press, 2015.
3. YashwantKanetkar and Aditya Kanetkar, *Let Us Python*, BPB Publication, 2019.

B.Sc. (Mathematics) (Part-III) (Semester–V & VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: CCPM VII

Title of Course: Project, Study- Tour, Viva – Voce

A :PROJECT [30 Marks]

Each student of B.Sc. III is expected to read, collect, understand the culture of Mathematics, its historic development. He is expected to get acquainted with Mathematical concepts, innovations, relevance of Mathematics. Report of the projectwork should be submitted through the respective Department of Mathematics. Evaluation of the project report will be done by the external examiners at the time of annual examination.

B. STUDY TOUR [05 Marks] :

It is expected that the tour should contain at least renown academic institution so that the visiting students will be inspired to go for higher studies in Mathematics.

C. SEMINARS: [05 Marks]

Students should present a seminar before the B.Sc.III class on some topic in Mathematics.

D. VIVA-VOCE (on the project report). [10 Marks]

Nature of Question papers (Theory)

Common nature of question for theory paper mentioned separately:

There will be practical at the end of second term that is annual pattern,

Nature of Practical Question Paper

(1) Core Course Mathematics Practicals - IV

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

(2) Core Course Mathematics Practicals - V

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

(3) Core Course Mathematics Practicals - VI

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

(4) Core Course Mathematics Practicals - VII

This carries 50 marks.

Project : 30 Marks (External Examiner)

Study Tour : 05 Marks (External Examiner)

Seminar : 05 Marks (External Examiner)

Viva Voce : 10 Marks (External Examiner)

Note : Each student of a class will select separate topic for project work. He/ She should submit the reports of his / her project work , Study tour report to the department and get the same certified.

Teaching Periods :

(i) Total teaching periods for Paper –DSE E-9, E-10,E-11,E-12, F-9,F-10, F-11,F-12 are 12 (Twelve) per week. 3 (Three) periods per paper per week.

(ii) Total teaching periods for CCPM-IV, V,VI,VII for the whole class are 20 (Twenty) per week. 5 (Five) periods per Lab. Perweek.