PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA
KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405
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Jr. College Index No. J 22.04.002

ANNUAL TEACHING PLAN

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli.

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Padmabhushan Vasantraodada Patil Mahavidyalaya,
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DEPARTMENT OF ENGLISH

TEACHING PLAN

Academic Year

2023-24

FACULTY LIST

I) Mr. Kamble S. S.

II) Mr. Shinde N. P.

III) Dr. Solage S. P.

IV) Mr. Gadhire S. S.

V) Mr. Shinde R. R.

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Mr. Kamble S. S.

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DEPARTMENT OF ENGLISH
Annual Teaching Plan
Academic Year: 2023-24
Class: BA-I
Subject: English Compulsory (Semester- II)
Paper Title: English for Communication

Month	Topic/Unit	Subunits Planned
DECEMBER	Module V: A) Making Inquiries	• To acquaint skills of language for making inquiries • Giving Instructions
	Module V: B) The Lost Child – Mulk Raj Anand	• Summary of the Story • Detailed study of the story
JANUARY	Module VI: A) Telephonic Communication	• Speaking English on Telephone • Telephonic Convrsation
	Module VI: B) To My Countrymen – APJ Abdul Kalam	• Summary • Detailed study of the lesson
FEBRUARY	Module VII: A) Description	• Description of the People, Places and Things • Exercises
	B) A Village Girl – Mohan Singh	• Summary of the poem • Detailed study of the poem
	Module VIII: A) My Elder Brother	• Summary of the story • Detailed study of the story
MARCH	Module VIII: B) The Tiger – William Blake	• Summary of the poem • Detailed Study of the poem
APRIL	C) A Poet – Chandrakant Patil	• Summary of the poem • Detailed Study of the poem
	Revision	• Revision
MAY	Examination	• Examination

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Annual Teaching Plan

Academic Year: 2023-24

Class: B. A. I Core Generic Elective (CGE-3)

(Semester-I) (Paper-I)

Subject: Additional English

Paper Title: **An Introduction to Literature: Poetry**

Month	Topic/Unit	Subunits Planned
JULY	**Module I** **A)** Definitions, Nature, Origin and Function of Poetry	❖ Poetry ❖ Definitions and Meaning ❖ Nature ❖ Origin ❖ Function
AUGUST	**B)** Poetical Types: Lyrical, Ode, Sonnet, Elegy and Ballad	❖ Poetical Types ❖ Definition ❖ Meaning with examples ❖ Features
	Module II: **A)** One Day I Wrote Her Name	❖ About the Poet ❖ Summary of the Poem
	B) Let Me Not to Marriage	❖ About the Poet ❖ Summary of the Poem
SEPTEMBER	**C)** On His Blindness	❖ About the Poet ❖ Background of the Poem ❖ Summary of the Poem
	D) Ozymandias	❖ About the Poet ❖ History of the Ozymandias ❖ Summary of the Poem ❖ Themes
	Module III: **A)** Daffodils	❖ Poem ❖ Critical Appreciation of the Poem

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Annual Teaching Plan

Academic Year: 2023-24

Class: B. A. I Core Generic Elective (CGE-15)

(Semester-II) (Paper-I)

Subject: Additional English

Paper Title: **An Introduction to Literature: Short Story**

Month	Topic/Unit	Subunits Planned
DECEMBER	**Module V:** **A)** Definition, Origin and Characteristics of the Short Story	• Introduction to the genre: Short Story • Definition, Origin and Characteristics of the Short Story
	B) Elements of the Short Story	• Plot • Characteristics • Point of View • Setting • Theme • Style
JANUARY	**Module VI:** **A)** A Day's Wait	• About the Author • Summary of the Story • Detailed Study of the Story • Theme
	B) Grain as big as a Hen's Egg	• About the Author • Introduction to the • Characters • Detailed Summary of the Story • Theme
FEBRUARY	**Module VII:** **A)** Wrong Man in Works Paradise	• Introduction to the Author • Characterisation • Summary • Themes
	B) Carpet	• Detailed Study of the Story • Untouchability

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		• Casteism
MARCH	**Module VIII:** **A)** The Childness One	• Introduction to the author • Detailed Study of the Story • Characterization • Theme
	B) The Only American from Our Village	• About the Author • Summary • Characterization • Theme
APRIL-MAY	**Revision**	**Revision**
	Examination	**Examination**

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DEPARTMENT OF ENGISH

Annual Teaching Plan
Academic Year: 2023-24
Class: BA-II
Subject: English Compulsory (Semester- III)
Paper Title: English for Communication

Month	Topic/ Unit	Planned Subunits
JULY	**Module I**: A) Oral Skills	• Differentiation between Spoken Text and Written Text. • Power Point Presentation. • Script for Welcome Function.
	B) A Real Good Smile – Bill Naughton	• Discussion of outline of the Essay • Detailed Study of the Essay
	C) Mending Wall -Robert Frost	• Discussion about Poet • Summary of the Poem • Detailed Study of the Poem
AUGUST	**Module II:** A) Conversations Skills	• Introduction of the topic • Asking the permission • Expression of Agreement and Disagreement
	B) The Highway- Ray Bradbury	• Discussion of the Story • Detailed study of the story
SEPTEMBER	**Module III:** Developing Writing Skills	• Study of Report Writing • How to write well organized Paragraph
	B) Whitewashing the Fence	• Discussion about Essay and Author • Detailed study of the Essay
OCTOBER	**Module IV: A)** Father Returning Home- Dilip Chitre	• About Poet and Poem • Theme • Detailed Study of the Poem

	B) There is Garden in Her Face – Thomas Campion	• About Poet and Poem • Detailed Study of the Poem
NOVEMBER	**REVISION**	REVISION
	Examinations	• Examinations

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DEPARTMENT OF ENGLISH

Annual Teaching Plan

Academic Year: 2023-24

Class: BA-III (Semester- V)

Subject: English Compulsory

Paper Title: Ability Enhancement Comp. Course (CBCS)

English for Communication

Month	Topic/Unit	Subunits Planned
JULY	Module I: A) Interview Skills	• Preparation for Interview • Facing Interview • Don'ts at the time of Interview • Personality traits • Interview Questions • A Model Interview
	B) The Interview – V. V. John	• Detailed study of the extract of V. V. John
AUGUST	Module II : A) Grammar for Competitive Examination	• Word Formation/ Vocabulary • Use of Phrases • Use of Tenses • Transformation of Sentences • Active and Passive Voice
	B) The Lottary	• Summary of short- story • Detailed study of short-story
	Module III : A) Writing Skills for Competitive Examination	• Letter Writing - Official/Formal - Complaint Letter - Letter of Inquiry - Informal of Personal letter - Family letters - Condolence Letter • Essay Writing – Types Precise Writing – Guidelines

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SEPTEMBER	Module III : B) After Twenty Years – O' Henry	• Summary of story • Detailed study of story
	Module IV: A) I Shall Return to This Bengal – Jibanananda Das	• Summary of the poem • Trauma of Partition • Detailed study of poem
OCTOBER	Module IV: B) Songs of Youth – APJ Abdul Kalam	• Summary of the poem • Vision of APJ Abdul Kalam • Detailed study of poem
	C) The Orphan Girl – Henry Derozio	• Summary of the poem • Social Treatment/ System • Detailed study of the poem
	Module III/IV: A) Writing Skills for Competitive Examination	• Letter Writing • Essay Writing • Precise Writing
NOVEMBER	B) Grammar for Competitive Examination	• Grammar • Vocabulary • Use of Phrases/ Tenses • Active and Passive Voice
	Examination	• Examination

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Annual Teaching Plan

Academic Year: 2023-24

Class: BA-III (Semester- VI)

Subject: English Compulsory

Paper Title: Ability Enhancement Comp. Course (CBCS)
English for Communication

Month	Topic/Unit	Subunits Planned
DECEMBER	Module V: A) Group Discussion	❖ Initiating the Group Discussion ❖ Inviting comments / opinions ❖ Expressing Agreement and Disagreement ❖ Breaking into the discussion ❖ Making suggestions
	B) The Light House Keeper of Aspin Wall – Henry SienKiewicz	❖ Summary of the story ❖ Detailed study of the story
JANUARY	Module VI: A) Note –making and Note-taking	❖ Note – making ❖ Note – taking: Imp things ❖ Methods of Note-making ❖ Importance of Note – making and Note – taking
	B) Three Questions – Leo Tolstoy	❖ Summary of the story ❖ Importance of Learning skill ❖ Detailed study of the story
FEBRUARY	Module VII: A) Media Writing	❖ Journalistic Writing ❖ Editing for Print and online media ❖ Radio Script ❖ Script Writing for T.V.

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	B) Eight Ruppes – Murali Das Melwani	❖ Summary of the story ❖ Detailed study of the story
MARCH	Module VIII : A) The Mystic Drum – Gabriel Okara	❖ Summary of the poem ❖ Detailed study of the poem
	B) Two Dead Soldiers – Jean Arasanayagam	❖ Summary of the poem ❖ Futility of war ❖ Detailed study of the Poem
APRIL	C) Bora Ring – Judith Wright	❖ Summary of an elegy ❖ Colonization Impact ❖ Detailed study of the Poem
	Project Writing	❖ Project Writing
MAY	Examination	❖ Examination

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		4. Cecily 5. Lady Bracknell 6. Dr. Chasuable
SEPTEMBER	Module III: The Importance of Being Earnest – Oscar Wilde	• Wit and Humour in theplay • Importance of Being Earnest As a Comedy of Manners • Paradox, Epigram andIrony • Themes • A Trival Comedy • Comments
OCTOBER	Hamlet – William Shakespeare	• Introduction of Dramatist • Shakespeare's Dramatic career • Introduction to characters • Date of composition • Detailed story of Hamlet:Act wise • A Critical Appreciation
NOVEMBER	Hamlet – William Shakespeare	• Characterization: Hamlet/Ophelia / Claudius / Polonius / Horatio etc. • The Nunnary Scene • The Play Scene • Closet Scene
	Hamlet – William Shakespeare	• Solilolques • Problem of Madness • Hamlet: A Revenge Play • Problem of Delay • Comments
	Examination	**Examination**

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DEPARTMENT OF ENGLISH
Annual Teaching Plan
Academic Year: 2023-24
Class: BA- III (Semester VI) Paper XIV
Subject: English Drama (CBCS)
Paper Title: English Drama (Paper XIV)

Month	Topic/Unit	Subunits Planned
DECEMBER	Module V: A) Types of Drama	• Tragedy • Comedy • Satire • Problem Play • Comedy of Humour • The Genteel Comedy • Sentimental Comedy
JANUARY	Module VI: A) Comedy As a Farm	• Definition • Meaning and Nature • Sources of comedy • Types: 1. Classical 2. Romantic • Shakespearean comedy: Features • Comedy of Humour • Comedy of Manners • Sentimental Comedy • Farce • Comedy of Intrigue • Genteel Comedy
FEBRUARY	Module VII : A) Nagamandala – Girish Karnad	• Girish Karnad: As a Dramatist • Nagamandala: A Folk-tale play • Introduction to characters • Prologue • Detailed summary: ActI, Act II • Critical Analysis • Characterization • Social Truth

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MARCH	Module VIII: A) Havest – Manjula Padamnabhan	• Manjula Padamnabhan : As a Dramatist • Introduction to characters • Story: chapter wise • Theme of play • Characterization • Dramatic Technique • Plot construction • Critical Analysis
APRIL	Project Work	• Project Work
MAY	Examination	• Examination

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DEPARTMENT OF ENGLISH

Annual Teaching Plan

Academic Year: 2023-24

Class: BA- I (Semester I) Paper I (DSA-A3)
Subject: Optional English
Paper Title: Modern Indian Writing in English Translation

Month	Topic/ Unit	Planned Subunits
July	**Unit-I** • Short Story as a Minor form of Literature: Characteristics & Features	• Departmental Orientation & Introduction to CO/PO/PSO • Origin & Development of Short Story. • Short Story: Definitions & Characteristics • Elements of Short Story
August	**Unit- II:** • Short story as Minor Form of Literature: Types	• Types of Short Story i. Anecdote ii. Legend iii. Fable iv. Parable v. Fairy Tales
September	**Unit-III:** • Premchand's **'The Shroud'** • Saratchandra Chatterjee's **'Laloo'**	• **The Shroud** Introduction to Author & Contribution to the literature i. Plot ii. Characters iii. Theme iv. Setting • **Lallo** Introduction to Author & Contribution to the literature i. Plot ii. Characters iii. Theme iv. Setting **Unit Test**
October	**Unit-IV:** • Gurudial Singh's **'A Season of No Return'**	• **A Season of No Return** Introduction to Author & Contribution to the literature i. Plot ii. Characters iii. Theme iv. Setting **Unit Test**

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Annual Teaching Plan

Academic Year: 2023-24

Class: BA- I (Semester II) Paper II (DSC-A15)
Subject: Optional English
Paper Title: Modern Indian Writing in English Translation

Month	Topic/ Units	Planned Subunits
December	**Unit I:** • **Rabindranath Tagore** i. Light! Oh Where is the Light?	• Introduction to the life and work of Rabindranath Tagore • Contribution of Rabindranath Tagore to the Indian Literature • Introduction to the Poem • Critical Analysis of the poem.
January	**Unit-I:** • **Rabindranath Tagore** ii. When My Play was With Thee	• Background of the Poem • Critical Analysis of the Poem • Theme & Symbols in the poem. **UNIT TEST**
February	**Unit I:** • **Amrita Pritam** i. I Say Unto Waris Shah	• **Introduction to the poet Amrita Pritam & her contribution to the Indian English Literature.** • Partition & Amrita Pritam • Background of the poem. • Critical Analysis of the Poem.
March	**Unit-II** • **G. M. Muktibodh** i. The Void ii. So Very Far	• Introduction to the poet G. M. Muktibodh & his contribution to the Indian English Literature. **I. The Void** • Critical Analysis of the Poem. **II. So Very Far** • Critical Analysis of the Poem **UNIT TEST**
April	**Unit-III & Unit- IV:** **A)** Satish Alekar's The Dread Departure	• **The Dread Departure** i. Sources of the Play ii. Type of the play iii. The setting of the play iv. The structure of the play v. Outline story of the play
May	**Unit-III & Unit- IV:** **A)** Satish Alekar's The Dread Departure	• **The Dread Departure** i. Act -wise Summary ii. Characters of the play **UNIT TEST**
	Examinations	• **Examinations**

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Annual Teaching Plan
Academic Year: 2022-23
Class: BA-II
Subject: English Compulsory (Semester- III)
Paper Title: English for Communication

Month	Topic/ Unit	Planned Subunits
August	**Module I**: A) Oral Skills	• Differentiation between Spoken Text and Written Text. • Power Point Presentation. • Script for Welcome Function.
	B) A Real Good Smile – Bill Naughton	• Discussion of outline of the Essay • Detailed Study of the Essay
	C) Mending Wall -Robert Frost	• Discussion about Poet • Summary of the Poem • Detailed Study of the Poem
September	**Module II:** A) Conversations Skills	• Introduction of the topic • Asking the permission • Expression of Agreement and Disagreement
	B) The Highway- Ray Bradbury	• Discussion of the Story • Detailed study of the story
October	**Module III:** Developing Writing Skills	• Study of Report Writing • How to write well organized Paragraph
	B) Whitewashing the Fence	• Discussion about Essay and Author • Detailed study of the Essay
November	**Module IV: A)** Father Returning Home- Dilip Chitre	• About Poet and Poem • Theme • Detailed Study of the Poem
	B) There is Garden in Her Face – Thomas Campion	• About Poet and Poem • Detailed Study of the Poem
December	**Examinations**	• Examinations

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Annual Teaching Plan
Academic Year: 2022-23
Class: BA-II
Subject: English Compulsory (Semester- IV)
Paper Title: English for Communication

Month	Topic/ Unit	Planned Subunits
January	**Module V:** **A)** E-Communication	• Introduction • Official e-Mail Writing • E-Mail Discussion Group
	B) Preparation for England – M. K. Gandhi	• Introduction • Detailed Study of the Essay
February	**Module VI:** **A)** Information Transfer and Interpretation of the Data	• Study of Table Diagrams -Tree Diagram -Chart Diagram -Bar Diagram
	B) The Selfish Giant- Oscar Wilde	• About Oscar Wilde • Discussion of the outline of the Short Story
March	**C)** Auto Wreck -Karl Shapiro	• About Karl Shapiro • Detailed Study and Discussion of the poem.
	Module VII: **A)** English for Banking and Industries	• Study of Banking Language/ Register • Study of Agenda and Notice • Advertisement
April	**B)** The Journey: May Oliver	• About May Oliver • Detailed study of the Poem
May	**Module VIII:** **A)** An Old Man's Ageless Wisdom -Sudha Murthy	• About Sudha Murthy • Detailed Study of the Story
June	**B)** My Soul Has A Hat- Marie de Andrade	• About Poet Marie de Andrade • Discussion and Thematic Exploration • Detailed Study of the Poem
July	**Examinations**	• **Examinations**

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Annual Teaching Plan

Academic Year: 2022-23

Class: BA- II (Semester III) Paper IV
Subject: Partition Literature (CBCS)
Paper Title: Partition Literature

Month	Topic/ Unit	Planned Subunits
August	**Module I:** • Partition Causes and Effects	• What is Partition? • Why Study Partition Literature? • **Causes of Partition** -Britishers Divide & Rule Policy -Morley-Minto Reforms in 1909 -The Lucknow Pact -The Montagu-Chelmsford Reform -The Two Nation Theory -The Lahore Resolution -The Mountbatten Plan
September	**Module I:** • Partition Causes and Effects	• **Effects of Partition** -The End of Colonial rule in India -Shattered Dreams -Mass Violence • Challenges Created for India -Mass Poverty -Illitracy -Low Economic Capacity -Linguistic reorganization
October	**Module II:** • Communal Conflict and Violence	• What is Communal Violence? • Communal Conflicts and Violence after Partition • **Pre-independence Scenario of Communal conflict and Violence** -Partition of Bengal -Establishment of Muslim League -Rise of extremist Hindu Mahasabha and RSS

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DEPARTMENT OF ENGLISH

Annual Teaching Plan
Academic Year: 2022-23
Class: BA- II (Semester IV) Paper VI
Subject: Partition Literature (CBCS)
Paper Title: Partition Literature

Month	Topic/ Units	Planned Subunits
January	**Module I:** Impact of Partition on Women	• **Introduction of the Topic** • Impact of Partition on Women **-Familial Consequences** **-Religious Consequences** **-Psychological Consequences** **-Social Implications** **-Literary Consequences** **-Political Consequences** **-Economical Consequences**
February	**Module II:** Home and Exile	• Introduction of the Topic • Origin and Meaning of the Exile • Home and Partition Literature • Nostalgia for Loss of Home • Exile and Partition Literature -Bleak Picture of exile -Home and Exile • In-between Space or crisis of Identity • Reflection of Home and Exile in Partition Literature
March	**Module III: Short Stories** **A)** Toba Tek Singh- Saadat Hasan Manto	• **Introduction to the Author Saadat Hasan Manto** • Discussion of Characters: Bishen Singh/ Roop Kaur/ The Hindu Lawyer/ Muhammad Ali • **Theme of the Story** **-Insanity of the Partition** • Significance of the Title • Identity in Toba Tek Singh • The Lunatics in the Asylum
April		• Introduction to the topic and Author • Detailed discussion of the Summary

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	B) The Final Solution -Manik Bandopadhyay	• Characters: Mallika/ Bhushan/ Asha/ Khokon/ Pramatha/ Ramlochan • Theme: **-Destruction of Values** **-The politics of Power and Sexuality** **-Strength of women**
May	**Module IV:** **B)** Defend Yourself against Me – Bapsi Sidhwa	• Life and work of Bapsi Sidhwa • Plot of the Story • Theme of the Story -Violence against Women during the Partition -Silence and forgetfulness about the women's Plight -forgiveness and human compassion -Cultural adaptation and assimilation • Characters: Mrs. Jacobs/ Sikander Khan/ Suzanne/ Ammijee • Narrative Technique
June	**B)** A Leaf in the Storm-Lalithambika Antharjanam	• Introduction and life and work of Lalitha Antharjanam • Plot of the Story • **Theme of the Story** **-Predicament of women in communal riot** **-lust of life** **-Mothers Love** • Characters; Jyotirmoyi Devpal • Significance of the title
July	**Examinations**	• **Examinations**

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DEPARTMENT OF ENGLISH

Annual Teaching Plan

Academic Year: 2022-23

Class: BA- III (Semester V) Paper X
Subject: English Novel (CBCS)
Paper Title: English Novel (CBCS) (DSE-E14)

Month	Topic/ Unit	Planned Subunits
September	**Module I:** **Rise and Development of the Novel**	• Origin of the Novel • Emergence of Novel as form. • Pioneers of English Novel. • Development of Novel • Aspects of the Novel
October	**Module II:** **Aspects of the Novel**	• Discussion of the Aspects of the Novel • Discussion of the E. M. Forster's 'Aspects of the Novel -Story -Plot -Characters -Setting -Point of View
November	**Module III:** **The Old Man and the Sea- Ernest Hemingway**	• Discussion about Author and his contribution to the literature • Brief summary and Outline of the Story • Character Analysis: Santiago/ Manolin • Discussion of Themes: -The Honour in Struggle, Defeat & Death -Pride as the Source of Greatness & Determination • Motifs: -Crucifixion Imagery -Life from Death
December	**Module IV:** **The Power and the Glory**	• Discussion about Author and his contribution to the literature • Brief summary and Outline of the Story • Character Analysis: The Priest/ The Lieutenant/ The Mestizo/ Coral Fellows/ The Boy/ Brigida/ Maria/ Padre Jose/

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		Mr. Tench/ The Gringo/ Captain Fellows/ Mr. Lehr/ Juan/ The Jefe • Discussion of Themes -The dangers of Excessive Idealism -The Disparity Between Representation and Reality -The Interrelated Nature of So-called Opposites -The Paradox of Christian Humility
January	**Examination**	**Examination**

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		• Discussion of thematic concern in Novel of Letters.
April	**Module VII:** **Animal Farm: A Fairy Tale - George Orwell**	• Introduction to the Author George and his contribution to the Literature. • Brief summary and Outline of the Story • Character Analysis: Pigs/ Napoleon/ Snowball/ Squealer/ Minimus/ Pinkeys/ Mr. Jones/ Mr. Frederick/ Mr. Pilkington/ Mr. Whymper
May	**Module VII:** **Animal Farm: A Fairy Tale - George Orwell**	• **Discussion of Themes:** -The Corruption of Socialist Ideals In the Soviet Union -The Societal Tendency Towards Class Stratification -The Danger of A Naïve Working Class -The Abuse of Language as Instrumental to the Abuse of Power -Corruption -The Failure of Intellect • Significance of title • Motifs and Symbols in the Novel
June	**Module VIII:** **The Guide- R. K. Narayan**	• Introduction to the Author R. K. Narayan and his contribution to the Indian English Literature • Overview of Indian English Literature • History of Indian Novel • Brief summary and outline of the Story
July	**Module VIII:** **The Guide- R. K. Narayan**	• Character Analysis: Raju/ Rosie/ Marco • Thematic Analysis: -Complex human relationship -Conflict between traditional and modern values -Role of destiny in person's Life
August	**Examinations**	**Examinations**

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DEPARTMENT OF ENGLISH

ANNUAL TEACHING PLAN

B.com I (English) Semester-I

ENGLISH FOR BUSINESS COMMUNICATION

(Academic Year- 2023-2024)

Month	Topic/Unit	Sub-units Planned
JULY	Module (A): - Developing Vocabulary	*Word class, *Word Formation, *Synonyms & Antonyms, *Confusing Words.
AUGUST	Module II(B): On smiles	*Introduction, *About the author, *Summary, *Detailed analysis of the essay.
	Module II (A): Description -	*Introduction, *Describing a person, *place, *An office, *An object.
SEPTEMBER	Module II (B): The Unknown Citizen - W. H. Auden	*A satirical lyric, *Summary, *Detailed analysis of the poem.
	Module III (A): Narration	*Introduction, *Narration, *Time -markers, *Use of linking word-Phrases, *Examples of Narration, *Narrating story from different point of view

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OCTOBER	Module III (B): Panch Parameshwar - Premchand	*About the writer, *Plot *Summary, *Detailed analysis of the story
	Module VI (A):Kabuliwala - Rabindranath Tagore	*About the writer, *Plot, *Summary, *Detailed analysis of the story
	B)Offering in the temple-Desika Pillai	*About the poet *Summary, *Detailed analysis of the poem
	C)Felling of the BunyanTree - Dilip Chitre	*About the poet *Summary, *Detailed analysis of the poem
NOVEMBER	**Revision Examination**	**Revision Examination**

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DEPARTMENT OF ENGLISH

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B.com I (English) Semester-II

ENGLISH FOR BUSINESS COMMUNICATION

(Academic Year- 2023-2024)

Month	Topic/Unit	Sub-units Planned
DECEMBER	Module V (A): Business Correspondence -	*Introduction *Types of correspondence , *Types of Business Letter, *Mass Communications: CircularLetters, *Social Communication Letters toMaintain Good Will
	Module V(B): Why Does the Child Cry? - Mulk RajAnand	*About the writer, *Plot *Summary, *Detailed analysis of the story.
JANUARY	Module VI (A): Telephonic Communication	*Introduction *A business phone call *Expressing Negative reply *Asking for Repeating point. *Dealing with complaints.

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DEPARTMENT OF ENGLISH
Annual Teaching Plan
Academic Year: 2023-24
Class: BA-I
Subject: English Compulsory (Semester- I)
Paper Title: English for Communication

Month	Topic/Unit	Subunits Planned
JULY	Module I: A) Developing Vocabulary	• Developing Vocabulary • Prefixes- Suffixes • Synonyms and Antonyms
	Module I: B) On Saying Please – A. G.Gardinar	• About Essay • Theme • Detailed study of Essay
AUGUST	Module II: A) Narration	• Narrating Experiences – Story Event. • Linking Words and Phrases • Tasks
	Module II: B) In Passion's Shadow-Mohan Rakesh	• Summary • Detailed Study ofessay.
SEPTEMBER	Module III: A) English for GeneralPurposes	• Introduction • Friendly communication • Introducing people • Conversation • Writing SMS
	Module III: B) The Solitary Reaper – William Wordsworth	• Summary • Critical Appreciation ofthe poem • Detailed study of thepoem
OCTOBER	Module IV: A) My School – RabindranathTagore	• Summary • Detailed study of thelesson
	Module IV: B) & C) All World Is a Stage- Shakespeare	• Summary of the poem • Seven stages of man • Detailed study of thepoem

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	The Secret – Kusumagraj	• Summary • Detailed study of thepoem
NOVEMBER	Module I & II : ➢ Developing Vocabulary ➢ Narration	• Practice session of Communication Skills
	Module III: English for General Purposes	• Practice Session
	Revision	• Revision
	Examination	• Examination

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DEPARTMENT OF ENGLISH

Annual Teaching Plan
Academic Year: 2023-24
Class: BA-I
Subject: English Compulsory (Semester- II)
Paper Title: English for Communication

Month	Topic/Unit	Subunits Planned
DECEMBER	Module V: A) Making Inquiries	• To acquaint skills of language for making inquiries • Giving Instructions
	Module V: B) The Lost Child – Mulk Raj Anand	• Summary of the Story • Detailed study of the story
JANUARY	Module VI: A) Telephonic Communication	• Speaking English on Telephone • Telephonic Convrsation
	Module VI: B) To My Countrymen – APJ Abdul Kalam	• Summary • Detailed study of the lesson
FEBRUARY	Module VII: A) Description	• Description of the People, Places and Things • Exercises
	B) A Village Girl – Mohan Singh	• Summary of the poem • Detailed study of the poem
	Module VIII: A) My Elder Brother	• Summary of the story • Detailed study of the story
MARCH	Module VIII: B) The Tiger – William Blake	• Summary of the poem • Detailed Study of the poem
APRIL	C) A Poet – Chandrakant Patil	• Summary of the poem • Detailed Study of the poem
	Revision	• Revision
MAY	Examination	• Examination

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DEPARTMENT OF ENGISH

Annual Teaching Plan
Academic Year: 2023-24
Class: BA-II
Subject: English Compulsory (Semester- III)
Paper Title: English for Communication

Month	Topic/ Unit	Planned Subunits
JULY	**Module I**: A) Oral Skills	• Differentiation between Spoken Text and Written Text. • Power Point Presentation. • Script for Welcome Function.
	B) A Real Good Smile – Bill Naughton	• Discussion of outline of the Essay • Detailed Study of the Essay
	C) Mending Wall -Robert Frost	• Discussion about Poet • Summary of the Poem • Detailed Study of the Poem
AUGUST	**Module II:** A) Conversations Skills	• Introduction of the topic • Asking the permission • Expression of Agreement and Disagreement
	B) The Highway- Ray Bradbury	• Discussion of the Story • Detailed study of the story
SEPTEMBER	**Module III:** Developing Writing Skills	• Study of Report Writing • How to write well organized Paragraph
	B) Whitewashing the Fence	• Discussion about Essay and Author • Detailed study of the Essay
OCTOBER	**Module IV: A)** Father Returning Home- Dilip Chitre	• About Poet and Poem • Theme • Detailed Study of the Poem

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DEPARTMENT OF ENGISH

Annual Teaching Plan

Academic Year: 2023-24

Class: BA-II

Subject: English Compulsory (Semester- IV)

Paper Title: English for Communication

Month	Topic/ Unit	Planned Subunits
DECEMBER	**Module V:** A) E-Communication	• Introduction • Official e-Mail Writing • E-Mail Discussion Group
	B) Preparation for England – M. K. Gandhi	• Introduction • Detailed Study of the Essay
JANUARY	**Module VI:** A) Information Transfer and Interpretation of the Data	• Study of Table Diagrams -Tree Diagram -Chart Diagram -Bar Diagram
	B) The Selfish Giant- Oscar Wilde	• About Oscar Wilde • Discussion of the outline of the Short Story
FEBRUARY	C) Auto Wreck -Karl Shapiro	• About Karl Shapiro • Detailed Study and Discussion of the poem.
	Module VII: A) English for Banking and Industries	• Study of Banking Language/ Register • Study of Agenda and Notice • Advertisement
MARCH	B) The Journey: May Oliver	• About May Oliver • Detailed study of the Poem
	Module VIII: A) An Old Man's Ageless Wisdom -Sudha Murthy	• About Sudha Murthy • Detailed Study of the Story
APRIL	B) My Soul Has A Hat- Marie de Andrade	• About Poet Marie de Andrade • Discussion and Thematic Exploration • Detailed Study of the Poem
MAY	**Examinations**	• **Examinations**

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DEPARTMENT OF ENGLISH

ANNUAL TEACHING PLAN

B.A.III (English) Semester-V

ENGLISH POETRY

(Academic year 2023-24)

Month	Topic / Unit	Sub-units Planned
AUGUST	• Module I- Topic for Background readings: Elizabethan Poetry	*Elizabethan age *Themes *Characteristics *Elizabethan poets
SEPTEMBER	• Module II-Selections from Elizabethan Poetry	*Sweet Warrior - Edmund Spenser *Sonnet To The Moon-Sir Philip Sidney *Full Many A Glorious Morning.... - William Shakespeare (About poets, Summary, Critical Analysis, Detailed study of the poems
	• Module I- Topic for Background readings: Metaphysical Poetry	*Definition *Characteristics
	• Module I- Topic for Background readings: Metaphysical Poetry	*Themes *Metaphysical poets *The Sun Rising - John Donne *The Retreat - Henry Vaughan *The Collar - George Herbert

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OCTOBER	• Module III- Selections from Metaphysical Poetry	(About poets, Summary, Tone of the poems, Detailed study of the poems)
NOVEMBER	• Module I- Topic for Background readings: Romantic Poetry • Module IV- Selections from Romantic Poetry	*Romanticism *Features *Characteristics *Romantic Poets *My Hearts Leaps Up- William Wordsworth *The Rime of The Ancient Mariner - S. T. Coleridge (About Poets, Detailed study of poems, Critical Appreciation of poems, Irony of the poems, Themes of the poems)
DECEMBER	• Module IV- Selections From Romantic Poetry	*Ozymandias - P. B. Shelley *When We Two Parted - Lord Byron (About Poets, Detailed study of poems, Critical Appreciation of poems, Irony of the poems, Themes of the poems)
	Seminar	Seminar
	EXAMINATION	**EXAMINATION**

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ANNUAL TEACHING PLAN
B.A.III (English) Semester-VI

ENGLISH POETRY

(Academic year 2023-24)

Month	Topic / Unit	Sub-units Planned
JANUARY	• Module V- Topics for Background Readings: Victorian Poetry • Module VI - Selections from Victorian Poetry	*Introduction *Victorian age *Features *Characteristics *Victorian Poets *The Lady of Shallot - Alfred Lord Tennyson (About poet, Summary, Tone of the poem, Detailed study of the poem)
FEBRUARY	• Module VI - Selections from Victorian Poetry	*My Last Duchess - Robert Browning *Love Came Down At Christmas - Christiana Rossetti (About poets, Summary, Tone of the poems, Detailed study of the poems)
	• Module V- Topics for Background Readings: Modern English Poetry	*Modernist Poetry *The Emergence of English Language

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DEPARTMENT OF ENGISH

Annual Teaching Plan

Academic Year: 2023-24

Class: **B. Sc I**

Subject: English Compulsory (Semester- I)

Paper Title: English for Communication

Month	Topic/Unit	Sub-units Planned
JULY	**Module I** **A)** Developing Vocabulary	-Introduction -Prefix- Suffixes - Synonyms – and Antonyms
	B) Technology with Human Face – E. F. Schumacher	- About Writer -Introduction of Essay - Theme -Detailed Study of Essay
	C) How Beautiful – P. K. Padhy	-About poet - Summary of the Poem. -Critical Appreciation of the poem - Detailed Study of the poem.

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AUGUST	**Module II** **A)** Narration	-Introduction - Use of past Tense in the Narration -Types of Narration – 1 person Narration and 3 person Narration - Task – Narrate your BirthdayCelebration.
SEPTEMBER	**B)** As a Flower I come – Dr. S. V. Shelke, Nagthane	-Discussion of life and work of poet. -Discussion of Summary -Critical appreciation of the poem
OCTOBER	**Module III** **A)** Description	-Description of the Birds Animals,Place, Person
	B) I have a Dream Main Luther King, Jr.	-Introduction to the topic -About speech -Stylistic Features in the speech
NOVEMBER	**Module IV** **A)** The Auspicious visionRavindranath Tagore	-Discussion about life and work ofWriter -Summary of the story -Detailed Study of the story
	B) The Boot- Ittikhar Rizvi	- Discussion of life and work of poet. - Summary -Critical Appreciation of poem
	Examination	**-Examination**

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DEPARTMENT OF ENGISH

Annual Teaching Plan

Academic Year: 2023-24

Class: **B. Sc I**

Subject: English Compulsory (Semester- II)

Paper Title: English for Communication

MONTH	Topic/ Unit	Sub-units Planned
JANUARY	**Module V** A) Telephonic Communication	-Personal and formal EnglishCommunication on Telephone -Task
FEBRUARY	B) Last Forest-Johannes Jensen	-About Author -Summary of the story. -Story Writing Activity
MARCH	C) Stopping by Woods on asnowy evening-Robert Frost	-About poet. -Summary of the poem. -Critical appreciation of the poem
APRIL	**Module VI** A) English for specific purposes.	-English language used in science andTechnology. -Spoken and written English forlaboratory purpose. -Spoken and written English forClassroom purpose.

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MAY	**B)** Putting Data to Effective use-Satish Tripathi.	- About Author - Introduction of speech. -Speech Summary
JUNE	**Revision**	**Revision**
	Examinations	**Examinations**

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	B) The look – out Man – Nicholas Bently	-About Writer
NOVEMBER	**Module IV** A) A forgetting our own History – Sudha Murthy	- About Writer - Summary of the Narration - Theme of the prose - Exercises
	B) I) The butterfly – Arun Kolatkar	- About poet - Summary of The Narration - Critical appreciation of the poem
DECEMBER	II) For your Lanes – My Country – Faiz Ahmad Faiz	- About poet and his contribution to the literature - Outline and Summary of the poem - Critical appreciation of the poem - **Revision** - **Examination**

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DEPARTMENT OF ENGISH

Annual Teaching Plan

Academic Year: 2023-24

Class: **B. Sc III**

Subject: English Compulsory (Semester- VI)

Paper Title: English for Communication

Month	Topic /Unit	Sub-units Planned
JANUARY	**Module V** A) Group Discussion	-Initiating the group Discussion -Task
	B) Evolution – Alexie Shermen Alexie	-About Poet - Summary of the poem -Critical appreciation of poem
FEBRUARY	**Module VI** A) Note Making and Note Taking	-Importance of Note Taking an Note Making. -Task
	B) Gateman's Gift- R.K. Narayan	-About Writer -Summary of the Story. -Detailed Analysis of Story.
MARCH	**Module VII** A) Media Writing	- Introduction to Media Writing -Types of Mass Media - English for Advertising -Advertising and its meaning -Media for advertisement -Structure for Advertisement and its Techniques -Exercise.

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APRIL	B) Karma- Khushwant Singh	-About writer, Summary of the Story -Story writing, Activity
MAY	**Module VIII** **A)** Bhaurao in America – P. G. Patil	-Introduction to the - Write a essay on Karmveer Bhaurao Patil
	B) I) The Grass is Really Like Me- Kishwar Naheed II) The Granny- Tejaswini Patil	-About poet -Summary of the poem -Critical apparition of the poem -About Poem -Summary of the Poem -Critical Appreciation
	Examinations	**-Examination**

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(Academic Year: 2023-2024)

Dr. Vinayak Shivaji Shinde

Dept. of Hindi

Class: B.A.I, B.A. II, B.A. III

Month	Class	Paper No.	Units to be Completed
Jul./Aug. 2023	B.A. I. OPT.	I	इकाई I – कविता बालिका का परिचय - सुभद्राकुमारी चौहान तेरी खेपड़ी के अंदर - नागार्जुन
	B.A. I COM.	A	हिंदी भाषा तथा व्याकरण लिंग, वचन, कारक, विरामचिन्ह
	B.A. II	IV	मध्यकालीन संत कवियों का सामान्य परिचय । नामदेव के पद,कबीर के दोहे एवं मीरा के पद
	B.A. III	VII, IX	दिल्ली ऊँचा सुनती है(नाटक)-कुसुम कुमार कुसुम कुमार का जीवन परिचय एवं कृतित्व आदिकाल का नामकरण एवं परिस्थिति सामाजिक, राजनितीक परिस्थितीयाँ । आदिकाल की प्रतिनीधी रचनाएँ - पृथ्वीराज रासो सामान्य परिचय - बीसलदेव रासो

Month	Class	Paper No.	Units to be Completed
Aug./Set. 2023	B.A. I. OPT.	I	इकाई I भिक्षुक - निराला बसंत आ गया – अज्ञेय
	B.A. I COM.	A	वाक्य के प्रकार, मानकवर्तनी कविता लेखन का स्वरुप,महत्व तथा उपयोगिता ।
	B.A. II	IV	रहीम तथा बिहारी दोहे का सामान्य परिचय । भूषण के पद एवं आधुनिक कविता का परिचय ।
	B.A. III	VII, IX	इकाई – दिल्ली ऊँचा सुनती है नाटक का देशकाल वातावरण दिल्ली ऊँचा सुनती है नाटक का कथानक,प्रासंगिकता । भक्तिकाल, राजनितिक, सामाजीक परिस्थितीयाँ । कवियोंका परिचय – रविदास, मीराबाई, गुरुनानक

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Month	Class	Paper No.	Units to be Completed
Setp./Oct. 2023	B.A. I. OPT.	I	इकाई – II घर की याद - राजेश जोशी अजीब सी मुश्किल - कुँवर नारायण
	B.A. I COM.	A	कहानी तथा यात्रावृत्त लेखन का स्वरूप । महत्व तथा उपयोगिता।
	B.A. II	IV	दुत झरो -सुमित्रानंदन पंत, औरत - चंद्रकांत देवताले तीनों बंदर बापू के - नागार्जुन, सूरज पाना है -परशुराम शुक्ल
	B.A. III	VII, IX	दिल्ली उँचा सुनती है नाटक का चरित्र चित्रण एवं संवाद । निर्गुण भक्ति धारा,काव्य की विशेषताएँ । कबीर एवं जायसी का जीवन परिचय ।

Month	Class	Paper No.	Units to be Completed
Oct./Nov. 2023	B.A. I. OPT.	I	बीस साल बाद - धूमिल पैदल आदमी - रघुवीर सहाय
	B.A. I COM.	A	कविता, कहानी तथा यात्रावृत्त का क्षेत्र । सामाजिक, राजनीतिक और सांस्कृतिक क्षेत्र ।
	B.A. II	IV	वह अनजान आदमी - अभिमन्यु अनंत उतनी दूर मत ब्याहना बाबा - निर्मला पुतुल
	B.A. III	VII, IX	दिल्ली उँचा सुनती है नाटक का उद्देश्य,समस्याँ,शीर्षक की सार्थकता । सगुण भक्ति काव्यधारा की विशेषताएँ । तुलसीदास एवं सूरदास का जीवन परिचय ।

Month	Class	Paper No.	Units to be Completed
Nov./Dec. 2023	B.A. I. OPT.	I	विद्यापीठ परीक्षा
	B.A. I COM.	I	विद्यापीठ परीक्षा
	B.A. II	III	विद्यापीठ परीक्षा
	B.A. III	IX	विद्यापीठ परीक्षा

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Month	Class	Paper No.	Units to be Completed
Setp./Oct. 2023	B.A. I. OPT.	I	इकाई – II घर की याद - राजेश जोशी अजीब सी मुश्किल - कुँवर नारायण
	B.A. I COM.	A	कहानी तथा यात्रावृत्त लेखन का स्वरूप । महत्व तथा उपयोगिता।
	B.A. II	IV	द्रुत झरो -सुमित्रानंदन पंत, औरत - चंद्रकांत देवताले तीनों बंदर बापू के - नागार्जुन, सूरज पाना है -परशुराम शुक्ल
	B.A. III	VII, IX	दिल्ली उँचा सुनती है नाटक का चरित्र चित्रण एवं संवाद । निर्गुण भक्ति धारा,काव्य की विशेषताएँ । कबीर एवं जायसी का जीवन परिचय ।

Month	Class	Paper No.	Units to be Completed
Oct./Nov. 2023	B.A. I. OPT.	I	बीस साल बाद - धूमिल पैदल आदमी - रघुवीर सहाय
	B.A. I COM.	A	कविता, कहानी तथा यात्रावृत्त का क्षेत्र । सामाजिक, राजनीतिक और सांस्कृतिक क्षेत्र ।
	B.A. II	IV	वह अनजान आदमी - अभिमन्यु अनंत उतनी दूर मत ब्याहना बाबा - निर्मला पुतुल
	B.A. III	VII, IX	दिल्ली उँचा सुनती है नाटक का उद्देश्य,समस्यॉ,शीर्षक की सार्थकता । सगुण भक्ति काव्यधारा की विशेषताएँ । तुलसीदास एवं सूरदास का जीवन परिचय ।

Month	Class	Paper No.	Units to be Completed
Nov./Dec. 2023	B.A. I. OPT.	I	विद्यापीठ परीक्षा
	B.A. I COM.	I	विद्यापीठ परीक्षा
	B.A. II	III	विद्यापीठ परीक्षा
	B.A. III	IX	विद्यापीठ परीक्षा

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Month	Class	Paper No.	Units to be Completed
Dec/Jan 2023-24	B.A. I. OPT.	II	हिंदी गद्य साहित्य इकाई – I निबंध गद्य साहित्य का स्वरुप एवं विकासक्रम । जीवन और शिक्षण – विनोबा भावे सूरदास (निबंध) - बाबू श्याम सुंदरदास
	B.A. I COM.	B	पत्राचार – सामान्य परिचय, रोजगार प्राप्ती हेतु, सरकारी, अर्धसरकारी, गैरसरकारी।
	B.A. II	VI	खंडकाव्य का स्वरूप एवं तात्विक विवेचन संशय की रात (खंडकाव्य) - नरेश मेहता
	B.A. III	XIV, XV, XVI	अंतिम साक्ष्य - चंद्रकांता (उपन्यास) सामाजिक राजनितीक परिस्थितीयाँ । कावियोंक का परिचय – बिहारी, भूषण, घनानंद

Month	Class	Paper No.	Units to be Completed
Jan/Feb 2024	B.A. I. OPT.	II	इकाई –I, II भगत की गत – हरिशंकर परसाई विज्ञापन युग – मोहन राकेश व्यंग्य साहित्य का स्वरुप एवं विकासक्रम ।
	B.A. I COM.	B	हिंदी के विविध रुप तथा प्रयोजनमूलक हिंदी । मातृभाषा,राजभाषा,सर्जनात्मक भाषा एवं संपर्क भाषा का परिचय ।
	B.A. II	VI	संशय की रात खंडकाव्य का कथानक तथा चरित्र चित्रण । संशय की रात खंडकाव्य में चित्रित वर्णन ।
	B.A. III	XIV, XV, XVI	चंद्रकांता का जीवन परिचय अंतिम साक्ष्य उपन्यास का कथानक, चरित्र चित्रण आधुनिक काल का परिवेश । सामाजिक, राजनितीक परिस्थितियाँ । युगपर्वतक साहित्यकार भारतेंदु, हरिशचंद्र, जयशंकर प्रसाद, मोहन राकेश

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Month	Class	Paper No.	Units to be Completed
Feb/March. 2024	B.A. I. OPT.	II	इकाई – II फुटपाथ के कलाकार -शरद जोशी गोशाला चारा और सरपंच - शंकर पुणेतांबेकर
	B.A. I COM.	B	विज्ञापण हिंदी एवं साहित्य हिंदी का स्वरूप । कार्यालयीन हिंदी,वाणिज्यिक हिंदी,वैज्ञानिक हिंदी ।
	B.A. II	VI	संशय की रात खंडकाव्य की भाषा शैली एवं उद्देश्य । संशय की रात खंडकाव्य की समस्या एवं शीर्षक की सार्थकता ।
	B.A. III	XIV, XV, XVI	अंतिम साक्ष्य उपन्यास का देशकाल वातावरण तथा प्रासंगिकता । आधुनिक काल की सामाजिक राजनितीक परिस्थितीयाँ। युगप्रवर्तक साहित्यकार – भारतेंदु, महावीर प्रसाद द्विवेदी, विजयशंकर प्रसाद,अज्ञेय

Month	Class	Paper No.	Units to be Completed
April/May 2024	B.A. I. OPT.	II	परीक्षा आदि ।
	B.A. I COM.	B	परीक्षा आदि ।
	B.A. II	VI	परीक्षा आदि ।
	B.A. III	XIV, XV, XVI	परीक्षा आदि ।

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Month	Class	Paper No.	Units to be Completed
Feb/March. 2024	B.A. I. OPT.	II	इकाई – II फुटपाथ के कलाकार -शरद जोशी गोशाला धारा और सरपंच - शंकर पुणेतांबेकर
	B.A. I COM.	B	विज्ञापन हिंदी एवं साहित्य हिंदी का स्वरूप । कार्यालयीन हिंदी,वाणिज्यिक हिंदी,वैज्ञानिक हिंदी ।
	B.A. II	VI	संशय की रात खंडकाव्य की भाषा शैली एवं उद्देश्य । संशय की रात खंडकाव्य की समस्या एवं शीर्षक की सार्थकता ।
	B.A. III	XIV, XV, XVI	अंतिम साक्ष्य उपन्यास का देशकाल वातावरण तथा प्रासंगिकता । आधुनिक काल की सामाजिक राजनितीक परिस्थितीयॉ। युगप्रवर्तक साहित्यकार – भारतेंदु, महावीर प्रसाद द्विवेदी, विजयशंकर प्रसाद,अज्ञेय

Month	Class	Paper No.	Units to be Completed
April/May 2024	B.A. I. OPT.	II	परीक्षा आदि ।
	B.A. I COM.	B	परीक्षा आदि ।
	B.A. II	VI	परीक्षा आदि ।
	B.A. III	XIV, XV, XVI	परीक्षा आदि ।

हिंदी विभाग
पद्मभूषण वसंतरावदादा पाटील
महाविद्यालय, कवठेमहांकाळ

P.V.P. MAHAVIDYALAYA, K.Mahankal, Dist.

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(Academic Year: 2023-2024)

Dr. Dharmendra Pandit Thorat
Dept. of Hindi

Class: B.A. I, B.A. II, B.A.III

Month	Class	Paper No.	Units to be Completed
July/Aug. 2023	B.A. I (Optional)	I	हा गई है पीर – दुष्यंतकुमार
	B.A. I (Compulsory)	A	रिपोर्ताज का स्वरूप
	B.A. II	III	एक टोकरी भर मिट्टी – माधवराव सप्रे दूध का दाम – प्रेमचंद पोस्टमैन – शैलेश मटियानी
	B.A. III	VIII	साहित्य का स्वरुप – तत्व, प्रयोजन
		XI	भाषा की विशेषताएँ, तथा विविध वाद

Month	Class	Paper No.	Units to be Completed
Aug/Sep. 2023	B.A. I (Optional)	I	माँ जब खाना परोसती थी – चंद्रकांत देवताले.
	B.A. I (Compulsory)	A	रिपोर्ताज का स्वरुप
	B.A. II	III	अपना रास्ता लो बाबा – काशिनाथ सिंह जाँच अभी जारी है – ममता कालिया दास्ताने कबूतर – कुसुम अंसल
	B.A. III	VIII	साहित्य का स्वरुप – तत्व, प्रयोजन
		XI	भाषा की विशेषताएँ, तथा विविध वाद

Acting Principal
Padmabhushan Vasantraodada Patil
Mahavidyalaya,Mahankal,Dist-Sangli

Month	Class	Paper No.	Units to be Completed
Sep/Oct 2023	B.A. I (Optional)	I	इकाई III कविता एकलव्य – कीर्ति चौधरी बेजगह – अनामिका.
	B.A. I (Compulsory)	A	रिपोर्ताज लेखन – उपयोगिता रिपोर्ताज लेखन के क्षेत्र दृश्य साहित्य लेखन – स्वरुप तथा उपयोगिता
	B.A. II	III	बहानेबाजी – भदंत आनंद कौसल्यायन जैसे उनके दिन फिरे – हरिशंकर परसाई जिसके हम माया हैं – शरद जोशी
	B.A. III	VIII	काव्य के प्रकार – गुण, दोष, रस का स्वरुप
		XI	भाषा के विविध रुप, हिंदी भाषा का उद्भव और विकास.

Month	Class	Paper No.	Units to be Completed
Oct/Nov. 2023	B.A. I (Optional)	I	नया बैंक – मंगेश डबराल, की मुक्ती – रजनी तिलक
	B.A. I (Compulsory)	A	साक्षात्कार लेखन का स्वरुप – महत्व साक्षात्कार लेखन के क्षेत्र
	B.A. II	III	लल्लू कब लौटेगी? (रेखाचित्र) – बनारसीदास चतुर्वेदी बाजार दर्शन (निबंध) – जैनेंद्रकुमार हम हशमत – भीष्म साहनी – (संस्मरण) कृष्णा सोबती
	B.A. III	VIII	रस के अंग, रस के भेद – अलंकार
		XI	हिंदी की बोलियाँ, लिपि का विकास

Month	Class	Paper No.	Units to be Completed
Nov/Dec. 2023	B.A. I (Optional)	I	विद्यापीठ परीक्षा
	B.A. I (Compulsory)	A	विद्यापीठ परीक्षा
	B.A. II	III	विद्यापीठ परीक्षा
	B.A. III	VIII	विद्यापीठ परीक्षा
		XI	

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Month	Class	Paper No.	Units to be Completed
Dec/Jan. 2023-24	B.A. I (Optional)	II	पंचलाईट – फणीश्वरनाथ 'रेणु'
	B.A. I (Compulsory)	B	पत्रकारिता के प्रकार – खेल, सिनेमा, ग्रामीण
	B.A. II	V	सर्वेश्वरदयाल सक्सेना – जीवन परिचय सर्वेश्वरदयाल सक्सेना – व्यक्तित्व, कृतित्व
	B.A. III	XIII	काव्यभेद – महाकाव्य, प्रगीत, गजल
		XVI	भाषा विज्ञान – परिभाषाएँ

Month	Class	Paper No.	Units to be Completed
Jan/Feb. 2024	B.A. I (Optional)	II	चीफ की दावत – भीष्म साहनी
	B.A. I (Compulsory)	B	इकाई III अनुवाद – स्वरुप, प्रकार
	B.A. II	V	नाटककार सर्वेश्वरदयाल सक्सेना लड़ाई नाटक – कथावस्तु
	B.A. III	XIII	गद्य विधाएँ – एकांकी, कहानी, उपन्यास
		XVI	भाषा विज्ञान – वैज्ञानिकता

Month	Class	Paper No.	Units to be Completed
Feb/March 2024	B.A. I (Optional)	II	अकेली – मन्नू भंडारी संस्कार और भावना (एकांकी) – विष्णु प्रभाकर.
	B.A. I (Compulsory)	B	इकाई IV समाचार का स्वरुप – प्रमुख तत्व
	B.A. II	V	लड़ाई नाटक – पात्र और चरित्र – चित्रण अब गरीबी हटाव – नाटक् – कथावस्तु
	B.A. III	XIII	गद्य विधाएँ – रेखाचित्र, आत्मकथा, यात्रावृत्त आलोचना – स्वरुप
		XVI	भाषा विज्ञान के प्रधान अंग, भाषा विज्ञान का अन्य ज्ञान – विज्ञानों से संबंध

Month	Class	Paper	Units to be Completed



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		No.	
March/April 2024	B.A. I (Optional)	II	रजिया (रेखाचित्र) – रामवृक्ष बेनीपुरी किसान के घर से (यात्रा संवाद) मधु कांकरिया
	B.A. I (Compulsory)	B	इकाई IV संपादन का स्वरुप समाचार का ढाँचा
	B.A. II	V	अंधा गरीबी हटाव नाटक – पात्र और चरित्र – चित्रण
	B.A. III	XIII	आलोचक के गुण, आलोचना के प्रकार
		XVI	कारकों के अर्थ और प्रयोग, विराम चिन्ह, मानक वर्तनी के नियम.

Month	Class	Paper No.	Units to be Completed
April/May 2024	B.A. I (Optional)	II	विद्यापीठ परीक्षा
	B.A. I (Compulsory)	B	विद्यापीठ परीक्षा
	B.A. II	V	विद्यापीठ परीक्षा
	B.A. III	XIII	विद्यापीठ परीक्षा
		XVI	

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मराठी अधिविभाग

ANNUAL TEACHING PLAN

(Academic Year: 2023-24)

Dr. Londhe.M.G.
Had Of Department
Professor,
Dept. of Marathi

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From 3rd July 2023 Term Start	B. A. - I 'A' (Mar, Opt) - ऐच्छीक मराठी पाठ्यपुस्तक - "अक्षरबंध".	I	* कथा - निवडक भास्कर चंदनशिव **विभाग एक** - १ उमाळ २ जांभळदव्ह ३ तडा
	B. A. - I 'C' (Mar, Comp)- आवश्यक मराठी पाठ्यपुस्तक - "शब्दसंहिता".	I	नापास मुलांची गोष्ट (संपा.) अरुण शेवते (निवडक लेख) **विभाग एक** १. निवड - यशवंतराव चव्हाण २. वाटेवरच्या सावल्या – कुसुमाग्रज ३. पन्नास पैकी शुन्य मार्क. - शांताबाई शेळके
	B.A - III (साहित्यविचार)	VII	**विभाग एक** - साहित्याचे स्वरूप साहित्याची व्याख्या- पौर्वात्य : भामह, मम्मट, आनंदवर्धन, विश्वनाथ, पाश्चात्य : वर्डस्वर्थ, कोर्ट होप, कार्लाइल,आधुनिक : विनोबा भावे, अ. ग. कुलकर्णी, गंगाधर गाडगीळ, वि.ना ढवळे ललित व ललितेतर साहित्य ललित साहित्यातून व्यक्त होणाऱ्या अनुभवांचे विशेष, संवेदनात्मकता, भावनात्मकता, वैचारिकता, सैद्रियता, सुचकता, विशिष्टता, विश्वात्मकता.

	B. A. – III (भाषाविज्ञान आणि मराठी भाषा)	VIII	विभाग एक भाषोत्पत्ती विचार, भाषेची उत्पत्ती सिद्धांत : इंगीत, मुखाभिनय, अनुकरण, रणन, भावनाभिव्यक्ती, श्रमपरिहार, प्रेमगानमूलक, संपर्क, क्रीडासक्ती, समन्वय.

Month	Class	Paper No.	Units to be completed
August 2023	B. A. - I 'A' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक - "अक्षरबंध".	I	विभाग दोन - ४ वासना ५ लाल चिखल ६ पाणी
	B. A. - I 'C' (Mar, Comp)- आवश्यक मराठी पाठ्यपुस्तक - "शब्दसंहिता".	I	विभाग दोन ४ शब्दाचे मोल - चंद्रशेखर धर्माधिकारी ५ संगमनेरचे दिवस - दया पवार ६ संकल्प सिद्धीला नेणारा महापुरुष : डॉ. बापूजी साळुंखे. - बळवंत देशमुख
	B.A - III (साहित्यविचार)	VII	विभाग दोन.- साहित्याचे प्रयोजन प्रयोजन म्हणजे काय?, प्रयोजन आणि परिणाम यातील फरक, साहित्याची प्रयोजने, यश किंवा कीर्ती, व्यवहारज्ञान, आनंद, उद्‌बोधन, आत्माविष्कार, जिज्ञासापूर्ती, जीवनानुभूती, इच्छापूर्ती, पलायनवाद.
	B. A. - III (भाषाविज्ञान आणि मराठी भाषा)	VIII	विभाग दोन - भाषेचे स्वरूप, व्याख्या आणि वैशिष्ट्ये, भाषा म्हणजे काय? भाषेच्या व्याख्या, भाषेचे स्वरूप, सी.एफ. हॉकेट यांनी सांगितलेली भाषेची सात वैशिष्ट्ये.

Month	Class	Paper No.	Units to be completed

September 2023	B. A. - I 'A' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	**विभाग तीन** चित्रपट म्हणजे काय? ,चित्रपट एक दृकश्राव्य माध्यम, चित्रपट माध्यमांतर, दिग्दर्शकाचा दृष्टिकोन, छायाचित्रण
	B. A. - I 'C' (Mar, Comp)- आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	विभाग **तीन** * व्यक्तीमत्व संकल्पना. * व्यक्तीमत्व विकासासाठी आवश्यक घटक. * व्यक्तीमत्व विकासात भाषेचे महत्त्व.
	B.A – III (साहित्यविचार)	VII	विभाग तीन - साहित्यनिर्मितीची कारणे :- साहित्यनिर्मितीचे स्वरूप, साहित्यनिर्मितीची कारणे, प्रतिभा- स्वरूप व वैशिष्ट्ये, बहुश्रोतात्ता, अभ्यास, भावनात्मकता, संवेदनशीलता, उत्प्रेक्षा, चमत्कृती, स्वास्थ्य, (शारीरिक मानसिक) साहित्यिकाचा जीवनविषयक दृष्टिकोन.
	B. A. - III (भाषाविज्ञान आणि मराठी भाषा)	VIII	**विभाग तीन** स्वनिम व रूपिम (स्थूल परिचय) स्वनिमविचार :- स्वन, स्वनिम, - स्वनांतर संकल्पना, स्वरूप, प्रकार. रुपिमविचार :- रूप, रूपिम, रूपिकांतर - संकल्पना, स्वरूप, प्रकार.

Month	Class	Paper No.	Units to be completed
October 2023	B. A. - I 'A' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	**विभाग चार** - चित्रपटाची कथा - पटकथा - संवाद, चित्रपटाचे संगीत - गीत , अभिनय, ध्वनी, प्रकाश योजना, वेशभूषा, संकलन , संपादन चित्रपटांचा आस्वाद.
	B. A. - I 'C' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	विभाग चार * भाषिक कौशल्य - श्रवण, वाचन, लेखन भाषण * कार्यक्रमाचे संयोजन - प्रास्ताविक, परिचय, मनोगत, आभार, सुत्रसंचलन, फलक लेखन.

	B.A - III (साहित्यविचार)	VII	**विभाग चार** - अलंकार : अतिशयोक्ती, स्वभावोक्ती, दृष्टांत, उपमा, अनुप्रास, रूपक, (व्याख्या स्वरूप आणि उदाहरणे)
	B. A. - III (भाषाविज्ञान आणि मराठी भाषा)	VIII	**विभाग चार** - वाक्यप्रकार - केवल वाक्य व त्याचे प्रकार, मिश्र वाक्य व त्याचे प्रकार, संयुक्त वाक्य व त्याचे प्रकार, वाक्याचे पृथक्करण.
November 2023	University Examination		

Month	Class	Paper No.	Units to be completed
December 2023	**B. A. - I 'A' (Mar, Opt)**-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	"बाकी सर्व ठीक आहे" - लोकनाथ यशवंत (निवडक कविता) **विभाग एक** * जीवाचा आटापिटा, * मुख्य प्रवाह, * एका वृक्षाची गोष्ट, *राग *जीवन सुंदर आहे, * भविष्य, * तडजोड, * पर्सनल मुलाखत
	B. A. - I 'C' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	**विभाग एक** १ .संत नामदेव - पतितपावन, पंढरीस जावे. २ .अनंत फंदी - जमाना आला उफराटा, हे मुर्खा खून तर्का ३.महात्मा फुले - मानवांचा धर्म एक ४.बालकवी - फुलराणी, अप्सरांचे गाणे
	B.A - III (साहित्यविचार)	XII	**विभाग एक** - शब्दशक्ती : शब्दशक्ती म्हणजे काय?, अभिधा : व्याख्या, स्वरूप व प्रकार, लक्षणा : व्याख्या, स्वरूप, लक्षणेत आवश्यक्य गोष्टी. अ) मुख्यार्थ ब मुख्यार्थ - लक्षार्थ संबंध, क) लक्षणेचे महत्व. व्यंजना : व्याख्या, स्वरूप, व्यंजनेचे मुख्य दोन प्रकार, शाब्दीव्यंजना ,आर्थीव्यंजना. व्यंजनेचे साहित्यातील महत्त्व.

	B. A. – III (भाषाविज्ञान आणि मराठी भाषा)	XIII	**विभाग एक -** मराठीची वर्णमाला, ध्वनी व वर्ण स्वराघा ध्वनिशास्त्रदृष्ट्या व उच्चारण स्थानानुसार विश्लेषण, स्वरांचे प्रकार, मराठीतील व्यंजन विचार, व्यंजनांचे प्रकार, मराठीची वर्णव्यवस्था व संख्या निश्चितीकरण.
Month	**Class**	**Paper No.**	**Units to be completed**
January 2024	B. A. - I 'A' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	**विभाग दोन -** गौडबंगाल, पर्यावरण, सोन्याचा दात, मांजर, स्पर्श, युद्ध असे सुरु होते, जन्म आईचा, शेतमजूर.
	B. A. - I 'C' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	विभाग **दोन** ५ विंदा करंदीकर - माझ्या मना बन दगड, झपताल. ६ वाहरु सोनवणे - गोधड, घळवळ म्हणजे. ७ प्रज्ञा दया पवार - माणसासारखा माणूस असूनही, आग आणि फुफाटा. ८ एकनाथ पाटील - शहर एक उदास पोकळी, शोधयात्रा.
	B.A - III (साहित्यविचार)	XII	**विभाग दोन** रसविचार : रस म्हणजे काय ? स्थायीभाव व रस, भारताचे रससूत्र, काव्यानंदमिमांसा, काव्यानंदमिमांसा म्हणजे काय? कवीचा आनंद, क्रीडानंद, निर्मितीचा आनंद ,रसिकांचा, पुनः प्रत्ययाचा आनंद करुणरसानंद, केवलानंदवाद, विवेचन कॅथॉसिस.
	B. A. – III (भाषाविज्ञान आणि मराठी भाषा)	XIII	**विभाग दोन** मराठीचे ध्वनीपरिवर्तन, ध्वनीपरिवर्तन म्हणजे काय ? व्याख्या आणि विशेष, ध्वनीपरिवर्तनाचा मराठी भाषेवरील परिणाम.

Month	Class	Paper No.	Units to be completed

February 2024	B. A. - I 'A' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	**विभाग तीन -** वृत्तपत्रीय लेखन, बातमी, अग्रलेख, वाचकांचा पत्रव्यवहार, नाटक/ चित्रपट परीक्षण.
	B. A. - I 'C' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	**विभाग तीन** * निबंधाचे स्वरूप, व्याप्ती, निबंधाचे घटक, निबंधाचे प्रकार, निबंधाची वैशिष्ट्ये.
	B.A - III (साहित्यविचार)	XII	**विभाग तीन –** साहित्याची भाषा, व्यवहारभाषा, शास्त्रभाषा व साहित्याची भाषा साम्य भेद, साहित्याचे माध्यम व भाषा साहित्य भाषेचे सौंदर्य साहित्य भाषेची विविधता.
	B. A. - III (भाषाविज्ञान आणि मराठी भाषा)	XIII	**विभाग तीन -** मराठीचे अर्थपरिवर्तन, व्याख्या आणि स्वरूप अर्थ परिवर्तनाची कारणे व प्रकार.

Month	Class	Paper No.	Units to be completed
March 2024	B. A. - I 'A' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक - "अक्षरबंध".	II	**विभाग चार -** पत्रलेखन, पत्रलेखनाचे स्वरूप व प्रकार, पत्रलेखनाचे बदलते स्वरूप, ई - पत्रव्यवहार, आकलन, आकलनाचे स्वरूप, उताऱ्याचे आकलन, कवितेचे आकलन
	B. A. - I 'C' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	**विभाग चार** * प्रात्यक्षिकासह निबंध लेखन.
	B.A - III (साहित्यविचार)	XII	**विभाग चार** छंद व वृत्ते : छंद 1) ओवी 2) अभंग 3)मुक्तछंद वृत्ते - भुजंगप्रयास, वसंत तिलका, दिंडी .(व्याख्या स्वरूप उदाहरणे)
	B. A. - III (भाषाविज्ञान आणि मराठी भाषा)	XIII	**विभाग चार -** प्रमाण मराठी भाषा आणि तिच्या बोली.
April 2024	University Examination		

प्रा. डॉ. मोहन गोविंद लोंढे
एम.ए., एम.फिल, पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
कवठेमहांकाळ, जि. सांगली.

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कवठेमहांकाळ, जि. सांगली.

शिक्षण प्रसारक संस्थेचे

पद्मभूषण वसंतरावदादा पाटील महाविद्यालय, कवठेमहांकाळ

मराठी अधिविभाग

ANNUAL TEACHING PLAN

(Academic Year: 2023-24)

Mr. A.B. Rathod
Assistant Professor,
Dept. of Marathi

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From 3rd July 2023 Term Start	B. A. - I 'B' (Mar, Opt) - ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	* कथा - लिखाऊक आसकर चंदनशिव विभाग एक - १ उमाळा २ जांभळवन ३ तहा
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	व्यापार मुलाखती गोष्ट (संपा.) अरुण शेवते (लिखाऊक लेख) विभाग एक १. लिखाऊ - यशवंतराव चव्हाण २. वाटेवरच्या सावल्या – कुसुमाग्रज ३. पन्नास पैकी शून्य मार्क. - शांताबाई शेळके
	B.A. – II साहित्यकृती : देवबाबली- प्राजक्त देवमुख	III	विभाग एक नाटक वाङ्मय प्रकार संकल्पना व स्वरूप देवबाबली आजरयमूले व कथानक
	B.A. – III (मराठी भाषा व अर्थार्जनाच्या संधी.)	X	विभाग तीन शोधनिबंध व प्रकल्पलेखन (स्थूल परिचय) संशोधन - संकल्पना, स्वरूप, महत्व. • संशोधनपर लेखनप्रकार परिचय. १.शोधनिबंध स्वरूप व पाठ्यांश.
	B.A. – III वाङ्मय प्रवाहाचे आजच्याकालचे वुनीत	XI	विभाग एक मराठीतील महाराष्ट्र आणि महानुभावीय लेखाचा प्रेरणा व स्वरूप महानुभावीय गद्य लेखकार केसोबास यांचा परिचय दृष्टांतपाठाचे स्वरूप

Month	Class	Paper No.	Units to be completed
August 2023	B. A. - I 'B' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक - "अक्षरबंध".	I	विभाग दोन – ४ पाऊस ५ लाल विसरू ६ पाणी
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	विभाग दोन ४ शब्दाचे मोल - चंद्रशेखर धर्माधिकारी ५ संगमनेरचे दिवस - दया पवार ६ संकल्प सिद्धीला नेण्यास महापुरुष : डॉ. बाबूजी शकुंतले. - बळवंत देवमुख
	B.A. – II	III	विभाग दोन

	साहित्यकृती : देवबाभळी- प्राजक्त देशमुख		देवबाभळी – पात्रे, घटना, प्रसंग,संवाद व संघर्ष
	B.A. – III (मराठी भाषा व अर्थार्जनाच्या संधी.)	X	विभाग तीन २. संशोधन प्रकल्प - स्वरूप व पध्दती ३. प्रबंधिका ४. प्रबंध • संशोधनपर लेखनाची पध्दये व भाषा
	B.A. – III वाङ्मय प्रवाहाचे आकलनमराठीतील	XIV	विभाग तीन भाषा दृष्टांतपाठातील आशयसूत्रे सामाजिकता संस्कृतीकता,प्रादेशिकता ,दंतीव लिठा,तत्त्वज्ञान व मूल्यविचार

Month	Class	Paper No.	Units to be completed
September 2023	B. A. - I 'B' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	विभाग तीन चित्रपट म्हणजे काय? ,चित्रपट एक दृकश्राव्य माध्यम, चित्रपट माध्यमांतर, दिग्दर्शकाचा दृष्टिकोन, छायाचित्रण
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	विभाग तीन • व्यक्तिमत्व संकल्पना. • व्यक्तिमत्व विकासासाठी आवश्यक घटक. • व्यक्तिमत्व विकासात अपेक्षे महत्त्व.
	B.A. – II साहित्यकृती : देवबाभळी- प्राजक्त देशमुख	III	विभाग तीन देवबाभळी- नाट्यविशेष व वाचिक विशेष
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	X	विभाग चार आंतरजालावरील मराठी : आंतरजालावरील मराठी विषय तेजालाचे स्वरूप. आंतरजालावरील मराठी : ब्लॉगीलेखन, विश्वकोश, विकिपीडिया, इत्यादी.
	B.A. – III वाङ्मय प्रवाहाचे आकलनमराठीतील	XVI	विभाग तीन दृष्टांतपाठातील अभिव्यक्ती विशेष आंतरजालावरील मराठीविभेदन कथन शैलीव्यक्ती. चित्रण,घटना प्रसंग वर्णने प्रतिमा व प्रतीके,रचना विशेष

Month	Class	Paper No.	Units to be completed
October 2023	B. A. - I 'B' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	विभाग चार चित्रपटाची कथा - पटकथा - संवाद, चित्रपटाचे संगीत - गीत , अभिनय, रचना, प्रकाश योजना, वेशभूषा, संकलन , संपादन

			विषयटांचा आस्वाद.
	B. A. - I 'B' (Mar, Comp) आवश्यक मराठी पाठ्यपुस्तक - "शब्दसंहिता".	I	विभाग चार * भाषिक कौशल्य - चरण, वाचन, लेखन भाषाभाग * कार्यक्रमाचे संयोजन - प्रास्ताविक, परिचय, मनोगत, आभार, सूत्रसंचालन, फलक लेखन
	B.A. – II साहित्यकृती : देवबाभळी- प्राजक्त देशमुख	III	विभाग चार उपयोजित मराठी – अभिवाचन अभिवाचन संकल्पना व स्वरूप अभिवाचनाचा उद्देश अभिवाचनाकरिता पूरक साधने अभिवाचनासाठी आवश्यक गुण कथा कविता नाटक कादंबरी लेख इत्यादीचे प्रात्यक्षिकासह अभिवाचन
	B.A. – III (मराठी भाषा व अर्वाचीनाच्या संधी.)	X	विभाग चार आंतरजालावरील मराठी : 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 प्रात्यक्षिकासह लेखन
	B.A. – III वाङ्मय प्रवाहांचे अध्ययनमध्ययुगीन	XVI	विभाग चार टप्पांतपाठातील भाषावैभव शब्दयोगसौष्ठव,अल्पाक्षरत्व,सुलभ रचनाविशेष, म्हणी, वाक्प्रचार,उखाणे,अलंकार वैभव,व्याकरणिक विशेष
November -2023	University Examination		

Month	Class	Paper No.	Units to be completed
December 2023	B. A. - I 'B' (Mar, Opt)-ऐच्छिक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	"बाकी सर्व ठीक आहे" - लोकनाथ यशवंत (विषयक कविता) विभाग एक * जीवाचा आटापिटा, * मुलगा प्रवाह, * एका वृक्षाची गोष्ट, "राम "जीवन सुंदर आहे, * भविष्य, * तडजोड, * पर्सनल मुलाखत
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	विभाग एक १ .संत नामदेव - पतितपावन, पंढरीस जावे. २ .संत कबीर - जगाला आला उफराटा, ठे मुर्खा खूल तर्की ३.महात्मा फुले - मानवांचा धर्म एक ४.बालकवी - फुलराणी, अप्सरांचे गाणे
	B. A. – II साहित्यकृती:चांदण्यात भिजायचं राहून जाऊ नये म्हणून	V	विभाग एक ललितलेख:संकल्पना व स्वरूप चांदण्यात भिजायचं राहून जाऊ नये म्हणून लेख क्र.१ ते ११(आशयसूत्रे व वांग्मयीन विशेष)
	B.A. - III (मराठी भाषा व अर्वाचीनाच्या संधी.)	XV	विभाग तीन "मुद्रितशोधन" संकल्पना,स्वरूप,प्रकार व महत्व महाराष्ट्र शासनाचे लेखनविषयक १८ नियम, अपवाद, उदाहरणे,

			विज्ञानबिन्दवः
	B.A. – III वाङ्मय प्रवाहाचे अध्ययनललित गद्य:	XVI	विभाग एक ललित गद्य :संकल्पना व स्वरूप व्यक्ती चित्रे : संकल्पना व स्वरूप,वैशिष्ट्य आणि पाठ्यांत व्यक्तिचित्र लेखनासाठी आवश्यक गुण
Month	Class	Paper No.	Units to be completed
January 2024	B. A. - I 'B' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	विभाग दोन - गौडबंगाल, पर्यावरण, सोन्याचा वास, मांजर, स्पर्श, बुद्ध असे सुरू होते, जन्म आईचा, शेतमजूर.
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	विभाग दोन ५ विद्या करंदीकर - माझ्या मला कळ दाऽऽ, झपताल. ६ वाहरू सोनवणे - गोदऽऽ, वाळवण म्हणजे. ७ प्रज्ञा दया पवार - माणसासारख्या माणूस असूनही, आज आणि फुकाट. ८ एकनाथ पाटील - शहर एक उलगड पोकळी, शोधयात्रा.
	B. A. – II साहित्यकृती:पांढऱ्यात शिजायचं राहून जाऊ नये म्हणून	V	विभाग दोन - पांढऱ्यात शिजायचं राहून जाऊ नये म्हणून लेख क्र.११ ते २० (आशयसूत्रे व वांग्मयीन विशेष)
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	XV	विभाग ४) "मुद्रितशोधक" ३.मुद्रित शोधनाची महत्त : सांकेतिक क खुणा त्याचे स्पष्टीकरण पहिले वाचन व पुढील मुद्रितशोधन संगणकीय मुद्रितशोधन. ४. मुद्रितशोधनाचे प्रात्यक्षिक कार्य: वर्तमानपत्र, नियतकालिक,ग्रंथ, छापील मजकूर लेख ६.
	B.A. – III वाङ्मय प्रवाहाचे अध्ययनललित गद्य:	XVI	विभाग दोन - १.राग मैत्रकुली - व्यंकटेश माडगुळकर २.मृत्यूचे पुंजन घेणारा महाकवी-प.के .अत्रे ३.सिंधू मान –अण्णाभाऊ साठे ४.जोगणी –विभावरी शिरुरकर

Month	Class	Paper No.	Units to be completed
February 2024	B. A. - I 'B' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	विभाग तीन - वृत्तपत्रीय लेखन, बातमी, अग्रलेख, वाचकांच्या पत्रव्यवहार, जाहिरात/ डिस्पॅच परीक्षण.
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	II	विभाग तीन * निबंधाचे स्वरूप, व्याप्ती, निबंधाचे घटक, निबंधाचे प्रकार, निबंधाची वैशिष्ट्ये.
	B. A. – II साहित्यकृती:पांढऱ्यात शिजायचं राहून जाऊ नये म्हणून	V	विभाग तीन - पांढऱ्यात शिजायचं राहून जाऊ नये म्हणून लेख क्र.२१ ते २९ (आशयसूत्रे व वांग्मयीन विशेष)

	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	XV	विभाग चार स्पर्धापरीक्षेसाठी मराठी १.स्पर्धापरीक्षेचे स्वरूप, सरळसेवा, कम्बाईन, राज्यसेवा, संघ लोकसेवा आयोग २.स्पर्धापरीक्षामधील मराठीचे स्वरूप, अभ्यासक्रम परिचय
	B.A. – III वाङ्मय प्रवाहाचे अध्ययनलक्षित गद्य	XVI	विभाग तीन ५.जगदीश जावध-हमीद दलवाई ६.,व्यंकटअण्णा –व.वा.बोरे ७.ठणठण गोपाल –उत्तम कांबळे ८. विषकार –अरुण साधकर

Month	Class	Paper No.	Units to be completed
March 2024	B. A. - I 'B' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	विभाग चार - पत्रलेखन, पत्रलेखनाचे स्वरूप व प्रकार, पत्रलेखनाचे बदलते स्वरूप, ई - पत्रव्यवहार, आकलन, आकलनाचे स्वरूप, उताऱ्याचे आकलन, कवितेचे आकलन
	B. A. - I 'B' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"झलकअंहिता".	II	विभाग चार छत्रछिक्षकासह लिखाण तेखन.
	B. A. – II साहित्यकृती:वांङ्मयात जिज्ञासवं राहुन जाऊ नये म्हणून	V	विभाग चार उपयोजित मराठी :ललितमय लेखन कौशल्य ललितमय:संकल्पना व स्वरूप ललितमयाचे विशेष ललितमयाचे प्रकार
	B. A. – III (मराठी भाषा व अर्थार्जनाच्या संधी)	XV	विभाग चार ३.स्पर्धा परीक्षेसाठी कौशल्य, वाचन, नोट्स, लेखन, हस्ताक्षर, वेळेचे व्यवस्थापन, सराव, संदर्भसाहित्य. ४.स्पर्धापरीक्षेचे स्वरूप व मूल्यमापनाची पूर्वतयारी व तंत्र
	B.A. – III वाङ्मय प्रवाहाचे अध्ययनलक्षित गद्य	XVI	विभाग चार ९. डीस-इंद्रजित भालेराव १०.बाबा मास्तर –दि.बा.पाटील ११.दादासाहेब पस्ताद –सयाजीराजे गोकाकी १२.होकेवाला संजोयन.दादाजी रामजी खोब्रागडे –व्ही.एच.दिंडे
April 2024	University Examination		

प्रा. डॉ. मोहन गोविंद खंडे
एम.ए., एम.फिल., पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
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शिक्षण प्रसारक संस्थेचे

पद्मभूषण वसंतरावदादा पाटील महाविद्यालय, कवठेमहांकाळ

मराठी अधिविभाग

ANNUAL TEACHING PLAN

(Academic Year: 2023-24)

Dr. Saraswati L. Andelwar
Assistant Professor,
Dept. of Marathi

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From 3rd July 2023 Term Start	B. A. - I 'C' (Mar, Opt) - ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	* कथा - लिंबडक माणकर चंदनशिव विभाग एक - १ उमाळा २ जांभळवन्हळ ३ तडा
	B. A. - I 'A' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	लापाश गुलाबी गोष्ट (संपा.) अरुण शेवते (लिंबडक तेजा) विभाग एक १. लिंबड - वसंतराव दादा २. वाटेवरच्या सावल्या – कुसुमाग्रज ३. पन्नास पैकी शून्य मार्क. - शांताबाई शेळके
	B. A. – II (Mar, Opt)- पक्षांचे तक्ष थवे- ना.धो.महानोर निसर्गसंवाद विषयक कविता	IV	विभाग एक निसर्गसंवाद विषयक कविता: १.हा शेताने लळा.. २.हा जगाने हा भुईला दाल.. ३.मीच माझा एककल्ली ४.लांगरून पडलेली जमीन ५.लटीचा काठ ६.लटी काठावर ७.झाडे झाली हिरवीशी ८.जरा असमान झुकले ९.पक्षांचे तक्ष थवे १०.जन्मापासूनचे दुःख ११.वा झाडांचे रंग १२.जल बिंब पावसाळी
	B.A. - III (मराठी वाङ्मयाचा इतिहास प्रारंभ ते १५००)	IX	विभाग एक – मराठी वाङ्मयाचा इतिहास प्रारंभ ते इ.स. १२०० पर्यंत विविध लिंबू पूर्वकालीन रचना, आदयकवी मुकुंदराज यांचा परिचय, मराठीतील आद्य पद्यरचनेची महानुभाव यांची रचना.
	B.A. - III (मराठी भाषा व अर्वाचीनाच्या संधी.)	X	विभाग एक संगीतातेसाल : संगीतातेसाल संकल्पना व स्वरूप कथा - संकल्पना व स्वरूप.

Month	Class	Paper No.	Units to be completed
August 2023	B. A. - I 'C' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक - "अक्षरबंध".	I	विभाग दोन – ४ वासना ५ लाल विशाल ६ पाणी
	B. A. - I 'A' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक -"शब्दसंहिता".	I	विभाग दोन ४ शब्दाचे मोल - चंद्रशेखर गंगाधिकारी ५ संगणकाचे विचार - रमा पवार

			६ संकल्प सिद्धीस नेणारा महापुरुष : डॉ. बाबूजी साळुंखे. - कवंत देशमुख
	B. A. – II प्रेमभावलेल्या कविता		विभाग दोन प्रेमभावलेल्या कविता १.वावटीची शेंग २.फुलपात व्हावी ३.विस्तीर्ण नदीचा काठ ४.पाण्यात तरंगते पाय ५. चोर तोच्यात ऐव मयत ६.डोळे बंद्रून ... ७. व्हाल्या झुल्या पोरी ८.बुकल्या व्हातेल्या केसांला ९. लको पायात पैंजण १०. पहयांची भाषा ११. देठाच्या ओलव्यांचे १२ माझ्याच्या मरणात
	B.A. - III (मराठी वाङ्मयाचा इतिहास प्रारंभ ते १९००)	IX	विभाग दोन – महानुभावीय गद्य वाङमय , ज्ञानेश्वर, केशोबास, महानुभावीय पद्य वाङमय, ज्ञानेश्वर
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	X	विभाग एक)- अर्जनशीलतेचे जतन : कथेचे घटक, प्रत्यक्षिकासह कथा लेखन.

Month	Class	Paper No.	Units to be completed
September 2023	B. A. - I 'C' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	विभाग तीन विषपट म्हणजे काय? ,विषपट एक दृकश्राव्य साधन, विषपट मार्गदर्शक, विषपटाचा दीर्घकालीन, उपयोगिता
	B. A. - I 'A' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक - "शब्दसंहिता".	I	विभाग तीन * व्यक्तिमत्व संकल्पना. * व्यक्तिमत्व विकासासाठी आवश्यक घटक. * व्यक्तिमत्व विकासात भाषेचे महत्व.
	B. A. – II गीतात्म कविता		विभाग तीन गीतात्म कविता १.हिर्व्या पाचात २. शाडे आली डिसेंशी ३.टिटेवाचणीची वेळ ४. पत्र औबंधून येती ५. आज उदास उदास ६. राजसा जवळी जरा बसा ७. मोऱ्या देठावरती ८. खब जरूर आले ९.दूरच्या रानात १०. विंब पावसानं ११. मोडलेल्या माणसांचे १२. पाणी पाणी पाणी
	B.A. - III (मराठी वाङ्मयाचा इतिहास प्रारंभ ते १९००)	IX	विभाग तीन - इसवी सन 1300 ते 1400 (स्थूल कालखंड) ज्ञानेश्वरांचे कालवर्तीत कार्य, नामदेवांची अभंग रचना, (सावता माळी, गोरा कुंभार, सुदामाई, तेला महाराज, जगदेव सोनार, चोखामेळा, जनाबाई, कान्होपात्रा यांचया रचना)
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	X	विभाग दोन)- वैयक्तिक लेखन : वैयक्तिक लेखन संकल्पना व स्वरूप.

Month	Class	Paper No.	Units to be completed

October 2023	B. A. - I 'C' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	I	विभाग चार चित्रपटाची कथा - पटकथा - संवाद, चित्रपटाचे संगीत - गीत , अभिनय, एडी, प्रसाधन योजना, वेशभूषा, संकलन , संवादन चित्रपटांचा आस्वाद.
	B. A. - I 'A' (Mar, Comp) आवश्यक मराठी पाठ्यपुस्तक - "छन्दसंहिता".	I	विभाग चार * वाङ्मिक कौशल्य - श्रवण, वाचन, लेखन भाषण * कार्यक्रमाचे संयोजन - प्रास्ताविक, परिचय, मनोगत, आभार, सूत्रसंचालन, एकक लेखन.
	B.A. II उपयोजित मराठी गीतलेखन		विभाग चार उपयोजित मराठी-गीतलेखन गीतलेखन संकल्पना व स्वरूप कविता व गीत यामधील साम्यभेद गीतलेखनाचे प्रकार १.बालगीत २.भावगीत ३.चित्रपटगीत ४.जाहिरातीसाठी गीतलेखन ५. प्रार्थनागीत ६.जिंगल्स इत्यादी. प्रात्यक्षिकासह गीतलेखन
	B.A. - III (मराठी वाङ्मयाचा इतिहास प्रारंभ ते १९००)	IX	विभाग चार ५. सन १४०० ते १९०० (स्थूल कालखंड) शब्द संग्रहातील प्रमुख अंकावर आणि त्यांची अंथरचना साचलटकाचा, पोवाडा, लावणी संप्रदाय, शिवकिंत - शिंगणापूर संप्रदाय, मुस्लिम मराठी कवी, ख्रिश्चनी मराठी कविता.
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	X	विभाग दोन वैचारिक लेखन : वैचारिक लेखनाची पद्धत, वैचारिक लेखनाचे प्रकार.
November - 2023	University Examination		

Month	Class	Paper No.	Units to be completed
December 2023	B. A. - I 'C' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	"बाकी सर्व ठीक आहे" - लोकनाथ यशवंत (लिखाण कविता) विभाग एक * जीवनचा आटापिटा, * मुलाच प्रवास, * एका वृक्षाची नोंद, *राग "जीवन सुंदर आहे, * अतिथि, * तहजीब, * पर्यावरण सुसंवाद
	B. A. - I 'A' (Mar, Comp)- आवश्यक मराठी पाठ्यपुस्तक - "छन्दसंहिता".	II	विभाग एक १ .संत वामदेव - पखिराखवन, पंढरीस जावे. २ .अनंत फंदी - जनाला आता उपरटा, हे सुखी मूल तरी ३.महानंदा पुरे - मालवांचा धर्म एक ४.बालकवी - फुलराणी, अजरामरे गाणे
	B. A. - II ' (Mar, Opt)- साहित्यकृती : बलगरवाडी व्यंकटेश माडगूळकर	VI	विभाग एक कादंबरी वाङ्मय प्रकार – संकल्पना व स्वरूप बलगरवाडी :आशयसूत्रे

	B.A. - III (मराठी वाङ्मयाचा इतिहास १९०० ते १८००)	XIV	विभाग एक इ.स पंधराशे ते सोळाशे (स्थूल कालखंड) एकनाथांची साहित्य संपदा, चतुश्लोकी भागवत, एकनाथी भागवत, रामायण, भारूड, गवळणी इत्यादी.
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	XV	विभाग एक प्रसारमाध्यमातील अर्थार्जनाच्या संधी व आर्थिक कौशल्य : मुद्रित माध्यम, संपादन, रुपांतरेशन, जाहिरातलेखन.
Month	**Class**	**Paper No.**	**Units to be completed**
January 2024	B. A. - I 'C' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	विभाग दोन - गोडबंगाल, पर्यावरण, सोन्याचा दात, मांजर, स्पर्श, बुद्ध असे युग होते, जत्रा आईचा, शेतमजूर.
	B. A. - I 'A' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक - "शब्दसंहिता".	II	विभाग दोन ५ विठा कारेकर - माझ्या मना बन दगड, अभंगात. ६ वाहरू सोनवणे - मोबाइल, वाचाळ महाराजे. ७ प्रज्ञा दया पवार - माणसाच्या माणूस असण्याची, आम्ही आणि तुम्ही. ८ एकनाथ पाटील - अहंचा एक उडाम पोलखी, शोधयात्रा.
	B.A.-II साहित्यकृती : बलगरवाडी – व्यंकटेश माडगूळकर		विभाग दोन बलगरवाडी:व्यक्तिरेखा, वातावरण ,घटना, प्रसंग.
	B.A. - III (मराठी वाङ्मयाचा इतिहास १९०० ते १८००)	XIV	विभाग दोन इ.स सोळाशे ते सतराशे (स्थूल कालखंड) तुकारामांची अभंग रचना, रामदासांची ओंवीरचना करणगाहटक, रामायण, मनाचेश्लोक, दासबोध, स्फुट प्रकरण.
	B.A. - III (मराठी भाषा व अर्थार्जनाच्या संधी.)	XV	विभाग एक प्रसारमाध्यमातील अर्थार्जनाच्या संधी व आर्थिक कौशल्य : संपादन, वार्तिन्यपूर्ण उपक्रम, आकाशवाणी निवेदन, मुलाखत तेखन, बातमीलेखन,

Month	Class	Paper No.	Units to be completed
February 2024	B. A. - I 'C' (Mar, Opt)-ऐच्छीक मराठी पाठ्यपुस्तक -"अक्षरबंध".	II	विभाग तीन - वृत्तपत्रीय लेखन, बातमी, अग्रलेख, वार्तापत्रांचा पत्रव्यवहार, वाचक/ चित्रपट परीक्षण.
	B. A. - I 'A' (Mar, Comp)-आवश्यक मराठी पाठ्यपुस्तक - "शब्दसंहिता".	II	विभाग तीन * लिखाणाचे स्वरूप, व्याप्ती, लिखाणाचे घटक, लिखाणाचे प्रकार, लिखाणाची वैशिष्ट्ये.
	B. A. – II साहित्यकृती : बलगरवाडी – व्यंकटेश माडगूळकर		विभाग तीन बलगरवाडी : वाङ्मयीन विशेष
	B.A. - III (मराठी वाङ्मयाचा इतिहास १९०० ते १८००)	XIV	विभाग तीन इ.स. सोळाशे ते अठराशे (स्थूल कालखंड) लिखडक पंडित कवींच्या कवनाचा अभ्यास : मुक्तेश्वर, वामन पंडित, मुक्तेश्वर पंडित, शीधर, मोरोपंत.

	B.A. – III (मराठी भाषा व अर्थार्जनाच्या संधी.)	XV	विभाग दोन उद्योग व सेवाक्षेत्रातील अर्थार्जनांच्या संधी : सेवा क्षेत्रातील अर्थार्जनांच्या संधी व आधिक कौशल्ये, उद्योग व सेवा क्षेत्र आणि मराठी भाषा.

Month	Class	Paper No.	Units to be completed
March 2024	B. A. - I 'C' (Mar, Opt)- ऐच्छीक मराठी पाठ्यपुस्तक - "अक्षरबंध".	II	विभाग चार - पत्रलेखन, पत्रलेखनाचे स्वरूप व प्रकार, पत्रलेखनाचे बदलते स्वरूप, ई - पत्रव्यवहार, आकलन, आकलनाचे स्वरूप, उताऱ्याचे आकलन, कवितेचे आकलन
	B. A. - I 'A' (Mar, Comp)- आवश्यक मराठी पाठ्यपुस्तक - "छन्दसंहिता".	II	विभाग चार * प्रात्यक्षिकासह निबंध लेखन.
	B. A. – II साहित्यकृती : बलगाडी – व्यंकटेश माडगूळकर		विभाग चार उपयोजित मराठी: रिपोर्ताज लेखन रिपोर्ताज लेखनाची संकल्पना रिपोर्ताज लेखनाचे स्वरूप रिपोर्ताज लेखनाचे प्रकार १ राजकीय २. सामाजिक ३. पर्यावरणीय ४. आरोग्यविषयक ५.शिक्षणविषयक ६. सांस्कृतिक इत्यादी प्रात्यक्षिकासह रिपोर्ताज लेखन
	B. A. – III (मराठी पाठ्यभाषा इतिहास १४०० ते १८००)	XIV	विभाग चार इ.स.1500 ते 1800 (स्थूल कालखंड) बखर वाङ्मय, शिवपूर्वकालीन बखरी, शिवकालीन बखरी पेशवेकालीन बखरी : स्वरूप - विशेष, शाहिरी वाङ्मय (लावणी, पोवाडा) अनंत फंदी, परशुराम, राम जोशी, प्रभाकर, होलाजी बाबा.
	B. A. – III (मराठी भाषा व अर्थार्जनाच्या संधी)	XV	विभाग दोन उद्योग व सेवाक्षेत्रातील अर्थार्जनांच्या संधी : विपणनासाठी संवाद कौशल्य, ग्राहक सेवा केंद्र, अनुवाद, मराठी टंकलेखन, तुलिकोड व पीपीटी परिचय.
April 2024	University Examination		

प्रा. डॉ. मोहन गोविंद लोंढे
एम.ए., एम.फिल., पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
कवठेमहांकाळ, जि. सांगली.



Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya

Kavathe Mahankal, Dist.: Sangli.

DEPARTMENT OF HISTORY

TEACHING PLAN

2023-24

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A.I (Div.B) Sem.: I

Paper No. I: Rise of Maratha Power (1600-1707)

Faculty Name: Mr. S.N.Pol

Month	Topic
July	**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
August	**2. Chhatrapati Shivaji Maharaja's achievement till 1680** a. Treaty of Purandar and Visit to Agra b. Coronation c. Expedition to Karnataka
September	**3. Maratha War of Independence (1681-1707)** a. Chhatrapati Sambhaji Maharaj b. Chhatrapati Rajaram Maharaj c. Maharani Tarabai
October	**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
November	Review of Syllabus Unit Test

Head

Head
Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A.I (Div.B) Sem.: II

Paper No.II: Polity, Society and Economy under the Marathas (1600-1707)

Faculty Name: Mr. S.N.Pol

Month	Topic
July	**1. Polity** a. Civil administration: administrative structure, Ashtapradhan b. Judicial administration: judicial structure, gotsabha, divya c. Military administration: forts and navy
August	**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
September	**3- Society and Religion** a. Village communities: Vatandar, Mirasdar, Balutedar-Alutedar and Upare b. Pandharpur movement c. Pilgrimage Centers: Kolhapur, Shikhar Shinganapur, Tuljapur
October	**4. Chhatrapati Shivaji Maharaj: Policy and Contribution** a. Administration and Management b. Trade and Agriculture c. Religion
November	Review of Syllabus Unit Test

Head

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Department of History
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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: III

Paper No. IV: History of India (1757-1857)

Faculty Name: Mr.S.N.Pol

Month	Topic
July	**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
August	**2- Making of a Colonial Policy** a) Dual Government – Robert Clive b) Subsidiary Alliance - Lord Wellesley c) Doctrine of Lapse - Lord Dalhousie
September	**3- Making of a Colonial Economy** a) Land revenue settlements- (Permanent Settlement, Rayatvari, Mahalvari) b) De-industrialization c) Drain of Wealth
October	**4- Revolts against Company Rule** a) Tribal Revolts b) Revolt of 1857 c) Queen's Proclamation of 1858 and its effects
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: III

IDS Paper No. I: History of Social Reforms in India

Faculty Name: Mr. Pol S.N.

Month	Topic
July	**1- Socio-Religious Reform Movements** a) Raja Ram Mohan Roy and Brahmo Samaj b) Swami Dayanand Sarasvati and Arya Samaj c) Swami Vivekanand and Ramakrishna Mission
August	**2- Mahatma Phule** a) Educational and Social Work b) Satyashodhak Samaj c) Thoughts of Mahatma Phule (with special reference to Shetkaryancha Asud and Gulamgiri)
September	**3- Rajashri Shahu Maharaj** a) Educational and Social upliftment of lower classes b) Women's Rights c) Hostel Movement
October	**4- Dr. Babasaheb Ambedkar** a) Thoughts on Annihilation of Caste b) Mahad Incident and the Temple entry movement c) Social Justice and Indian Constitution
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: IV

Paper No. VI: History of Freedom Struggle (1858-1947)

Faculty Name: Mr. S.N.Pol

Month	Topic
November	**1- Rise of Nationalism** a) Formation of Indian National Congress
December	b) Contribution of Moderates c) Contribution of Extremists (Swadeshi Movement and Home Rule Movement) Unit Test
January	**2- Gandhian Era** a) Non-Cooperation Movement b) Civil Disobedience Movement c) Quit India Movement
February	**3- Other Strands** a) Revolutionary Movement b) Leftist Movement
March	c) Subhash Chandra Bose and Indian National Army Unit Test **4- Communalism and Partition** a) Concept of Communalism
April	b) Causes for Partition c) Effects of Partition Unit Test
May	Review of syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: IV

IDS Paper No. II: History of Social Reforms in Maharashtra

Faculty Name: Mr. S.N.Pol

Month	Topic
November	**1- Beginnings of Social Reform** a) Social condition in early 19th century
December	a) Social condition in early 19th century b) Paramhansa Mandali c) Prarthana Samaj
January	**2- Women Reformers** a) Savitribai Phule b) Tarabai Shinde c) Pandita Ramabai
February	**3- Social Reformers** a) Lahuji Salve b) Maharshi Vitthal Ramji Shinde c) Gadage Maharaj
March	d) Annabhau Sathe Unit Test **4- Educational Reforms** a) Karmaveer Bhaurao Patil b) Dr. Bapuji Salunkhe c) Punjabrao Deshmukh
April	a) Karmaveer Bhaurao Patil b) Dr. Bapuji Salunkhe c) Punjabrao Deshmukh
May	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: V

Paper No. IX: Age of Revolutions

Faculty Name: Mr. S.N.Pol

Month	Topic
July	**1- Reformation (16th Century)** a) Causes b) Role of Martin Luther c) Consequences
August	**2- Industrial Revolution (18th Century)** a) Causes b) Major Developments c) Effects
September	**3- American Revolution (1776)** a) Causes b) Important events c) Impact
October	**4- French Revolution (1789)** a) Causes b) Important events and major leaders c) Impact on the world
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: V

Paper No. X: Political History of the Marathas

Faculty Name: Mr. S.N.Pol

Month	Topic
July	**1- 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
August	**2- Balaji Bajirao and Battle of Panipat(1761)** a. Relations with Angre b. Conflict with Raghuji Bhosale c. Battle of Panipat-1761
September	**3- Political condition after 1761** a. Madhavrao Peshwa b. Mahadji Shinde c. Nana Phadnavis
October	**4- Decline of the Maratha Power** a. Peshwa Bajirao II b. Second and Third Anglo- Maratha War c. Causes for the decline of Maratha power
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: VI

Paper No. XV: Polity, Economy and Society under the Marathas

Faculty Name: Mr. S.N.Pol

Month	Topic
November	**1- Sources** a. Importance of sources
December	b. Indian Sources: Sanskrit, Marathi, Persian c. Foreign sources: Portuguese and English Unit Test
January	**2- Polity under the Marathas** a. Concept of Kingship b. Asthapradhan Mandal c. Transfer of power – Chhatrapati to Peshwa, Peshwa to Karbhari
February	c. Transfer of power – Chhatrapati to Peshwa, Peshwa to Karbhari **3- Economic condition** a. Agrarian system – Land Revenue, Irrigation b. Industry
March	c. Trade and Commerce **4- Social condition** a. Social Structure - Family, Untouchability, Vethbegar, Slavery. b. Condition of women and caste system
April	c. Education and Festivals Unit Test
May	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: VI

Paper No. XIV: Making of the Modern World (16th to 19th Century)

Faculty Name: Mr. S.N.Pol

Month	Topic
November	1- Glorious Revolution a) Causes
December	a) Causes b) Major events c) Consequences Unit Test
January	2- Nationalism a) Causes for the rise and spread of Nationalism b) Unification of Italy and Germany c) Impact
February	3- Imperialism a) Causes for rise and growth of Imperialism b) Partition of Africa
March	c) Impact on the world Unit Test 4- Important Personalities a) Metternich
April	b) Karl Marx c) Abraham Lincoln
May	Review of Syllabus

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TEACHING PLAN 2023-24

Class : B.A.I (Div.A) Sem.: I

Paper No. I: Rise of Maratha Power (1600-1707)

Faculty Name: Mr. H.V.Pawar

Month	Topic
July	**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
August	**2. Chhatrapati Shivaji Maharaja's achievement till 1680** a. Treaty of Purandar and Visit to Agra b. Coronation c. Expedition to Karnataka
September	**3. Maratha War of Independence (1681-1707)** a. Chhatrapati Sambhaji Maharaj b. Chhatrapati Rajaram Maharaj c. Maharani Tarabai
October	**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
November	Review of Syllabus Unit Test

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A.I (Div.A) Sem.: II

Paper No.II: Polity, Society and Economy under the Marathas (1600-1707)

Faculty Name: Mr. H.V.Pawar

Month	Topic
July	**1. Polity** a. Civil administration: administrative structure, Ashtapradhan b. Judicial administration: judicial structure, gotsabha, divya c. Military administration: forts and navy
August	**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
September	**3- Society and Religion** a. Village communities: Vatandar, Mirasdar, Balutedar-Alutedar and Upare b. Pandharpur movement c. Pilgrimage Centers: Kolhapur, Shikhar Shinganapur, Tuljapur
October	**4. Chhatrapati Shivaji Maharaj: Policy and Contribution** a. Administration and Management b. Trade and Agriculture c. Religion
November	Review of Syllabus Unit Test

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: III

Paper No. III: History of Modern Maharashtra(1900 to 1960)

Faculty Name: Mr. H.V.Pawar

Month	Topic
July	**1- Rise and Growth of Nationalism** a) Rise of Nationalism b) Contribution of Gopal Krishna Gokhale c) Contribution of Lokmanya Tilak
August	**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 PratiSarkar Movement
September	**3- Social Movements** a) Peasants and Workers b) Women's rights c) Emancipation of Backward Classes
October	**4- Samyukta Maharashtra Movement** a) Background b) Contribution of the Samyukta Maharashtra Samiti c) Events leading to the formation of Maharashtra State
November	Review of Syllabus

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TEACHING PLAN 2023-24

Class : B.A. II Sem.: III

IDS Paper No. I: Ancient Indian History and Culture

Faculty Name: Mr. H.V.Pawar

Month	Topic
July	**1-Early Humans** a. Hunter-Gatherers (Paleolithic and Mesolithic)-Life ways b. Settlers(Neolithic)-Life ways c. Megalithic (with special reference to Maharashtra)
August	**2-Harappan Civilization** a. Town Planning b. Economic and Religious Life c. Decline of Harappan civilization
September	**3- Vedic Culture** a. Vedic Literature (Vedas and Upanishads) b. Political and Economical Life c. Social and Religious Life
October	**4- India in 6 th Century BC** a. Second Urbanization b Jainism c. Buddhism d. Ajivikas Suggestive
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: IV

Paper No. V: History of Modern Maharashtra (1960-2000)

Faculty Name: Mr. H.V.Pawar

Month	Topic
November	**1- Leaders** a) Congress : Yashavantrao Chavan, Vasantdada Patil
December	a) Congress : Yashavantrao Chavan, Vasantdada Patil b) Socialist: Nagnathanna Nayakawadi, S. M. Joshi, P. K. Atre c) Communist: Comrade S. A. Dange
January	**2- Major Issues and Events** a) Agriculture Development with special reference to the role of Vasantrao Naik b) Industry- Sugar (Pravara Sugar Factory) & Milk (Aarey Dairy Mumbai)
February	c) Natural Disasters (Earthquakes- Koyna 1967 and Latur 1993) Unit Test **3- Social Movements** a) Muslim Satyashodhak Samaj
March	b) Satyashodhak Communist Party c) Vidrohi Movement Unit Test **4- Educational Development** a) Primary
April	b) Secondary c) Higher and Technical Education Unit Test
May	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. II Sem.: IV

IDS Paper No. II: Ancient Indian History and Culture

Faculty Name: Mr.H.V.Pawar

Month	Topic
November	**1-Mauryan Empire** a. Chandragupta Maurya and the foundation of Empire
December	b. Ashoka and his Dhamma c. Literature, Art, and Architecture Unit Test
January	**2-The Age of Satvahana and Kushana** a. Major rulers of Satvahanas: Satkarni I and Gautamiputra Satkarni b. Major ruler of Kushanas: Kanishka
February	c. Literature, Art, and Architecture Unit Test **3- Gupta and Post-Gupta period** a. Major Gupta Rulers: Samudragupta and Chandragupta II
March	b. Harshavardhana c. Literature, Art, and Architecture **4- Legacy of Ancient India** a. Monuments: Stupa (Sanchi), Kailas Temple (Ellora), Chaitya-Vihara (Karle)
April	b. Paintings (Ajanta) and Sculptures (Gandhara and Mathura style) c. Literature and Science: Epics (Ramayana and Mahabharata) and Drama of Kalidas Unit Test
May	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class: B.A. III Sem.: V

Paper No. VIII: History of Medieval India (1206-1526 AD)

Faculty Name: Mr. H.V.Pawar

Month	Topic
July	**1- Sources** a) Literary: Tarikh-i- Firozshahi, Amuktamalyada b) Archaeological (excluding Monuments) c) Account of Foreign Travelers: Ibn Battuta, Domingo Paes
August	**2 - 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
September	**3 - Administration and Economy(Delhi Sultanate and Vijaynagar)** a) Administration : Central and Provincial b) Agriculture and Land Revenue c) Industry and Trade
October	**4- 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.
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: V

Paper No. XI: History: Its Theory

Faculty Name: Mr. H.V.Pawar

Month	Topic
July	**1- History: Definition and Scope** a) Meaning, Scope and Nature b) Types of History c) Interdisciplinary Approach
August	**2- Acquisition of Historical Data** a) Sources: Nature and Types b) Methods of Data Collection c) Methods of Critical Enquiry
September	**3- Process of presenting and writing history** a) Steps of Historical Research b) Data Analysis and Interpretation c) Presentation
October	**4- Methods of History writing** a) Notetaking b) Footnotes and Endnotes c) Index, Appendix, Bibliography
November	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: VI

Paper No. XVI: Methods and Applications of History

Faculty Name: Mr. H.V.Pawar

Month	Topic
November	**1- Archival Sources** a) Meaning, types, and importance of Archives
December	b) Types of Records c) Concept of Digital Archives **2- Recent Trends in History** a) Local History
January	b) Oral History c) Tools of Local History (Survey, Interview, Questionnaire) d) Interview Technique Unit Test
February	**3- Museology** a) Definition, Nature and Importance of Museum b) Types of Museums c) Methods of Collection, Conservation and Preservation Techniques of Objects
March	**4- Understanding Heritage Tourism** a) Concept, Scope and Significance of Heritage Tourism b) Meaning and Historical Perspective of Tourism
April	c) World Heritage Sites in India Unit Test
May	Review of Syllabus

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DEPARTMENT OF HISTORY

TEACHING PLAN 2023-24

Class : B.A. III Sem.: VI

Paper No. XIII: History of Medieval India (1526-1707 AD)

Faculty Name: Mr. H.V.Pawar

Month	Topic
November	**1- Sources** a) Literary: Akbarnama, Gulshan -i -Ibrahimi
December	a) Literary: Akbarnama, Gulshan -i -Ibrahimi b) Archaeological (excluding monuments) c) Accounts of Foreign Travelers: Francois Bernier, Niccolo Manucci
January	**2- Major Rulers** a) Babar: Battle of Panipat and foundation of Mughal empire. b) Akbar: Rajput policy c) Chandbibi
February	d) Ibrahim Adilshah II Unit Test **3- Administration and Economy** a) Administration: Central and Provincial
March	b) Land Revenue: Akbar and Malik Ambar c) Industry and Trade **4- Religion, Society and Culture** a) Religious Policy: Akbar and Aurangzeb
April	b) Society: Hindu and Muslim c) Architecture: Mughal and Adilshahi Unit Test
May	Review of syllabus

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher: - Dr. D. A. Gade

Class: **B.A.-I** Division: 'B' SEM:-**I**

Subject: **DSE-1 Geography** Paper title: **Physical Geography.** Paper No.: **I**

Month	Topic/Unit	Sub-units Planned
July	Module – I Introduction to Physical Geography	Admission Process Syllabus and Introduction Meaning and Definitions Scope of Physical Geography Branches of Physical Geography Importance of Physical Geography
August	Module- II Lithosphere	Interior of the earth Wagner's Continental Drift Theory Earthquakes – Causes and Effects Volcano – Causes and Effects
Sept	Module – III Denudation	Weathering: Concept and Types Davis Concept of Cycle of erosion Erosional Landforms of river. Depositional Landforms of river.
Oct	Module – IV Atmosphere	Composition and Structure of Atmosphere Insolation: Factors affecting on Insolation Temperature: Distribution of temperature Atmospheric Pressure: Belts and Planetary Winds.
Nov	Module –V	Map (Practical) Map: Definition and Types Maps and Glob- Similarities and Differences Significance and use of maps and glob

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher:- Dr. D. A. Gade

Class: **B.A.-I** Division: 'B' SEM:-**II**

Subject: **DSE-2, Geography** Paper title: **Human Geography.** Paper No.: **II**

Month	Topic/Unit	Sub-units Planned
Dec	Module- I Human Geography	Syllabus and Introduction Definitions of Human Geography Scope of Human Geography Branches of Human Geography Importance of Human Geography
Jan	Module –II Population	Factors affecting on distribution of population Malthus' theory of Population Growth Demographic Transition Theory Migration: Types and Effects
Feb	Module –III Settlement	Types and patterns of rural settlements Functions of Rural Settlements Factors affecting on urbanization Functions of Urban Centers
March	Module – IV Agriculture	Origin and History of Agriculture Types of Agriculture Factors affecting on agriculture Problems of Agriculture
April	Module – IV Google Earth	Concept of Google Earth Application of Dot, Line and Polygon according to Features Exercise with Google Earth Programme

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher:- Dr. D. A. Gade

Class: **B.A.-II** SEM:-III Paper: I

Subject: **GE-1, Tourism Geography** Paper title: **Concept in Tourism Geography**

Month	Topic/Unit	Sub-units Planned
July/Aug	Module I: Introduction to Tourism Geography	Syllabus and Introduction Definition of Tourism and Tourist Nature of Tourism Geography
Sept		Scope of Tourism Geography Historical development of Tourism Significance of Tourism Geography
Oct	Module II: Classification and Recent Trends in Tourism	Classification on the basis of Nationality, Time , Number of Tourist, Transportation and season Recent Trends in Tourism
Nov	Module III: Impact of Tourism	Economic Impact Socio-Cultural Impact

ANNUAL TEACHING PLAN-2023-24

Name of Teacher:- Dr. D. A. Gade
Class: **B.A.-II (IDS)** SEM:-II Paper No.: **II**
Subject: **GE-2, Tourism Geography** Paper title: **Development and Planning of Tourism**

Month	Topic/Unit	Sub-units Planned
Dec/Jan	Module I: Development and Planning of Tourism in India	Syllabus and Introduction Tourism in ancient period Tourism in modern period
		Role of tourism in national economy Tourism planning in India
February	Module II: Tourism Centers in India	Natural tourism centers in India Religious tourism centers in India Cultural tourism centers in India Historical tourism centers in India
March	Module III: Development and Planning of Tourism in Maharashtra	Development of Tourism in Maharashtra Planning of Tourism in Maharashtra
April		Revision

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher:- Dr. D. A. Gade

Class: **B.A.-III** SEM:-V

Subject: **E-107, Geography** Paper title: **Population Geography ,** Paper No.: **IX**

Month	Topic/Unit	Sub-units Planned
July Aug	Module -I Introduction to Population Geography	Syllabus and Introduction Definition of Population Geography Nature and Scope of Population Geography Significance of Population Geography Source of Population Data
Sept	Module -II Population Growth and Distribution	World Population Growth Factors affecting on the Population Distribution Population Distribution of the World Population Concepts: Minimum, Optimum and Over Population
Oct	Module -III Population Dynamics	Concept of Population Dynamics Fertility: Concept and Types Fertility: Causes, Effects and Measures Mortality: Concept and Types Mortality: Causes, Effects and Measures
Nov	Module -IV Population Composition	Age Sex Literacy Rural and Urban Population

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher:- Dr. D. A. Gade

Class: **B.A.-III** SEM:-VI Paper No.: **X**

Subject: **E-231, Geography** Paper title: **Economic Geography**

Month	Topic/Unit	Sub-units Planned
Jan	Module – I Introduction to Economic Geography	Syllabus and Introduction Definition, Nature and Scope Concept and Classification of Economic Activity Branches of Economic Geography Significance of Economic Geography
Feb	Module – II Economic Activity	Factors Affecting on Location of Agricultural Activity Factors Affecting on Location of Industrial Activity Alfred Weber's Theory of Industrial Location
March	Module – III Manufacturing Activity	Concept of Manufacturing Region Concept of Special Economic Zone Major Industries: i) Cotton Textile Industry - USA ii) Iron and Steel Industry – USA iii) Sugar Industry – Brazil iv) Automobile Industry – India
April	Module – IV Transport and Trade	Significance of Transportation Major Transport Routs: Roadway, Railway, Airway and Ocean Routs International Trade: India and USA Trade Policies: India and USA

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher:- Dr. D. A. Gade

Class: **B.A.-III** Division: 'A' SEM:-VI

Subject: **DSE, E-235** Paper title: **Advance Tools Techniques & field works** Paper No.: **XIV**

Month	Topic/Unit	Sub-units Planned
Aug	Module-I: Introduction to Computer	Syllabus and Introduction to Computer Application of computer in geography a) Construction of Line Graphs, Bar Graphs b): Construction of Pie Diagram and Scatter Diagram Application of Excel for Data Analysis
Sept	Module:-II: Remote Sensing	Definition of Remote Sensing Fundamentals of Remote Sensing: - Aerial photographs and Satellite imagery: - Determination of Photo Scale Elements of image interpretation Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery
Oct	Module-III: GIS and GNSS	Geographical Information System (GIS) Raster and Vector data Georeferencing, Digitization, Map Layout Preparation Global Navigation Satellite System Exercise with Google earth Program
Nov	Module-IV: Statistical methods and techniques	Measures of Central Tendency:- Dispersion:- Association and Correlation:- Analysis of Time Series:
Dec	Module-V: Surveying	Introduction to Survey: Meaning and types Plane Table survey, Dumpy Level survey, Theodolite survey, Total Station, Abony Level Survey Preparation of plans Prismatic compass survey Types and conversion of bearings.Correction of bearing.
Jan	Module-VI: Project work based on field work any one of following:	Resource survey, Population survey, Agricultural survey, Settlement Survey, Environmental issues, Industrial visit, Health survey, Natural Hazard or Disaster
Feb	Module- VII: Study Tour	Maximum 15 days of Study Tour and preparation of Tour Report/ Journal checking
March		Journal / Project Report/ Study tour Report

Gade

Dr. D. A. Gade



P.V.P. Mahavidyalaya, Kavathe Mahankal

ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Dr. N. S. Pol
Assistant Professor,
Dept. of Geography

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
Jully-2023	B.A. I	I	Introduction to Physical Geography & Meaning and Definitions, Meaning and Definitions
	B.A. II	III	1.1 Definition, Nature and Scope of Soil Geography 1.2 History of Soil Geography and Pedology 1.3 Significance of Soil Geography
	B.A. III Practical	IX	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
		XIII	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

Month	Class	Paper No.	Units to be completed
August-2023	B.A. I	I	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.
	B.A. II	III	2.1 Jenny's Factorial Model of Soil Formation: Parent Material, Biotic, Climatic, Relief and Time factor. 2.2 Process of Soil Formation: Physical, Biotic and Chemical. 2.3 Physical Properties of Soils: Morphology, Texture, Structure, Water, Air and Temperature. 2.4 Chemical Properties of Soils: PH, Organic Matter, NPK (Nitrogen, Phosphorous and Potassium).

	B.A. III	IX	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
	B.A. III Practical	XIII	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) Azumuthal Projection (True Bearing Projection)

Month	Class	Paper No.	Units to be completed
September 2023	B.A. I	I	3.1Interior of the earth 3.2Wagner's Continental Drift Theory 3.3Earthquakes – Causes and Effects 3.4Volcano –
	B.A. II	III	3.1 Genetic Classification of Soils. 3.2 Soil Characteristics and Major Soils Distribution in Maharashtra. 3.3 Soil Degradation: Concept, Causes, Consequences and Measures
	B.A. III	IX	3.1 Environmental Determinism and Possibilism 3.2 Systematic & Regional geography 3.3 Physical & human geography 3.4 The myth and reality about dualisms
	B.A. III Practical	XIII	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

Month	Class	Paper No.	Units to be completed
October 2023	B.A. I	I	4.1Weathering: Concept and Types 6 4.2Davis Concept of Cycle of erosion 4.3Erosional Landforms of river. 4.4Depositional Landforms of river.
	B.A. II	III	4.1 Soil Profile 4.2 Soil Sample: Tools 4.3 Soil Analysis: Saline and Alkaline 4.4 Vermicompost Process
	B.A. III	IX	3.4 The myth and reality about dualisms 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

	B.A. III Practical	**XIII**	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

Month	Class	Paper No.	Units to be completed
November 2023	**B.A. I**	**I**	4.3Erosional Landforms of river. 4.4Depositional Landforms of river.
	B.A. II	**III**	4.3 Soil Analysis: Saline and Alkaline 4.4 Vermicompost Process
	B.A. III	**IX**	4.2 Changing Concept of Space in Geography 4.3 Contribution of Indian Geographer 4.4 Future of Geography
	B.A. III Practical	**XIII**	3.2 Profiles 3.5.1 Superimposed Profile 3.5.2 Composite Profile 3.5.3 Projected Profile 3.5.4 Longitudinal Profile

November/December 2023	University Examination

Month	Class	Paper No.	Units to be completed
December 2023	**B.A. I**	**II**	Definitions of Human Geography 1.2 Scope of Human Geography 1.3 Branches of Human Geography 1.4 Importance of Human Geography
	B.A. II	**IV**	1.1 Definition, Nature, Scope and Significance of Agricultural Geography 1.2 Evolution of agriculture: Ancient, Medieval and Modern Period 1.3 Determinants of Agriculture: Physical and Human (economic, social, cultural, political and administrative)
	B.A. III	**XI**	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
	B.A. III Practical	**XIII**	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

Month	Class	Paper No.	Units to be completed
January 2024	B.A. I	II	Factors affecting on distribution of population 2.2 Malthus' theory of Population Growth 2.3 Demographic Transition Theory 2.4 Migration: Types and Effects
	B.A. II	IV	2.1 Major Agricultural Systems: Nomadic Herding, Livestock Ranching, Sifting Cultivation, Intensive Subsistence Farming, Commercial Farming and Horticulture 2.1 Von Thunen's Theory of Agricultural land-use
	B.A. III	XI	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).
	B.A. III Practical	XIII	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.

Month	Class	Paper No.	Units to be completed
February 2024	B.A. I	II	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
	B.A. II	III	3.1 Methods of Agricultural Regionalization: Crop Combination and Crop Diversification 3.2 Agricultural Problems: Physical and Non-Physical (Economic, Social, Cultural, Political and Administrative) 3.3 Sustainable Agriculture
	B.A. III	XI	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.
	B.A. III Practical	XIII	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

Month	Class	Paper No.	Units to be completed
April 2023	B.A. I	II	4.1 Origin and History of Agriculture 4.2 Types of Agriculture 4.3 Factors affecting on agriculture 4.4 Problems of Agriculture
	B.A. II	III	4.1 Line Graphs 4.2 Bar Graphs 4.3 Divided Circle 4.4 Proportional Squar
	B.A. III	XI	4.1 Urban Issues: problems of transport). 4.2 Concept of Garden 4.3 Case studies of Delhi, Mumbai, with reference to Land use and Urban Issues.
	B.A. III Practical	XIII	Journal Cheeking & Certified Work

Month	Class,	Paper No.	Units to be completed
November/ December2023 April/May 2024	B.A. I	I & II	University Examination
	B.A. II	III & VI	University Examination
	B.A. III	IX, XI, XIII	University Examination

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher: - Mr. D. M. Godase

Class: **B. Com - I** Division: - SEM: - **I**

Subject: **GEC- BC1 Geography** Paper title: **Commercial Geography.** Paper No.: **I**

Month	Topic/Unit	Sub-units Planned
July	Module – I Introduction to Commercial Geography	Admission Process Syllabus and Introduction Meaning and Definitions Scope of Commercial Geography Significance of Commercial Geography
August	Module- II Resources	Meaning and Importance of Resources. Classification of Resources Conservation of Resources and Sustainable economic development. Major Bio Resources and Their International Trade
Sept	Module – III Economic Activities	Classification of economic activities. Factor affecting economic activities. Economic activities and their national economy.
Oct	Module – IV Resources.	Meaning and Definitions of resource. Classification of resources. Conservation of Resources and Sustainable economic development. Importance of Resources.
Nov	Module –V Globalization	Meaning of Globalization Impact of Globalization. Globalization and Indian economy Trade organizations – WTO, OPEC, EEC.

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher: - Mr. D. M. Godase

Class: **B. Com - I** Division: - SEM: **-II**

Subject: **GEC- BC2 Geography** Paper title: **Marketing Geography.** Paper No.: **II**

Month	Topic/Unit	Sub-units Planned
Dec	Module – I Introduction to Marketing Geography	Marketing Geography – Concept and Meaning Marketing Geography- Nature Marketing Geography- Scope Marketing Geography- Significance Marketing Geography- Primary Components
Jan	Module- II Market System	Definition of Market Structure and Significance of Markets. Geographical factor affecting market system Classification of Market
Feb	Module – III Agriculture Marketing	Definition and Significance of Agricultural Marketing. Nature and approaches to the study of Agricultural. Process and system of Agricultural Marketing. Functions and channels of Agricultural Marketing.
March	Module – IV Tourism Marketing in India.	Meaning & Importance of Tourism in India Tourism in Modern Period in India
April	Module - IV Tourism Marketing in India.	Major tourism centers in a) Jammu & Kashmir b) Delhi c) Uttaranchal d) Maharashtra e) Goa f) Kerala

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Name of Teacher: - Mr. D. M. Godase

Class: **B.A.-II** Division: **'A'** SEM: **-III**

Subject: **DSE-D 20 Geography** Paper title: **Resource Geography.** Paper No.: **IV**

Month	Topic/Unit	Sub-units Planned
July	Module – I Introduction to Resource Geography	Admission Process Syllabus and Introduction Meaning and Definitions Scope of resource Geography Resource Geography: Concept and Classification Importance of Resource Geography
August	Module- II Major Resources	Water Resources: Distribution, Utilization and problems Forest Resources: Distribution, Utilization and problems Energy Resources: Distribution, Utilization and problems Human Resources: Distribution, Utilization and problems
Sept	Module – III Sustainable Resource Development	Concept of Sustainable Resource Development Sustainable Natural Resource Development: Water, Forest and Energy. Sustainable Human Resource Development
Oct	Module – IV Sustainable Resource Development in India	Need of Sustainable Resource Development in India Management for Sustainable Natural Resource Development: Water, Forest and Energy. Management for Sustainable Natural Resource Development
Nov	Module –V Practical	Proportional circle Choropleth Map Dot Map Isopleth Map

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Name of Teacher: - Mr. D. M. Godase

Class: **B.A - II** Division: A SEM: **-IV**

Subject: **DSC- D 47 Geography** Paper title: **Oceanography.** Paper No.: **V**

Month	Topic/Unit	Sub-units Planned
Dec	Module – I Introduction to Oceanography	Definition, Nature and Scope of Oceanography Oceanography and Physical Sciences Branches of Oceanography Significance of Oceanography
Jan	Module- II Properties and Dynamics of Ocean	Oceanic Temperature: Factors affecting on ocean temperature and Distribution of oceanic temperature. Salinity of Ocean: Factors affecting on Oceanic salinity and Horizontal distribution of oceanic salinity. Oceanic Currents: Types of Oceanic currents, Responsible factors for Origin of ocean currents and Ocean currents of the Pacific, Atlantic and Indian Ocean.
Feb	Module – III Applied Oceanography	Ocean or Marine deposits: Sources and Classification. Ocean Resources – Biotic- Mineral and Energy Resources. Ocean as sources of food and as storehouse of resources for the future.
March	Module – IV Man, and Oceans.	Manipulation of costal process. Ocean Pollution – Causes, Effects and Measures. Overfishing and fishery management.
April	Module - IV Practical's (Theory Only)	Hypsographic Curve Wind rose Isohalines Isotherms

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher: - Mr. D. M. Godase

Class: **B.A.-III** Division: SEM: **-V**

Subject: **E107** Paper title: **Geography of India.** Paper No.: **VIII**

Month	Topic/Unit	Sub-units Planned
July	Module- I Physical Profile of India	Location (Absolute and Relative) Physiographic Divisions (Characteristics and Importance)
August	Module- I Physical Profile of India	Climate: Summer, Rainy and Winter Seasons in India (weather conditions and Characteristics) Major Drainage Systems: a) Northern River Systems (Sindhu, Ganga & Brahmaputra) b) Southern River Systems (Godavari, Krishna & Cauvery) (Characteristics and Importance)
Sept	Module –II Soils and Forests	Major soil types, characteristics and its distribution in India Soil degradation and soil conservation in India Major forest types: characteristics and their distribution Deforestation and conservation of forests in India
Oct	Module –III Mineral and Power Resources	Conventional Resources: Iron Ore and Manganese (Distribution, Production and Trade) Power Resources: Coal and Mineral Oil (Distribution, Production and Trade) Non-Conventional Resources: Solar and Wind (Distribution, Production and Trade)
Nov	Module – IV Agriculture and Industry	Importance of Agriculture in Indian Economy. Major Crops: Rice and Sugarcane (Distribution, Production and Trade) Importance of Industries in Indian Economy. Industries: Location Factors, Sugar Industry, Iron and Steel Industry and Fertilizer Industry (Distribution, Production and Trade)

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Name of Teacher: - Mr. D. M. Godase

Class: **B.A - III** Division: SEM: **-VI**

Subject: **DSE – E 233** Paper title: **POLITICAL GEOGRAPHY.** Paper No.: **XII**

Month	Topic/Unit	Sub-units Planned
Dec	Module – I Introduction to Political Geography	Definition of Political Geography Nature and Scope of Political Geography Approaches of Political Geography Significance of Political Geography
Jan	Module- II Concepts in Political Geography	State Nation Boundary Frontier
Feb	Module – III Theories in Political Geography	Hartland T: ›ry - Halford J. Mackinder Rimland Tiiory – Nicholas J. Spykeman
March	Module – IV Resource Disputes and Conflicts	Krishna Water Dispute Ganga Water Dispute
April	Module - IV Resource Disputes and Conflicts	Sardar Sarovar Project: Issues of Relief, Compensation and Rehabilitation Chandoli Dam Project: Issues of Relief, Compensation and Rehabilitation

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ANNUAL TEACHING PLAN-2023-24

Name of Teacher: - Mr. D. M. GODASE

Class: **B.A.-III** SEM: - Paper: **XIII (Practical Paper -I)**

Subject: **DSE-E234.** Paper title: **Fundamentals of Map Making and Map Interpretation**

Month	Topic/Unit	Sub-units Planned
July	Module VI: Weather Instruments and IMD Maps	Syllabus and Introduction Study of weather Instruments with reference to Principle, Mechanism, and Function Thermograph Barograph Dry and Wet Bulb Thermometer Cup Anemometer Rain Gauge
Aug	Module VI: Weather Instruments and IMD Maps	Isobaric Patterns: Cyclone, Anticyclone, Col, Ridge, Secondary Depression Signs and Symbols used in Indian Daily Weather Maps Interpretation of Indian Daily Weather Maps Marginal Information, Pressure, Winds, Clouds, Rainfall, Other Conditions, Sea Condition, Temperature departure from normal
Sept	Module VI: Weather Instruments and IMD Maps	Signs and Symbols used in Indian Daily Weather Maps Interpretation of Indian Daily Weather Maps Marginal Information, Pressure, Winds, Clouds, Rainfall, Other Conditions, Sea Condition, Temperature departure from normal
Oct - Nov	Module VI: Representation Techniques of Statistical Data	Divided Rectangle Proportional Circle Proportional Square Choropleth Map Dot map Isopleth

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Shikshan Prasarak Sanstha`s

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Kavathe Mahankal, Dist: Sangli.

Academic Year 2023-24

DEPARTMENT OF ECONOMICS

PADMBHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA

KAVATHE MAHANKAL, Dist- Sangli (Maharashtra) 416405

Department of Economics



ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Mr. Kiran Laxman Sakat
Assistant Professor,
Dept. of Economics

Class: B. A. Part- I, II, & III and B.com part- II

Month	Class	Paper No.	Units to be completed
From 1st August Term Start August 2022	**B. A. I (Indian Economy)**	I	• Major Features of the Indian Economy at Independence • Structural Changes in Indian Economy • Indian Economy and Inclusive growth • Sustainable Development
	B. A. II (Macro Economics)	III	• Meaning, Definitions, Nature and Scope • Difference between Micro and Macro Economics • Importance and Limitations • Macro Economic Variables
	B. A. III (Research methodology in Economics)	X	• Meaning, definitions and objectives of research • Types of research • Significance of research • Areas of economic research
	B. A. III (History of Economic Thoughts)	IX	• Early economic thought, rise of mercantilism, features of Mercantilism • Meaning and causes of emergence of Physiocracy • The concept of natural order and primacy of agriculture • Tableau economique
	B.Com-II (Business Economics)	I	• Meaning, Nature and Scope • Significance of Macro Economics • Limitations of Macro Economics • Macro Economic Variables
September 2022	**B. A. I (Indian Economy)**	I	• Size and Causes of growth of population India • Broad features of Indian Population • Impact of population growth on Economic development

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			• Population Policy 2000
	B. A. II (Macro Economics)	III	• Meaning and Definitions • Different concepts: GDP, GNP,NNP, GDP at market prices and at factor cost, Per Capita Income, Personal Income, Disposable Income. • Methods of Measuring National Income: Product, Income and Expenditure. • Difficulties in the measurement of National Income, Importance of National Income Data.
	B. A. III (Research methodology in Economics)	X	• Literature review- meaning, need, how to carry out a literature review? • Research design- steps in research design • Features of good research design Importance of research design
	B. A. III (History of Economic Thoughts)	IX	• Adam Smith: Division of labour, theory of value and canons of taxation • David Ricardo: Theory of Value and views on distribution • Thomas Malthus: Theory of Population • Theory of Gluts
	B.Com-I (Business Economics)		• Meaning and concepts- GDP,GNP,NNP, Personal and Disposable income, Per capita Income, National income at current and constant prices. • Methods of computing National Income- Product, Income and Expenditure methods • Difficulties in computing National Income • Applications of National Income Data
October 2022	B. A. I (Indian Economy)	I	• Poverty - Meaning and Types • Poverty - Causes and measures • Unemployment - Meaning and Types • Unemployment - Causes and Measures
	B. A. II (Macro Economics)	III	• Definitions and Functions of Money. • Value of Money: Quantity Theory of Money - Transaction Approach, Cash Balance Approach. • Index Number: Meaning and Types, Construction of Simple and Weighted Index Numbers. • Importance of Index Number.
	B. A. III (Research methodology in	X	• Meaning and definition, kinds of hypothesis

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	Economics)		• Features of hypothesis • Importance of hypothesis • Concept- meaning, conceptualization, formal and operational definition of concept
	B. A. III (History of Economic Thoughts)	IX	• Criticism on Classical School • Stages of Economic growth • Concept of Nationalism • Theory of Protectionism
	B.Com-I (Business Economics)		• Concept of Value of Money • Quantity Theory of Money-, Transaction Approach, Cash Balance Approach • Inflation-Causes of Inflation, Inflation and interest rates, Social cost of Inflation, Remedies to control of inflation. • Index Number – Meaning, Construction of Simple and Weighted Index Numbers.
November 2022	B. A. I (Indian Economy)	I	• Economic Inequality- Nature, Causes & Remedies • Social Inequality – Nature, Causes & Remedies • Regional Imbalance – Nature, Causes & Remedies • Human Development Index – Concept, Indicators and Trends
	B. A. II (Macro Economics)	III	• Say's Law of Market. • Keynesian Theory of Employment. • Consumption Function: Average Propensity to Consume (APC), Marginal Propensity to Consume (MPC), Factors affecting Consumption function. • Investment Function, Concept of Multiplier.
	B. A. III (Research methodology in Economics)	X	• Primary and secondary data • Primary data collection methods- observation, questionnaire, interview • Sources of secondary data • Importance of data collection
	B. A. III (History of Economic Thoughts)	IX	• The Concept of Scientific Socialism and Meterialist approach • The Theory of Value • Theory of Surplus Value • Concept of Falling rate of profit
	B.Com-II (Business Economics)	I	• J.B. Say's Law of Market • Keynesian Theory of Employment

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			• Consumption Function - Concept and Types, Factors influencing consumption function • Investment Function- Marginal Efficiency of Capital, Investment Multiplier

December - 2022	University Examination

Month	Class	Paper No.	Units to be completed
January 2023	**B. A. I (Indian Economy)**	**II**	• Changing role of agriculture in Indian Economy • Agricultural productivity: concepts, causes of low agricultural productivity and its measures. • Green Revolution: Causes, Success and failure, Need of 2nd Green Revolution. • Agricultural Pricing and Procurement
	B. A. II (Macro Economics)	**V**	• Meaning, Definitions and Types • Causes of Inflation • Effects of Inflation • Remedies of Controlling Inflation
	B. A. III (Research methodology in Economics)	**X**	• Meaning and nature • Types of sampling • Criteria of good sampling • Optimum size of sampling
	B. A. III (History of Economic Thoughts)	**IX**	• Theory of Value • The concept of representative firm • Consumer's surplus, elasticity of demand • Quasi rent
	B.Com-II (Business Economics)	**I**	• Meaning Features and Types • Phases of Trade Cycles • Theories of Trade Cycles – Hawtrey and Schumpeter • Control of Trade Cycles

February 2023	B. A. I (Indian Economy)	II	• Need of Industrialization • Industrial Policy since 1991 • Problems and prospects of Cottage and Small scale Industries • Foreign Investment Policies since 1991
	B. A. II (Macro Economics)	V	• Meaning and Features. • Phases of Trade Cycles. • Theories of Trade Cycles: Hawtrey, Schumpeter. • Control of Trade Cycles.
	B. A. III (Research methodology in Economics)	X	• Classification of data • Tabulation of data • Percentage • Graphs and diagrams
	B. A. III (History of Economic Thoughts)	IX	• Mahatma Phule: Views on agriculture and education • Rajarshi Shahu Maharaj: Policy for agriculture development and co-Operation • Dr. Babasaheb Ambedkar: Views on money, agriculture and development policy • Dadabhai Nauroji: Drain theory
	B.Com-II (Business Economics)	I	• Meaning, Nature and Scope, The Principle of Maximum Social Advantage • Public Revenue- Meaning, Tax Revenue-Direct and Indirect Taxes - Merits and Demerits, Concept of Goods and Service Tax (GST), Non-Tax Revenue Sources • Public Expenditure- Causes of growth and effects • Public Debt – Forms and Effects, Deficit Financing- Objectives and limitations.
March 2023	B. A. I (Indian Economy)	II	• Growing importance of service sector • Significance of Banks, financial Institutions and Insurance • Importance of IT, Transport, Communication. • Importance of Tourism.



	B. A. II (Macro Economics)	V	▪ Meaning, Nature and Scope. ▪ Principle of Maximum Social Advantage. ▪ Taxation: Direct and Indirect Taxes- Meaning, Merits and Demerits. ▪ Budget: Budgetary process
	B. A. III (Research methodology in Economics)	X	▪ Need and importance of data analysis ▪ Measures of central tendency: mean, mode, median (direct method) ▪ Measures of variation: range, standard deviation (direct method) ▪ Correlation- meaning and importance, Karl Pearson's coefficient of correlation
	B. A. III (History of Economic Thoughts)	IX	▪ Concept of village development ▪ Importance of decentralization ▪ Basic principle of development: swadeshi ▪ Concept of Gram Swarajya
	B.Com-II (Business Economics)	I	▪ Concept of Trade, Internal and International Trade ▪ Advantage and Disadvantage of International Trade, Ricardian Theory of International Trade, Terms of Trade – Meaning, Types and its influencing factors. ▪ Balance of Payments – Causes of disequilibrium, Measures to correct disequilibrium. ▪ Concepts of Free Trade and Protective Trade
April 2023	B. A. I (Indian Economy)	II	▪ Liberalization: Concept, Implementation and Impact on Indian Economy. ▪ Privatization: Concept, Implementation and Impact on Indian Economy. ▪ Globalization: Concept, Implementation and Impact on Indian Economy. ▪ Recent export promotion policy.
	B. A. II (Macro Economics)	V	▪ Public Expenditure: Meaning and Causes of growth of Public Expenditure. ▪ Public Debt: Meaning, Sources and Effects. ▪ Deficit Financing: Meaning, types and

			Methods. • Fiscal Policy: Meaning, Objectives and Instruments.
	B. A. III (Research methodology in Economics)	**X**	• Interpretation of data: meaning • Report writing: meaning, steps, precautions • Properties of good report writing • Writing a good research proposal
	B. A. III (History of Economic Thoughts)	**IX**	• Gopal Krishna Gokhale's views on public finance • D. R. Gadgil: Views on co-operative development and decentralization of power, co-operative commonwealth • V. M. Dandekar: Views on poverty • Amartya Sen: Concept of social choice, choice of techniques, Sen's views on poverty and public action
	B.Com-II (Business Economics)	**I**	• Concept of Rate of Exchange • Types – Fixed, Flexible , Spot and Future rate of exchange • Purchasing Power Parity Theory • Modern Theory of rate of exchange

May 2023	**University Examination**

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Department of Economics
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Shikshan Prasarak Sanstha's

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Department of Economics



ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Ramdas Ramesh Vasave
Assistant Professor,
Dept. of Economics

Class: B. A. Part- II, & III B.COM. Part- I, III,

Month	Class	Paper No.	Units to be completed
From 3rd Jully .2023 Term Start Jully – 2023	B.Com. I (Micro Economics)	I	1.1 Concept of Demand, Defects of Cardinal Approach 1.2 Indifference Curve Analysis – Meaning, indifference curve map, properties, Marginal rate of substitution (MRS) 1.3 Consumer's equilibrium and Consumer Surplus 1.4 Application of indifference curve.
	B. A. II (Co-Operation)	I	1.1 Origin of Cooperative Thought 1.2 Robert Owen, Dr. William King, Charles Fourier 1.3 Rochdale Pioneers 1.4 Raiffeisen and Scheultze Delitsche
	B. A. III (Economics of Development-I)	X	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
	B.COM. III (Co-Operation)	I	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 (Vaidhyanathan Committee, Shivaji Rao Patil Committee and Kurian and Alagh Committee)
	B. A. III (International Economics)	XI	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

Month	Class	Paper No.	Units to be completed
August-2023	B.Com. I (Micro Economics)	I	2.1 Meaning and Objectives 2.2 Factors influencing demand forecasting 2.3 Methods of Demand Forecasting – Market Survey, Time series and Graphical method. 2.4 Importance of demand forecasting in Business decision making.
	B. A. II (Co-Operation)	I	2.1 Meaning and Definition of Co- Operation 2.2 Features and Importance of Co- Operation 2.3 Development of Cooperative Principles, Manchester Co- Operative Principles. 2.4 International Co-Operative Alliance (ICA) - Organization and Functions
	B. A. III (Economics of Development-I)	X	2.1 Underdevelopment and characteristics 2.2 Factors affecting economic development 2.3 Features of economic growth 2.4 Developmental status of Indian economy
	B.COM. III (Co-Operation)	I	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.
	B. A. III (International Economics)	XI	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

Month	Class	Paper No.	Units to be completed
September-2023	B.Com. I (Micro Economics)	I	3.1 Concept of production function - fixed and variable inputs. 3.2 Theories of production: Law of variable proportions and Law of Returns to scale 3.3 Internal and External economies and diseconomies of scale. 3.4 Isoquants- Concept, Economic region of production, optimal combination of resources
	B. A. II (Co-Operation)	I	3.1: Meaning and Need of Cooperative Audit 3.2: Types of Co-Operative Audit

	B. A. III (Economics of Development-I)	X	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
	B.COM. III (Co-Operation)	I	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
	B. A. III (International Economics)	XI	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

Month	Class	Paper No.	Units to be completed
October - 2023	B.Com. I (Micro Economics)	I	4.1 Cost of production – Money and Real cost, Private and Social cost, Opportunity cost. 4.2 Short and long run cost curves. 4.3 Modern approach of cost curves. 4.4 Revenue – Total, Average and Marginal revenue- Revenue curves in perfect competition and imperfect competition.
	B. A. II (Co-Operation)	I	4.1: Role of State in the Development of Co-Operative Movement 4.2: Forms of State- Aid to Co-Operatives 4.3: Role of Co-Operative Registrar 4.4: Effects of Globalization on Co-Operative Movement
	B. A. III (Economics of Development-I)	X	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
	B.COM. III (Co-Operation)	I	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
	B. A. III (International Economics)	XI	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.

Month	Class	Paper No.	Units to be completed
November 2023	B.Com. I (Micro Economics)	I	University Exam
	B. A. II (Co-Operation)	III	University Exam
	B. A. III (Economics of Development-I)	X	University Exam
	B.COM. III (Co-Operation)	II	University Exam
	B. A. III (International Economics)	XI	University Exam

Month	Class	Paper No.	Units to be completed
December 2023	B.Com. I (Micro Economics)	II	1.1Meaningand characteristics 1.2 Equilibrium of firm in short run and long run. 1.3 Equilibrium of industry in short-run and long-run. 1.4 Measuring produce surplus under perfect competition.
	B. A. II (Co-Operation)	II	1.1: Primary Agricultural Credit Co-operative Societies – Functions and Importance. 1.2: District Central Co-operative Banks- Functions and Importance. 1.3: State Co-operative Bank – Functions and Importance. 1.4: Urban Co-operative Banks – Functions and Importance.
	B. A. III (Economics of Planning -I)	XV	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
	B.COM. III (Co-	II	1.1 Livestock: Concept, present status, importance and problems.



	Operation)		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.
	B. A. III (International Economics)	XVI	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

Month	Class	Paper No.	Units to be completed
January 2024	B.Com. I (Micro Economics)	II	2.1 Meaning and Characteristics 2.2 Price determination under monopoly. 2.3 Concept and degree of price discrimination. 2.4 Measurement of monopoly power
	B. A. II (Co-Operation)	II	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
	B. A. III (Economics of Planning-I)	XV	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
	B.COM. III (Co-Operation)	I	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
	B. A. III (International Economics)	XVI	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.

Month	Class	Paper No.	Units to be completed
February 2024	B.Com. I (Micro Economics)	II	3.1 Monopolistic competition – Meaning and Characteristics 3.2 Equilibrium of firm in short run and long-run. 3.3 Oligopoly market- Meaning and Characteristics. 3.4 Duopoly Market- Meaning and Characteristics
	B. A. II (Co-Operation)	II	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
	B. A. III (Economics of Planning-I)	XV	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
	B.COM. III (Co-Operation)	II	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)
	B. A. III (International Economics)	XVI	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

Month	Class	Paper No.	Units to be completed
March 2024	B.Com. I (Micro Economics)	I	4.1 Rent-Meaning-Ricardo's & Modern theory of rent 4.2 Wage-Meaning-Money and Real wage. Wage differentials. 4.3 Interest Meaning Liquidity preference theory of interest 4.4 Profit – Meaning. Gross and Net profit – Risks – Bearing and Uncertainty theories of profit.
	B. A. II (Co-Operation)	II	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: Ministry Of Cooperation in India- Role And

			Importance
	B. A. III (Economics of Planning I)	XV	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
	B.COM. III (Co-Operation)	II	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.
	B. A. III (International Economics)	XVI	4.1 IMF: Objectives and Functions 4.2 IBRD: Objectives, Functions 4.3 ADB: Objectives, Functions 4.4 WTO: Objectives, Functions

Month	Class	Paper No.	Units to be completed
April 2024	B.Com. I (Micro Economics)	II	University Exam
	B. A. II (Co-Operation)	II	University Exam
	B. A. III (Economics of Development-I)	XV	University Exam
	B.COM. III (Co-Operation)	II	University Exam
	B. A. III (International Economics)	XVI	University Exam

Month	Class	Paper No.	Units to be completed
May-2024	B.Com. I (Micro Economics)	I	Paper Assessment
	B. A. II (Co-Operation)	V	Paper Assessment

	B. A. III (Economics of Development-I)	**XV**	University Exam
	B.COM. III (Co-Operation)	**II**	University Exam
	B. A. III (International Economics)	**XVI**	University Exam

(Mr. R.R.Vasave)

HEAD,
Department of Economics
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal, Dist: Sangli

ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Dr. Vinod Dilip Kamble
Assistant Professor,
Dept. of Psychology

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From 3rd July Term Start July 2023	**B. A. I (Understanding Psychology)**	**I**	Module I: Introduction 1.1) Defining Psychology 1.2) Today's Perspectives. a) Psychodynamic Perspective b) Behavioural Perspective
	B. A. II (Psychology for Living)	**III**	Module I: Towards Better Health 1.1 Body Image 1.2 Health and the Mind-Body Relationship 1.3 Promoting Wellness
	B. A. II (Logic)	**I**	Unit: 3) Kinds of Inference – 3.1 Immediate and Mediate Inference. 3.2 Types of Immediate Inference.
	B. A. III (Introduction to Psycho-pathology)	**IX**	Module 1: Psychopathology: An Overview 1.1 Indicators of Abnormality 1.2 The DSM – 5 and the Definition of Mental Disorder 1.3 Classification and Diagnosis 1.4 How common are Mental Disorders
	B. A. III (Practical)	**XI**	Introduction to Experiments, 1. Reaction Time, 2. Serial Position Effect in Learning - Demonstration

Month	Class	Paper No.	Units to be completed
August 2023	**B. A. I (Understanding Psychology)**	**I**	1.2 c) Cognitive Perspective d) Humanistic Perspective 1.3) Conducting Psychological Research a) Naturalistic Observation b) Survey Research c) Experimental Research
	B. A. II (Psychology for Living)	**III**	Module II: Stress 2.1 Understanding Stress 2.2 Reactions to Stress 2.3 Managing Stress
	B. A. II (Logic)	**I**	3.3 Square of Opposition 3.4 Nyaya concept of Inference.
	B. A. III (Introduction to Psycho-pathology)	**IX**	Module 2: Perspectives of Psychopathology 2.1 The Biological Perspective 2.2 The Freud's Psychoanalytic Perspective 2.3 The Behavioural Perspective 2.4 The Social Perspective
	B. A. III (Practical)	**XI**	3. Recall and Recognition, 4. Transfer of Training - Demonstration

Month	Class	Paper No.	Units to be completed
September 2023	B. A. I (Understanding Psychology)	I	Module III: Motivation 3.1) Explaining Motivation a) Drive Reduction Approach b) Arousal Approach c) Incentive Approach d) Cognitive Approach 3.2) Maslow's Hierarchy
	B. A. II (Psychology for Living)	III	Module III: Understanding Mental Disorders 3.1 Psychological Disorders 3.2 Anxiety disorders 3.3 Mood Disorders
	B. A. II (Logic)	I	Unit: 4) Mediate Inference – 4.1 Categorical Syllogism: Definition, Nature and Rules. 4.2 Figure and Moods
	B. A. III (Introduction to Psycho-pathology)	IX	Module 3: Anxiety and Obsessive-Compulsive Disorder 3.1 Anxiety Disorders 3.2 Obsessive-Compulsive Related Disorder
	B. A. III (Practical)	XI	5. Habit Interference, 6. Maze Learning - Demonstration

Month	Class	Paper No.	Units to be completed
October 2023	B. A. I (Basic Principles of Psychology)	I	3.3) Human Needs and Motivation a) The motivation behind hunger and eating b) The need of Achievement c) The need of Affiliation d) The need of Power
	B. A. II (Psychology for Living)	III	Module 4: If You go for help 4.1 Psychotherapy 4.2 Insight Therapies 4.3 Cognitive and Behavioural Therapies
	B. A. II (Logic)	I	4.3 Mixed Hypothetical Syllogism: Definition, Nature and Rules 4.4 Kinds of fallacies
	B. A. III (Introduction to Psycho-pathology)	IX	Module 4: Mood Disorders and Suicide 4.1 Unipolar Depressive Disorders 4.2 Bipolar and Related Disorders 4.3 Treatments of Mood Disorders 4.4 Suicide, Students Seminar
	B. A. III (Practical)	XI	Journal Writing, Revision, Students Seminar

November - 2023	University Examination

Month	Class	Paper No.	Units to be completed
December 2023	B. A. I (Basic Principles of Psychology)	II	Module II: Memory 2.1) The Foundations of Memory a) Sensory memory b) Short term memory c) Working memory
	B. A. II (Applied Psychology)	VI	Module I: Taking Charge 1.1 Personal Control 1.2 Decision Making 1.3 Decisions and Personal Growth
	B. A. II (Logic)	II	Unit: 3) Hypothesis 3.1 Definition, Nature and Importance of Hypothesis 3.2 Conditions of valid Hypothesis
	B. A. III (Psychology of Organizational Behaviour)	XV	Module 1: Organizational Behavior (OB) 1.1 Importance of Interpersonal Skills 1.2 What managers do? 1.3 Challenges and opportunities for OB
	B. A. III (Practical)	XVI	1. Attitude Scale, 2. Introvesion-Extroversion Inventory - Demonstration

Month	Class	Paper No.	Units to be completed
January 2024	B. A. I (Basic Principles of Psychology)	II	2.2) Long Term Memory a) Long term memory modules b) Semantic networks c) The neuroscience of memory 2.3) Autobiographical memory
	B. A. II (Applied Psychology)	VI	Module II: At Work and Play 2.1 At Work 2.2 At Play
	B. A. II (Logic)	II	3.3 Verification and Proof of Hypothesis 3.4 Importance of Hypothesis in research
	B. A. III (Psychology of Organizational Behaviour)	XV	Module 2: The Individual 2.1 Personality 2.2 Attitudes and Job Satisfaction 2.3 Leadership
	B. A. III (Practical)	XVI	3. Self Concept Test, 4. Test of Intelligence - Demonstration

Month	Class	Paper No.	Units to be completed
February 2024	B. A. I (Basic Principles of Psychology)	II	Module III: Personality 3.1) Definitions of Personality 3.2) Psychodynamic Approaches to Personality a) Freud's Psychoanalytic Theory
	B. A. II (Applied Psychology)	VI	Module III: Making and keeping friends 3.1 Meeting People 3.2 Keeping Friends 3.3 When It's Hard to Make Friends?
	B. A. II (Logic)	II	Unit: 4) Set Theory 4.1 Nature and Definition of Set Theory 4.2 Types of Set (Equal Non equal and Null Set)

	B. A. III (Psychology of Organizational Behaviour)	**XV**	Module 3: Foundations of Group Behaviour 3.1 Defining and classifying groups 3.2 Stages of Group Development: Five-Stage model 3.3 Group properties 3.4 Group Decision Making
	B. A. III (Practical)	**XVI**	5. Locus of Control Scale, 6. Superstition Scale - Demonstration

Month	Class	Paper No.	Units to be completed
March 2024	**B. A. I (Basic Principles of Psychology)**	**II**	3.3) Trait Approaches a) Allport's trait theory b) Cattell and Eysenck c) Big five personality traits 3.4) Assesing Personality a) Self report measures of personality b) Projective methods c) Behavioural assessment
	B. A. II (Applied Psychology)	**VI**	Module IV: Love and Commitment 4.1 Love is a Many Splendored (and Defined) Thing 4.2 Finding Love 4.3 Marriage and Other Committed Relationships 4.4 Adjusting to Intimate Relationships
	B. A. II (Logic)	**II**	4.3 Operation of Set (union, intersection) 4.4 Solve examples by using the rules of Set
	B. A. III (Psychology of Organizational Behaviour)	**XV**	Module 4: Organizational Change 4.1 Forces for Change and planned change 4.2 Resistance to change 4.3 Approaches to manage organizational change 4.4 Creating a culture for change Project Writing
	B. A. III (Practical)	**XVI**	Journal Writing, Revision, Project Writing

April - 2024	University Examination

Department Of Psychology

ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Mr.S.N.Phakade
Assistant Professor(C.H.B),
Department of Political Science

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
July 2023	B. A. I (Introduction to Political Science)	I	**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
	B. A. II (Political Process in India)	III	**Unit 1 :Indian Federalism** (a) Nature & Characteristics of Indian Federalism (b) Centre-State Relations: Legislative, Administrative, Financial (c) Changing nature of Federal System
	B. A. III (Political Theory)	VII	**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.
	B. A. III (International Politics)	IX	**Unit – 1. Nature of International Politics** a) Meaning, Nature and Scope of International Politics b) Theories of International Politics: Idealist and Realist.

Month	Class	Paper No.	Units to be completed
August 2023	B. A. I (Introduction to Political Science)	I	**Topic III-State and Democracy** c) Democracy: Importance and Challenges before Democracy
	B. A. II (Political Process in India)	III	**Unit II : Elections and Electoral Process** (a) Election Commission of India: Composition and Functions (b) Electoral Reforms (c) Electoral Process, Representation and Social

			Determinants of Voting Behaviour.
	B. A. III (International Politics)	IX	**Unit 2: National Power :** a)Meaning of National Power b) Elements of National Power.

Month	Class	Paper No.	Units to be completed
September 2023	B. A. I (Introduction to Political Science)	I	**Topic IV- Key Concepts of Political Science** a) Rights: Meaning, and Types b) Liberty: Meaning, and Types
	B. A. II (Political Process in India)	III	**Unit 4: Issues in Indian Politics** a) Caste and Politics of Identity b) Religion and Politics of Communalism
	B. A. III (Political Theory)	VII	**Unit 3: Behaviouralism & Post Behaviouralism** a) Behavioral Approach—Meaning, Characteristics & Evaluation b) Post Behavioral Approach –Meaning, Characteristics & Evaluation
	B. A. III (International Politics)	IX	**Unit III : Political Parties and Party System** (a) Nature and Changing Pattern of Party System (b) Selected National Political Parties: Indian National Congress, Bhartiya Janata Party, Communist Parties (CPM, CPI), Bahujan Samaj Party (BSP) Aam Adami Party (AAP) (c) Rise and Role of Regional Parties

Month	Class	Paper No.	Units to be completed
October 2023	B. A. I (Introduction to Political Science)	I	**Topic IV- Key Concepts of Political Science** c) Equality: Meaning, and Types d) Justice: Meaning, and Types
	B. A. II (Political Process in India)	III	**Unit 4: Issues in Indian Politics** c) Regionalism & Challenges before Development
	B. A. III	IX	**Unit 4: Concepts in Political Theory**

	(International Politics)		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
	B. A. III (International Politics)	**IX**	**Unit IV :Challenges before India Democracy** (a) Communalism (b) Regionalism (c) Language

November-2023	University Examination

Month	Class	Paper No.	Units to be completed
December 2023	**B. A. I (Indian Constitution)**	**II**	**Topic III- Legislature and Executive in Indian Constitution** a) Parliament
	B.A.II (Local Self Government in Maharashtra)	**V**	**Unit1:Historical Background of Local- Self Government** a) Community Development Program b) Balawantroy Mehata Committee c) Vasantrao Naik Committee and P. B. Patil Committee
	B.A.III (Modern Political Concepts)	**XII**	**Unit – 1. : Feminism** I. Meaning, Origin and Development of Feminism. II. Characteristic of Feminism III. Theories of Feminism
	B.A.III (Foreign Policy of India)	**XIV**	**Unit 1: Foreign Policy** a) Meaning and Objectives of Foreign Policy. b) Determinants and Basic Principles of Indian Foreign Policy

Month	Class	Paper No.	Units to be completed
January	**B. A. I**	**II**	**Topic III- Legislature and Executive in**

2023	(Indian Constitution)		**Indian Constitution** b) Prime Minister and his Cabinet c) President
	B.A.II (Local Self Government in Maharashtra)	**V**	**Unit2:Rural Local- Self Government and Recent Trends** a) Gram Panchayat b) Panchayat Samiti c) Zillah Parishad
	B.A.III (Modern Political Concepts)	**XII**	**Unit – 2. Multiculturalism** I. Meaning and Development of Multiculturalism II. Will Kymlicka's theory of Multiculturalism III. Nationalism and Multiculturalism
	B.A.III (Foreign Policy of India)	**XIV**	**Unit – 2. India and Global Powers** a) India – US Relations b) India – USSR and Russia Relations c) India – China Relations

Month	Class	Paper No.	Units to be completed
Feb 2024	**B. A. I (Indian Constitution)**	**II**	**Topic IV- Judiciary** a) Supreme Court: Composition, Powers and Functions
	B.A.II (Local Self Government in Maharashtra)	**V**	**Unit3:Urban Local- Self Government and Recent Trends** a) Municipal Council b) Municipal Corporation
	B.A.III (Modern Political Concepts)	**XII**	**Unit – 3. Environmentalism** I. Origin and Causes of Environmentalism II. Characteristics of Environmentalism III. International Efforts for protection of Environment IV. Global Warming
	B.A.III (Foreign Policy of India)	**XIV**	**Unit – 2. India and Global Powers** a) India – US Relations b) India – USSR and Russia Relations c) India – China Relations

Month	Class	Paper No.	Units to be completed
March 2024	B. A. I (Indian Constitution)	II	**Topic IV- Judiciary** b) Judicial Review
	B.A.II (Local Self Government in Maharashtra)	V	**Unit4:Constitutional Amendments** a) 73rd Constitutional Amendment Importance & Features b) 74th Constitutional Amendment
	B.A.III (Modern Political Concepts)	XII	**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
	B.A.III (Foreign Policy of India)	XIV	**Unit – 3. India's Relations with her Neighbors** a)India – Pakistan b)India – Bangladesh c)India – Shrilanka
Month	**Class**	**Paper No.**	**Units to be completed**
April 2024	B. A. I (Indian Constitution)	II	**Topic IV- Judiciary** b) Judicial Review
	B.A.II (Local Self Government in Maharashtra)	V	**Unit4:Constitutional Amendments** a) 73rd Constitutional Amendment Importance & Features b) 74th Constitutional Amendment
	B.A.III (Modern Political Concepts)	XII	**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
	B.A.III (Foreign Policy of India)	XIV	**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 Eraa)India – Pakistan b)India – Bangladesh c)India – Shrilanka

Month	Class	Paper No.	Units to be completed
May 2024			University Examination
			University Examination
			University Examination

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Maha Vidyalaya, Miraj Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya

Kavathe Mahankal

DEPARTMENT OF POLITICAL SCIENCE

Annual Teaching Plan

(Academic Year : 2023-24)

Mr.Nishikant S. Waghmare
Assistant Professor,
Department of Political Science

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From 03th July Term Start July 2023	B. A. I (Introduction to Political Science)	I	**Topic I- Introduction to Political Science** a) Meaning, Definition, Nature, and Scope
	B. A. II (Political Process in India)	III	**Unit 1: Indian Federalism** a) Nature & Characteristics of Indian Federalism b) Centre-State Relations : Legislative, Administrative, Financial c) Changing nature of federal System.
	B. A. III (Public Administration)	VIII	**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
	B. A. III (Western Political Thought – I)	XI	**Unit – 2. Aristotle**

Month	Class	Paper No.	Units to be completed
July-August 2023	B. A. I (Introduction to Political Science)	I	**Topic I- Introduction to Political Science** b) Difference Between Political Science and Politics c) Importance of Political Science
	B. A. II (Political	III	**Unit II : Elections and Electoral Process** (a) Election Commission of India: Composition and

	Process in India)		Functions (b) Electoral Reforms (c) Electoral Process, Representation and Social Determinants of Voting Behaviour.
	B. A. III (Public Administration)	**VIII**	**Unit 2: Organization** a) Meaning and Bases of Organization b) Principles of Organization c) Units of Organization
	B. A. III (Western Political Thought – I)	**XI**	**Unit – 2. Aristotle**

Month	Class	Paper No.	Units to be completed
August-September 2023	**B. A. I (Introduction to Political Science)**	**I**	**Topic II- Introduction to Sub-disciplines of Political Science** a) Political Theory: Meaning, Nature and Scope b) Political Process: Meaning, Nature and Scope
	B. A. II (Political Process in India)	**III**	**Unit III : Political Parties and Party System** (a) Nature and Changing Pattern of Party System (b) Selected National Political Parties: Indian National Congress, Bhartiya Janata Party, Communist Parties (CPM, CPI), Bahujan Samaj Party (BSP) Aam Adami Party (AAP) (c) Rise and Role of Regional Parties
	B. A. III (Public Administration)	**VIII**	**Unit 3: Financial Administration:** a) Meaning and definition of Budget b) Budgetary Process in India c) Parliamentary Control of the Budget in India
	B. A. III (Western Political Thought – I)	**XI**	**Unit – 2. Aristotle**

Month	Class	Paper No.	Units to be completed
September-October-2023	**B. A. I (Introduction to Political Science)**	**I**	**Topic II- Introduction to Sub-disciplines of Political Science** c) Public Administration: Meaning, Nature and Scope d) International Politics: Meaning, Nature

			and Scope
	B. A. II (Political Process in India)	III	**Unit IV :Challenges before India Democracy** (a) Communalism (b) Regionalism (c) Language
	B. A. III (Public Administration)	VIII	**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.
	B. A. III (Western Political Thought – I)	XI	**Unit – 2. Aristotle**

October- November 2023	University Examination

Month	Class	Paper No.	Units to be completed
November-December 2023	**B. A. I (Indian Constitution)**	**II**	**Topic I- Introduction to Indian Constitution** a) Historical Background of Indian Constitution (Acts of 1909,1919,1935)
	B.A.II (Local Self Government in Maharashtra)	**V**	**Unit1:Historical Background of Local- Self Government** a) Community Development Program b) Balawantroy Mehata Committee c) Vasantrao Naik Committee and P. B. Patil Committee
	B.A.III (Politics and Movements in Maharashtra)	**XIII**	**Unit -1 Samyukta Maharashtra** a. Movement of Samyukta Maharashtra and formation of Maharashtra State b. Developments in Politics of Maharashtra after1960 c. The Politics of Regional Imbalance – Cooperative Sector and Economy
	B.A.III (Western Political Thought II)	**XVI**	**Unit – 2 Karl Marx**

Month	Class	Paper No.	Units to be completed
December-January 2024	B. A. I (Indian Constitution)	II	**Topic II- Philosophy of Indian Constitution** a) Preamble b) Fundamental Rights
	B.A.II (Local Self Government in Maharashtra)	V	**Unit2:Rural Local- Self Government and Recent Trends** a) Gram Panchayat b) Panchayat Samiti c) Zillah Parishad
	B.A.III (Politics and Movements in Maharashtra)	XIII	**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.
	B.A.III (Western Political Thought II)	XVI	**Unit – 2 Karl Marx**

Month	Class	Paper No.	Units to be completed
January-February 2024	B. A. I (Indian Constitution)	II	**Topic II- Philosophy of Indian Constitution** a) Preamble b) Fundamental Rights
	B.A.II (Local Self Government in Maharashtra)	V	**Unit3:Urban Local- Self Government and Recent Trends** a) Municipal Council b) Municipal Corporation
	B.A.III (Politics and Movements in Maharashtra)	XIII	**Unit – 3. Politics of Maharashtra** a. Major Political Parties in Maharashtra b. Regional Parties in Maharashtra c. Coalition Politics
	B.A.III (Western Political Thought II)	XVI	**Unit – 2 Karl Marx**

Month	Class	Paper No.	Units to be completed
	B. A. I (Indian	II	**Topic II- Philosophy of Indian Constitution** c) Directive Principles of State Policy and

February-March 2024	Constitution)		Fundamental Duties
	B.A.II (Local Self Government in Maharashtra)	V	**Unit4:Constitutional Amendments** a) 73rd Constitutional Amendment Importance & Features b) 74th Constitutional Amendment Importance & Features
	B.A.III (Politics and Movements in Maharashtra)	XIII	**Unit – 4. Political and Social Movements in Maharashtra** a. Peasant Movements b. Dalit Movements c. Superstition Eradication Movements d.Student Movements
	B.A.III (Politics and Movements in Maharashtra)	XIII	**Unit – 4. Political and Social Movements in Maharashtra** a. Peasant Movements b. Dalit Movements c. Superstition Eradication Movements d.Student Movements
	B.A.III (Western Political Thought II)	XVI	**Unit – 2 Karl Marx**

Month	Class	Paper No.	Units to be completed
April-May 2024			University Examination
			University Examination
			University Examination

Mr. Waghmare N. S.
Teacher

Prof. (Dr.) M. K. Patil
Principal
PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kalamkal, Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya

Kavathe Mahankal

DEPARTMENT OF POLITICAL SCIENCE

Annual Teaching Plan

(Academic Year : 2023-24)

Mr. Narale H. S.
Assistant Professor,
Department of Political Science

Class: B. A. Part- II & III

Month	Class	Paper No.	Units to be completed
From 1st August Term Start August 2022	B. A. II (Public Administration)	CGE - I	**Unit 1: Public Administration** a) Meaning, Definition and Nature b) Scope and Importance
	B.A.II (Indian Political Thought Part – I)	IV	**Unit 1: Kautilya** a) Nature of State - Saptang Theory
	B.A.III (International Politics)	IX	**Unit – 1. Nature of International Politics** a) Meaning, Nature and Scope of International Politics b) Theories of International Politics: Idealist and Realist.
	B.A.III (Western Political Thought – I)	XI	**Unit – 3. Machiavelli**

Month	Class	Paper No.	Units to be completed
Septembar-October 2022	B. A. II (Public Administration)	CGE -I	**Unit 1: Public Administration** c) Public Administration and Private Administration
	B.A.II (Indian	IV	**Unit 1: Kautilya** b) King and His Administration,

	Political Thought Part – I)		Council of Ministers c) Mandal Theory & Shadgunya Theory
	B.A.III (International Politics)	**IX**	**Unit – 2. National Power :** a)Meaning of National Power b) Elements of National Power.
	B.A.III (Western Political Thought – I)	**XI**	**Unit – 3. Machiavelli**

Month	Class	Paper No.	Units to be completed
October-November 2022	**B. A. II (Public Administration)**	**CGE -I**	**Unit 2: Organization** a) Meaning, Definition and Bases
	B.A.II (Indian Political Thought Part – I)	**IV**	**Unit 2: Mahatma Phule** a) Theory of State – Concept of Balirajya b) Religion – Critique on Brahmanism
	B.A.III (International Politics)	**IX**	**Unit – 3. Diplomacy :** a)Meaning of Diplomacy, b)Kinds and Functions of Diplomacy
	B.A.III (Western Political Thought – I)	**XI**	**Unit – 3. Machiavelli**

Month	Class	Paper No.	Units to be completed
November-December 2022	**B. A. II (Public Administration)**	**CGE - I**	**Unit 2: Organization** b) Principles : Hierarchy, Coordination, Span of Control, Centralization and Decentralization c) Units: Line and Staff
	B.A.II (Indian Political	**IV**	**Unit 2: Mahatma Phule** c) Satyashodhak Samaj & it's Revolutionary

	Thought Part – I)		Thought
	B.A.III (International Politics)	**IX**	**Unit – 4. New World Order :** a) Post Cold-War International Order b) Regional Organizations: European Union, ASIAN c) Economic Organizations: WTO and BRICS
	B.A.III (Western Political Thought – I)	**XI**	**Unit – 3. Machiavelli**

December-January- 2023	University Examination

Month	**Class**	**Paper No.**	**Units to be completed**
January-February 2023	**B. A. II (Public Administration)**	**CGE - I**	**Unit 1: Personnel Administration** a) Meaning, Definitions and Importance b) Recruitment, Training and Promotion
	B.A.II (Indian Political Thought Part – II)	**VI**	**Unit 1: M. K. Gandhi** a) Satya, Ahimsa, Satyagraha b) Concept of Swaraj – Ramrajya & Trusteeship c) Theory of Gandhi's concept of Religion
	B.A.III (Foreign Policy of India)	**XIV**	**Unit 1: Foreign Policy** a) Meaning and Objectives of Foreign Policy. b) Determinants and Basic Principles of Indian Foreign Policy
	B.A.III (Western Political Thought- II)	**XVI**	**Unit 3 – Antonio Gramsci**

Month	**Class**	**Paper No.**	**Units to be completed**
	B. A. II (Public	**CGE - I**	**Unit 1: Personnel Administration** c) Political Neutrality of Civil Servants

February-March 2023	Administration)		
	B.A.II (Indian Political Thought Part – II)	**VI**	**Unit 1: M. K. Gandhi** a) Satya, Ahimsa, Satyagraha b) Concept of Swaraj – Ramrajya & Trusteeship c) Theory of Gandhi's concept of Religion
	B.A.III (Foreign Policy of India)	**XIV**	**Unit – 2. India and Global Powers** a) India – US Relations b) India – USSR and Russia Relations c) India – China Relations
	B.A.III (Western Political Thought- II)	**XVI**	**Unit 3 – Antonio Gramsci**

Month	Class	Paper No.	Units to be completed
March - April 2023	**B. A. II (Public Administration)**	**CGE - I**	**Unit 2: Financial Administration in India** a) Meaning, Definitions and Importance of Budget b) Preparation, Enactment and Execution of the Budget
	B.A.II (Indian Political Thought Part – II)	**VI**	**Unit 2: Jawaharlal Nehru** a) Democratic Socialism b) Composite Nationalism & Secularism c) Panchsheel & Non-Alignment
	B.A.III (Foreign Policy of India)	**XIV**	**Unit – 3. India's Relations with her Neighbors** a)India – Pakistan b)India – Bangladesh c)India – Shrilanka
	B.A.III (Western Political Thought- II)	**XVI**	**Unit 3 – Antonio Gramsci**

Month	Class	Paper No.	Units to be completed
	B. A. II (Public	**CGE - I**	**Unit 2: Financial Administration in India** c) Financial committees – Public Accounts

April-May 2023	Administration)		Committee, Estimates Committee, Public Undertakings Committee.
	B.A.II (Indian Political Thought Part – II)	VI	**Unit 2: Jawaharlal Nehru** a) Democratic Socialism b) Composite Nationalism & Secularism c) Panchsheel & Non-Alignment
	B.A.III (Foreign Policy of India)	XIV	**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
	B.A.III (Western Political Thought- II)	XVI	**Unit 3 – Antonio Gramsci**

Month	Class	Paper No.	Units to be completed
May-June 2023			University Examination
			University Examination
			University Examination

Mr. Narale H.S.
Teacher

P.V.P. MAHAVIDYALAYA • K. Mahankal, Dist. Sangli •

Prof. (Dr.) M. K. Patil
Principal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

ANNUAL TEACHING PLAN

(Academic Year: 2022-2023)

Mr.Arun Pandurang Bhosale, Associate Professor, Department of Physical Education

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From August – Oct. 2022	**B. A. I (Introduction of Physical Education & Sports)**	I	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
	B. A. II (Physical Education History)	III	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. Buddist Period. With reference to the following activities :Archery, Wrestling, Stick-fighting, Yogic exercises.
	B. A. III (Health Education)	VII	**Unit I) Health Education** a) Meaning, definitions of Health Education. b) Nature and scope of Health Education.
	B. A. III (ANATOMY AND PHYSIOLOGY)	X	**Unit I) Introduction:** a) Anatomy, Physiology -Meaning, definition and importance. b) The cell and its parts.
	B. A. III DIETETICS AND NUTRITION	XI	**Unit I) Diet components** Carbohydrates, Proteins, Fats, vitamins. Mineral Fibers and water (need & importance)
Oct.-Nov.2022	**B. A. I (Introduction of Physical Education & Sports)**	I	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
	B. A. II (Physical Education & Yoga Studies)	III	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
	B. A. III (Health Education)	VII	Unit II) Health care a) Personal Health 1) Factor's of Personal Health -I) Physical II) Mental 2) Factors influencing on Health I) Heredity II) environment II) Habits IV) Exercise
	B. A. III Anatomy And Physiology	X	**Unit-II) Skeletal and Muscular System** a) Types of Bones and names of various bones of the body. b) Various types of joints and major movements around them. c) Structural classification of skeletal muscle, structure and functions of skeletal muscle.

	B. A. III Dietetics And Nutrition	XI	Unit II) Balance Diet:- Meaning. Definition and sources.
Nov. - Dec. 2022	B. A. I (Introduction of Physical Education & Sports) Practical	I	I) Athletics 1. Sprint – 100 M a) The candidates running 100 Mtrs. 2. Shot-put - Performance, For Technique & Modern Style
			II) Indian Game : Kabaddi a) Fundamental skills b) Knowledge of rules and regulations
	B. A. II (Physical Education & Yoga Studies) Practical	III	Athletics a) Discus Throw , Performance , For Techniques & modern Styles
			b)Middle Distance Run, 800 M. Running, For Knowledge of Rules & Regulations
			Indian Game - Kho kho -Fundamental Skills, Knowledge of Rules & Regulations
			Indian Exercsise - A) Suryanamskar b) Yogasans- Padmasan, PadHastasan, Veerasan, Shawasan, Shalbhasan, Navkasan, Tadasan, Suptavajrasan.
			Gymnastics - Frrunt Roll, Backroll, Cartwheel
	B. A. III (Health Education)	VII	b) Social Health
			a) Communicable diseases Causes & Prevention (HIV /AIDS, Malaria, Dengue, Chikungunya, Swine Flu, Corona etc.)
			Unit III) Health of the Communit a) Health problems in family, Community, School and Colleges.
	B. A. III (Anatomy And Physiology)	X	Unit III) Respiratory System:
			a) The nose, pharynx, larynx, trachea, bronchioles, lungs - structure and functions.b) Vital capacity, Second wind.c) Effect of exercise on respiratory system
	B. A. III DIETETICS AND NUTRITION	XI	Unit III) Malnutrition
			a) Under weight-causes, sign and symptoms.
			b) Obesity - causes, types, Signs and symptoms.
	B. A. III (Practical)		Athletics - Tripple Jump, Jave line Throw, Different Style , Long Distance run 5000/3000 Meters Techniques & performance Badminton OR Table Tennice
Jan.- Feb.2023			University Examination
Feb.-May 2023	B. A. I (Introduction of Physical Education & Sports)	II	Unit 1 : 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 2 : 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 Tobaco. e) Walking- Meaning, Need and Importance
	B. A. II (History Physical Education)	V	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
	B. A. III Health		Unit I) Health Programme

	B. A. III Health Education Program	XII	a) Importance of exercises in health and fitness. b) Drugs, Alcohol and Tobacco-Adverse effect on performance.
	B. A. III Anatomy And Physiology Of Exercise	XV	Unit-I) Circulatory System: A) Blood - Its constituents and functions, Heart - its structure and function. B) Blood pressure, Pulse, Blood groups, Oxygen debt.
	B. A. III (Dietics and Hygiene)	XVI	Unit-I आहारापा परिणाम 1. नैसर्गिक आहार 2. भेसळयुक्त आहार
May -June 2023			University Examination

The Head
Department Of Physical Education
P.V.P.College,Kavathe Mahankal,
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ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Mr.Arun Pandurang Bhosale, Associate Professor, Department of Physical Education

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From July-August – 2023	B. A. I (Introduction of Physical Education & Sports)	I	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
	B. A. II (Physical Education History)	III	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. Buddist Period. With reference to the following activities :Archery, Wrestling, Stick-fighting, Yogic exercises.
	B. A. III (Health Education)	VII	**Unit I) Health Education**
			a) Meaning, definitions of Health Education.
			b) Nature and scope of Health Education.
	B. A. III (ANATOMY AND PHYSIOLOGY)	X	**Unit I) Introduction:**
			a) Anatomy, Physiology -Meaning, definition and importance.
			b) The cell and its parts.
	B. A. III DIETETICS AND NUTRITION	XI	**Unit I) Diet components**
			Carbohydrates, Proteins, Fats, vitamins. Mineral Fibers and water (need & importance)
August - Sept 2023	B. A. I (Introduction of Physical Education & Sports)	I	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
	B. A. II (Physical Education & Yoga Studies)	III	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
	B. A. III (Health Education)	VII	Unit II) Health care
			a) Personal Health
			1) Factor's of Personal Health -I) Physical II) Mental
			2) Factors influencing on Health I) Heredity II) environment II) Habits IV) Exercise
	B. A. III Anatomy And Physiology	X	**Unit-II) Skeletal and Muscular System**
			a) Types of Bones and names of various bones of the body.
			b) Various types of joints and major movements around them.
			c) Structural classification of skeletal muscle, structure and functions of skeletal muscle.

	B. A. III Dietetics And Nutrition	XI	**Unit II) Balance Diet:-** Meaning. Definition and sources.
Sept.- Oct 2023	B. A. I (Introduction of Physical Education & Sports) Practical	I	I) Athletics 1. Sprint – 100 M a) The candidates running 100 Mtrs. 2. Shot-put - Performance, For Technique & Modern Style
			II) Indian Game : Kabaddi a) Fundamental skills b) Knowledge of rules and regulations
	B. A. II (Physical Education & Yoga Studies) Practical	III	Athletics a) Discus Throw , Performance , For Techniques & modern Styles
			b)Middle Distance Run, 800 M. Running, For Knowledge of Rules & Regulations
			Indian Game - Kho kho -Fundamental Skills, Knowledge of Rules & Regulations
			Indian Exercsise - A) Suryanamskar b) Yogasans- Padmasan, PadHastasan, Veerasan, Shawasan, Shalbhasan, Navkasan, Tadasan, Suptavajrasan.
			Gymnastics - Frrunt Roll, Backroll, Cartwheel
	B. A. III (Health Education)	VII	b) Social Health
			a) Communicable diseases Causes & Prevention (HIV /AIDS, Malaria, Dengue, Chikungunya, Swine Flu, Corona etc.)
			Unit III) Health of the Communit a) Health problems in family, Community, School and Colleges.
	B. A. III (Anatomy And Physiology)	X	Unit III) Respiratory System:
			a) The nose, pharynx, larynx, trachea, bronchioles, lungs - structure and functions.b) Vital capacity, Second wind.c) Effect of exercise on respiratory system
	B. A. III DIETETICS AND NUTRITION	XI	Unit III) Malnutrition
			a) Under weight-causes, sign and symptoms.
			b) Obesity - causes, types, Signs and symptoms.
	B. A. III (Practical)		Athletics - Tripple Jump, Jave line Throw, Different Style , Long Distance run 5000/3000 Meters Techniques & performance Badminton OR Table Tennice
Nov.- Dec. 2023			**University Examination**
Jan. - Feb. 2024	B. A. I (Introduction of Physical Education & Sports)	II	Unit 1 : 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.
	B. A. II (History Physical Education)	V	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.
	B. A. III Health Education Program	XII	Unit I) Health Programme
			a) Importance of exercises in health and fitness.
	B. A. III Anatomy And Physiology Of Exercise	XV	Unit-I) Circulatory System:
			A) Blood - Its constituents and functions, Heart - its structure and function.
	B. A. III (Dietics and Hygiene)	XVI	Unit-I आहाराचा परिणाम 1. नैसर्गिक आहार 2. शेसळयुक्त आहार
			Unit 2 : A) Physical fitness and Health

Feb. - March 2024	B. A. I (Introduction of Physical Education & Sports)	II	a) Physical Fitness b) Factors of Phy. Fitness. c) Balance Diet. d) Bad Habits with Special reference to Phy. Fitnessess Alcohol and Tobaco. e) Walking- Meaning, Need and Importance
	B. A. II (History Physical Education)	V	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
	B. A. III Health Education Program	XII	Unit I) Health Programme
			b) Drugs, Alcohol and Tobacco-Adverse effect on performance.
	B. A. III Anatomy And Physiology Of Exercise	XV	Unit-I) Circulatory System:
			B) Blood pressure, Pulse, Blood groups, Oxygen debt.
	B. A. III (Dietics and Hygiene)	XVI	Unit-I आहारापा परिणाम 1. नैसर्गिक आहार 2. क्षेसळयुक्त आहार
March - April 2024		University Examination	

The Head
Department Of Physical Education
P.V.P.College,Kavathemahankal,
Dist - Sangli

ANNUAL TEACHING PLAN

(Academic Year: 2023-2024)

Mr.Machindra Namdev Mane, Assistant Professor(CHB), Department of Physical Education

Class: B. A. Part- I, II, & III

Month	Class	Paper No.	Units to be completed
From July-August – 2023	B. A. I (Introduction of Physical Education & Sports)	I	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
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	I a) Nature of administration and management –i) Meaning, Definition and Concept of Organization and Administration ii) Need and Importance of Organization and Administration
			b) Philosophy of organization and administration -i) Principles of Organization in Physical Education and Sports. ii) Principles of Administration in Physical Education and Sports.
	B. A. III (Recreation In Physical Education)	VIII	Unit I Introduction: a) Meaning .Concept, Definitions, of Rhythm b) Need & Importance of Rhythmic exercise.
	B. A. III Anatomy And Physiology	X	Unit I) Introduction:a) Anatomy, Physiology -Meaning. definition and importance.b) The cell and its parts.
	B. A. III (Dietetics And Nutrition)	XI	Unit I) Diet components Carbohydrates, Proteins, Fats, vitamins. Mineral Fibers and water (need & importance)
August - Sept 2023	B. A. I (Introduction of Physical Education & Sports)	I	Unit 1 :The meaning of Phy. Education and Sports B) Changing concept of Phy. Education c) Gymnastics d) Recreation e) Games & Sports f) Health & Phy. Education
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	II a) Competitions of Shivaji University –i) Inter-collegiate / Zonal Competitions of Shivaji University.ii) Inter-Zonal Competitions of Shivaji University.iii) Inter university sports competitions.
			B) Human resources for administration and management of competitions.i) Organization body.ii) Finance committee iii) Officials and committees.
	B. A. III (Recreation In Physical Education)	VIII	Unit II a) Meaning, Definitions & Concept of Recreation b) Aim & Objectives of recreation
	B. A. III Anatomy And Physiology	X	Unit-II) Skeletal and Muscular System
			a) Types of Bones and names of various bones of the body.
			b) Various types of joints and major movements around them.
			c) Structural classification of skeletal muscle, structure and functions of skeletal muscle.
	B. A. III(Dietetics And Nutrition)	XI	Unit II) Balance Diet:-Meaning. Definition and sources.
Sept.- Oct 2023	B. A. I (Introduction of Physical Education & Sports)	I	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
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	III a) Definition of Physical Education
			b) Benefits of a Quality Physical Education Program
			c) Essential Components of Physical Education
	B. A. III (Recreation In Physical Education)	VIII	Unit IIIRecent trends in recreation a)Hiking b) Trekking c) Sports camps and Competitions d) Aerobics and Zumba
	B. A. III Anatomy And Physiology	X	Unit III) Respiratory System: a) The nose, pharynx, larynx, trachea, bronchioles, lungs - structure and functions.
	B. A. III (Dietetics And Nutrition)	XI	UnitIII) Malnutrition a) Under weight-causes, sign and symptoms.

	B. A. III (Practical)		Athletics - Tripple Jump, Jave line Throw, Different Style , Long Distance run 5000/3000 Meters Techniques & performance Badminton OR Table Tennice
Oct.- Nov. 2023	**B. A. I (Introduction of Physical Education & Sports) Practical**	I	I) Athletics 1. Sprint – 100 M a) The candidates running 100 Mtrs. 2. Shot-put - Performance, For Technique & Modern Style
			II) Indian Game : Kabaddi a) Fundamental skills b) Knowledge of rules and regulations
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	Athletics a) Discus Throw , Performance , For Techniques & modern Styles b)Middle Distance Run, 800 M. Running, For Knowledge of Rules & Regulations
			Indian Game - Kho kho -Fundamental Skills, Knowledge of Rules & Regulations
			Indian Exerscise - A) Suryanamskar b) Yogasans- Padmasan, PadHastasan, Veerasan, Shawasan, Shalbhasan, Navkasan, Tadasan, Suptavajrasan.
			Gymnastics - Frrunt Roll, Backroll, Cartwheel
	B. A. III Anatomy And Physiology	X	b) Vital capacity, Second wind.c) Effect of exercise on respiratory system
	B. A. III (Dietetics And Nutrition)	XI	b) Obesity - causes, types, Signs and symptoms.
	B. A. III (Practical)		First Aid 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 F) Bandage, Meaning, Types, Way of appling sling, simple drossing , Recreational Game
Nov.- Dec. 2023			**University Examination**
Dec- Jan.2024	**B. A. I (Introduction of Physical Education & Sports)**	II	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.
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	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
	B. A. III (Research In Physical Education)	XIII	Unit I) Research – Concept, Meaning and Definition
	B. A. III Anatomy And Physiology Of Exercise)	XV	Unit-I) CirculatorySystem:
			A) Blood - Its constituents and functions, Heart - its structure and function.
			B) Blood pressure, Pulse, Blood groups, Oxygen debt.
	B. A. III (Dietics and Hygiene)	XVI	Unit I)Food sources and the their effect
			a) Natural foodb) Impure foodc) Processed foodd) Stimulants
	B. A. I (Introduction of		Unit 4 : A) Physical fitness and Health
			a) Physical Fitness b) Factors of Phy. Fitness.

Jan- Feb. 2024	Physical Education & Sports)	II	c) Balance Diet. d) Bad Habits with Special reference to Phy. Fitnessess Alcohol and Tobacco. e) Walking- Meaning, Need and Importance
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	II Play ground Standards and Facilities
			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. A. III (Research In Physical Education)	XIII	Unit II)Types of research
	B. A. III Anatomy And Physiology Of Exercise)	XV	Unit-II) DigestiveSystem:
			A) Organ of digestive system - Mouth, teeth, salivary glands, pharynx, oesphages, stomach, small and large intestine, pancreas, liver, structure and function - in brief.
	B. A. III (Dietics and Hygiene)	XVI	Unit II) Athlete Diet Meaning .Need and importance.
Feb. - March 2024	B. A. I (Introduction of Physical Education & Sports) Practical	II	B) Play – a) Meaning, Definitions, Concepts b) Work and Play c) Theories of play i) surplus energy ii) Anticipatory Theory iii) Recapulatory Theory d) Importance of Play.
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	III Sport Equipments
			a) Policies of purchases of Sports Equipments.
			b) Care and Maintenance of Sports Equip
	B. A. III (Research In Physical Education)	XIII	Unit III) Research Process, Stages in research process
	B. A. III Anatomy And Physiology Of Exercise)	XV	B) Excretory System: Kidney and skin - it's Structure and function
	B. A. III (Dietics and Hygiene)	XVI	Unit III) Immunity a) Personal hygiene - desirable hygiene habits
	B. A. III (Practical)		Athletics – 110 Meters Hurdles (MEN),
			100 Meters Hurdles (WOMEN), Relay (4 X 100 Meters)
March- April 2024	B. A. I (Introduction of Physical Education & Sports) Practical	II	III) Ball Game : Volley ball a) Fundamental skills b) Knowledge of rules and regulations
			IV) Indian Exercises : A. Suryanamaskar B. Asnas Record Book
	B. A. II (Organization And Administration In Physical Education And Sports.)	VI	Athletics A) High Jump – Performance, For Techniques & modern Style B) Middle Distance Running 1500 M. Running, For Knowledge of Rules & Regulations
			2) Ball Game - Hand Ball/ Basket Ball.(Fundamental Skills, Knowledge of Rules & Regulations) 3) Ground Marking - Kho-kho/ Hand Ball/ Basket Ball (Any One) 4) Record Book
	B. A. III (Research In Physical Education)	XIII	Unit III) Research Process, Stages in research process
	B. A. III Anatomy And Physiology Of Exercise)	XV	Unit-III) Nervous System: Structure of brain and spinal cord, Reflex action..
	B. A. III (Dietics and Hygiene)	XVI	b) School Health programme – service, supervision.
	B. A. III (Practical)		Marking & Track ,Record Book/Project, Educational Tour and Report
April- May 2024		University Examination	

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Annual Teaching Plan for Academic Year-2023-24

B. Com Part III/Semester V & VI

Subject – business regulatory framework

Month & Year	Topic / Unit	Sub - Unit Planned
July 2023	**Sem-I, Unit-IIaw of contract 1872**	definition of business law and its sources definition of contract kinds of contract
Aug 2023	**Unit-I labour laws**	employee provident fund act employee State insurance act payment of gratuity amendment
sept 2023	**Unit-III sale of goods act goods and service act**	Salem good site and goods and service tax
oct 2023	**Unit-IV Indian partnership act and limited liability partnership act**	Indian partnership actact1932 limited liability partnership act 2008
Dec 2024	**Unit-I company act 2013**	meaning pictures and types of company process of incorporation of company
jan 2024	**I, Unit-I company act 2013**	rights of shareholders winding up of company
Feb 2024	**Unit-II SEBI act consumer protection act and competition act**	meaning importance and roll of des act
March 2024	**Unit-IIIbusiness transaction and cyber laws**	e-commerce digital signature cyber law and offence
April 2024	**Unit-IV negotiable instrument amendment**	meaning and feature of negotiable instrument

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Subject – Money and Financial System B.Com II Paper I-II

Month & Year	Topic / Unit	Sub - Unit Planned
July 2023	Introduction to Money 1.1 15	Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Crypto Currency, Digital Rupee 1.3 Approaches to the Measurement of Money supply; RBI's Measures of Money Supply 1.4 Factors affecting Money Supply
Aug 2023	Unit 2 Financial System	2.1 Structure and Importance of Financial System 2.2 Features and structure of Money Market in India 2.3 Features and structure of Capital Market in India 2.4 Important Reforms in Indian Money and Capital
sept 2023	Unit 3 Introduction to Banking	3.1Meaning and Functions of Commercial Banks 3.2Types and Features of Banks - Commercial, Cooperative, Public and Private, Foreign. 3.3Payment Banks, Small Finance Banks 3.4 Process of Credit Creation and its limitation
oct 2023	Unit 4 Banking Business and Practices	4.1 Meaning, Types and Features of Bank Deposits 4.2 Meaning, Types and Features of Bank Loans 4.3 Sources of Funds and Income for Banks 4.4 Changing nature of Banking Business
Dec 2023	Unit 1 E Banking Services	1.1 Internet Banking: Meaning, Features and Services 1.2 Credit and Debit Card : Features, Importance &Precautions 1.3 NEFT, RTGS, IMPS, UPI & Cheque Truncation System 1.4 Mobile Banking: Meaning, Features and

		Services RBI's Autonomy & Section
jan 2024	Unit 2 Recent Developments in Indian Financial System	2.1 Micro Finance Institutions: Functions and Importance 2.2 Licensing and functioning of Payment Banks and Small Finance Banks 2.3 NBFCs: Meaning, Features and Types 2.4 Mutual Funds
Feb 2024	Unit 3 Reserve Bank of India	3.1 Organizational Structure and Functions of RBI 3.2 Meaning and Objectives Monetary Policy 3.3 Instruments of Monetary Policy 3.4 Monetary Policy Committee; RBI's Autonomy & Section
March 2024	Unit 4 All India Financial Institutes and Issues in Indian Banking	4.1 Administrative Structure and Functions of NABARD and SIDBI 4.2 Administrative Structure and Functions of NHB and EXIM Bank
April 2024		4.3 Meaning, Causes and Remedies for NPA, Prompt Correctives Action, Asset Reconstruction Companies 4.4 Consolidation in Indian Banking – Meaning and Forms

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Shikshan Prasarak Santha's
Padmabhushan Vasantraodada Patil Mahavidyalaya
Teaching Plan 2023-~~2024~~ 2024
Class: B. Com. Part- I, II, & III

Mrs. Pooja R Mali

Month	Class	Paper No.	Units to be completed
July 2023	B. Com. I (Principles of Marketing)	I	**Unit No. I Introduction to the Marketing** 1. Meaning and Definition of Marketing 2. concepts 3. branches objective advantages 4. conventions 5. Accounting standards.
	B. Com. II (Corporate Accounting)	I	**Unit No- I** Issue of Bonus Shares, Rights Shares and Sweat Equity 1.1Issue of Bonus Shares, 1.2 Rights Shares 1.3 Sweat Equity
	B. Com. III (Advanced accounting)	I	**Unit No.1 Nature and Scope of Audit** 1.1 Audit meaning , nature 1.2 scope of audit 1.3 Objective of audit 1.4 Difference b/w Audit and Investigation
	B. Com. III (Advanced Costing)	I	**Unit No. I Basic concepts of Costing** 1.1Meaning – Concept of Costing. Cost accounting, cost accountancy, 1.2 Nature and scope 1.3 Objective and Importance of costing 1.4 Diff b/w Cost , Management and Financial accounting.
	B. Com. III (Modern Management Practices)	I	**Unit – 1 Contribution to Modern Management Practice** 1.1 Concept of Modern Management 1.2 Contribution of Vijay Govindarajan: Three Box Solution and Reverse Innovation 1.3 Contribution of C.K. Pralhad : The Fortune at the Bottom of the Pyramid. 1.4 Michael Porter : competitive advantage.
August 2023	B. Com. I (Principles of Marketing)	I	**Unit- 2** 2.1 Consumer Behaviour 2.2 Market Selection
	B. Com. II (Corporate Accounting)	I	**Unit -2: Issue of Debentures** 2.1 Issue of Debentures, Interest on Debentures and 2.2 Amortisation of Discount and loss on Issue of Debentures. 2.3 Redemption of Debentures (Sinking Fund Method only) (20 Periods)
	B. Com. III	II	**Unit-2-Audit of specific items of financial statement**

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	(Advanced accounting Paper II)		2.1Audit of sales, audit of interest , income, audit of purchase etc. 2.2 Depreciation, rent, repairs, insurance, Travelling expenses etc. 2.3 Audit of share capital , Reserves & surplus, Trade payables, current liabilities 2.4 Land, building, plant and machinery, goodwill, cash, current asset, inventories, contingent liabilities.
	B. Com. III (Advanced Costing paper - I)	II	**Unit-2 Elements of Cost** 2.1 Material cost, Labour cost, Overhead 2.2 Classification of Cost, cost centre and cost unit 2.3 Tender and Quotation 2.4 Preparation of Cost Sheet
	B. Com. III (Modern Management Practices)	I	**Unit-2. Emotional and Social Intelligence in Management** 2.1 Emotional Intelligence: Concept, Components, Importance of emotional intelligence in leadership, Advantages and Disadvantages of emotional intelligence, emotional intelligence skills 2.2 Social intelligence: Concept, Importance, Advantages and Disadvantages of social intelligence, 2.3 Models of emotional and social intelligence
September 2023	B. Com. I (Principles of Marketing)	I	**Unit -3 Rural marketing:** 3.1 Growing importance; 3.2 Distinguishing characteristics of ruralmarketing; 3.3 Understanding rural consumers and rural markets. 3.4 Marketing mix planning for rural markets.
	B. Com. II (Corporate Accounting)	I	**Unit III**: Profit /Loss Prior to Incorporation. (in vertical format only)
	B. Com. III (Advanced accounting Paper II)	II	**Unit -3 Company audit** 3.1 Eligibility, qualification, disqualification of auditors, 3.2 Appointment of auditors, removal and renumeration, powers and duties of auditor 3.3 Branch audit and Joint audit, 3.4 Reporting under Companies act CARO
	B. Com. III (Advanced Costing paper - I)	II	**Unit -3 Material Cost** 3.1 Storage, Objective of Material, 3.2 Fixation of Stock levels and Economic order quantity, 3.3 Pricing of Material- FIFO, LIFO, Simple Average Method, Weighted average method.
	B. Com. III (Modern Management Practices)	I	**3. Customer Relationship Management (CRM) and SupplyChain Management (SCM)** 3.1 Customer Relationship Management (CRM) : Concept, 3.2 Importance, Elements, Process, e-CRM 3.3 Supply Chain Management (SCM): Concept, Importance,Components, Process, Benefits of SCM
October 2023	B. Com. I (Principles	I	**Unit-4 Recent developments in marketing:** 4.1 Social Marketing,

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	of Marketing)		4.2 Online marketing, 4.3 green marketing. 4.4 Marketing Information System-concept and components:Marketing Research and its process.
	B. Com. II (Corporate Accounting)	I	**Unit - 4 : Practical of Fundamental Computerized Accounting** 4.1 Create a Company 4.2 Prepare Financial Statement
	B. Com. III (Advanced accounting Paper II)	II	**Unit – 4 Special audit and Audit Report** 4.1 Special audit of Banks, Charitable trust, hotels and Hospitals. 4.2 Elements of Audit report, Types of report, Disclaimer of Opinion.
	B. Com. III (Advanced Costing paper - I)	II	**Unit – 4 Labour Cost** 4.1 Meaning and Importance of Labour Cost, 4.2 Time Keeping and Time Booking 4.3 Methods of remuneration and incentives 4.4 Time rate, Piece rate, Talyors differential piece rate and Rowan Plan
	B. Com. III (Modern Management Practices)	I	**4. Lean Management and Talent Management** 4.1Lean Management: Concept, Principles, Benefits and disadvantages, **4.2** Tools of lean Management, lean management best practices 4.3 Talent Management: Concept, Importance, 4.4 Process, Components, benefits of Talent Management.
Oct –Nov 2023	University Examination		

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Padmabhushan Vasantraodada Patil Mahavidyalaya

Teaching Plan

Class: B. Com. Part- I, II, & III
Semster- II, IV, VI

Mrs. Pooja R Mali

Month	Class	Paper No.	Units to be completed
Dec 2023	B. Com. I (Principles of Marketing)	I	Unit – 1 **Product** 1.1 Meaning and importance, Product classifications; 1.2 Concept of product mix; 1.3 Branding, packaging and labeling; Product-Support; 1.4 Product life-cycle; New Product Development..
	B. Com. II (Corporate Accounting)	I	**Unit No- 1 Redemption of Preference Shares** 1. Redemption of Preference shares
	B. Com. III (Advanced accounting)	I	**Unit No- 1 Basics Concepts :** 1.1 Income tax , Basis charges, Rates, concepts pervious assessment year, person, assesse, Income. 1.2 Residential Status , and tax liability
	B. Com. III (Advanced Costing)	I	**Unit No- 1 Job costing and unit costing** 1.1 Job costing – meaning features and application 1.2 Unit costing– meaning features cost sheet
	B. Com. III (Modern Management Practices)	I	**Unit No- 1Total Quality Management & Quality Standards** a. TQM – concepts, principles, Elements of TQM, benefits and disadvantage in TQM b. Quality Standards: Bench Marking , Six sigma, ISO 9000
Jan 2024	B. Com. I (Principles of Marketing)	I	**Unit-2 Pricing and Promotion:** 2.1Pricing: Significance, Factors affecting price of a product. 2.2 Pricing policies and Strategies 2.3 Promotion: Nature and Importance of promotion Promotion tools: advertising, personal selling, public relation & 2.4 sales promotion –concept and their distinctive characteristics; Promotion mix and factors affecting promotion mix decisions
	B. Com. II (Corporate Accounting)	I	**Unit-2 Valuation of shares** 2.1 Intrinsic value method, 2.2 Market value Method (Capitalization of profit and dividend basis) 2.3 Fair value.
	B. Com. III (Advanced accounting	II	**Unit- 2 –Exemption and Deduction from Total Income** 2.1 Exemptions

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	Paper II)		2.2 Deductions from Total Income
	B. Com. III (Advanced Costing paper - I)	II	**Unit- 2 Process Costing** 2.1 Process costing – meaning , application, equivalent production. 2.2 Joint product and by products
	B. Com. III (Modern Management Practices)	I	**Unit-2 Japanese and Chinese management** 2.1 Japanese management- Concept, characteristics, 8 key techniques 2.2 Chinese management- Concept, characteristics, key techniques , diff between Chinese and western management
Feb 2024	B. Com. I (Principles of Marketing)	I	**Unit- 3 Distribution: Channels of distribution– meaning and importance:** 3.1 Types of distribution channels; Wholesaling and retailing; 3 . 2 Factorsaffecting choice of distribution channel; Physical Distribution. 3.3 Direct marketing and Services marketing-concept and characteristics.
	B. Com. II (Corporate Accounting)	I	**Unit - 3: Preparation of Final Accounts of Companies.** 3.1 Preparation of Statement of Profit & Loss a/c 3.2 Preparation of Balance Sheet
	B. Com. III (Advanced accounting Paper II)	II	**UNIT-3 Heads of Income, Computation of Total Income** 3.1 Income from Salary 3.2 Income from House Property 3.3 Income from Business /Profession 3.4 Income from Capital Gain 3.5 Computation of GTI, Tax liability.
	B. Com. III (Advanced Costing paper - I)	II	**Unit – 3 Contract costing** **3.1 contract costing- meaning features retention money,**
	B. Com. III (Modern Management Practices)	I	**Unit – 3 Event & Performance Management** 3.1 Event Management- concepts, importance, procedure, types and benefits. 3.2 Performance Management- concepts, evolution, need, process of performance management.
Mar2024	B. Com. I (Principles of Marketing)	I	**Unit- 4 Distribution: Channels of distribution– meaning and importance:** 4.1 Types of retailing: store -based and non-store based retailing, 4.2 chain stores, specialty stores, supermarkets, retail vending machines, mail order houses, 4.3 retail cooperatives; Management of retailing operations; 4.4 An over view; Retailing in India: changing scenario.

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	B. Com. II (Corporate Accounting)	I	**Unit -4 Store Accounting with Practical using Tally** 4.1 Inventory Control 4.2 Material Management
	B. Com. III (Advanced accounting Paper II)	II	**Unit – 4 Basics of GST** 4.1 Meaning and features of GST 4.2 Benefits and need of GST 4.3 Provisions, Levy and collection of GST 4.4 Introduction of CGST, SGST, IGST and UGST.
	B. Com. III (Advanced Costing paper - I)	II	**Unit – 4 Operation /Service Costing** 4.1 service costing-meaning & definition , application of service costing 4.2 Determination of service costing in transport industry.
	B. Com. III (Modern Management Practices)	I	**Unit – 4- Time and Stress Management** 4.1 Time management concepts, importance, procedure, Techniques. 4.2 Stress Management- meaning , causes effect , techniques of stress management
Mar – Apr 2023	University Examination		

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DEPARTMENT OF CHEMISTRY

Annual Teaching Plan

Acadamic Year 2023-2024

Name : Dr. G. D. Kore

Month	Class	Paper	Unit / Points
July	B.Sc. I	Theory I	Unit II: Chemical Bonding and Molecular Structure: Ionic Bonding 2.1 Types of Chemical Bonds: a) Ionic Bond b) Covalent Bond c) Co-ordinate bond d) metallic bond e) Hydrogen Bond f) Van-der walls force. 2.2 Definition and formation of ionic bond. General characteristics of ionic bonding 2.3 Energetic in ionic bond formation. .
		Practical	General instruction & introduction to the lab safety
	B.Sc. III	Theory IX	Unit 1. Acids, Bases and Non aqueous Solvents
August	B.Sc. I	Theory I	Unit II: Chemical Bonding and Molecular Structure: Ionic Bonding2.4 Born-Haber cycle for NaCl and its applications. 2.5 Fajan's Rule, Applications of Fajan's rule for, i) Polarizing power and polarizability ii) ionic character in covalent compounds iii) Bond moment, dipole moment and percentage ionic character
		Practical	1. To prepare standard 0.1 N KMnO4 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 K2Cr2O7 solution by using internal indicator 3. To estimate amount of Cu (II) ions by iodometric titration by using Na2S2O3 solution.
	B.Sc III	Theory IX	Unit 2. Metal Ligand bonding in Transition Metal Complexe, Home Assignment
		Practical	G1.Gravimetric estimation of iron as ferric oxide (Fe2O3).. G3. Gravimetric estimation of barium as barium sulphate(BaSO4)
September	B.Sc. I	Theory I	Unit III: Chemical Bonding and Molecular structure :Valence bond theory (VBT). 3.1 VSEPR Theory. 3.2 Concept of hybridization, different types of hybridization and geometry of following molecules, i) Linear geometry- BeCl2 (sp hybridization) ii) Planer trigonal geometry , Home Assignment
		Practical	1) Quality control-To determine percentage purity of the given sample of soda ash (Na2CO3) by titrimetric method. 2) Chromatography: Separation and identification of cations by Paper Chromatography technique 3) Spot Test: Identify the metal ions by spot test method.
		Theory IX	Unit 3. Metals, Semiconductors and Superconductors, Unit Test

	B. Sc. III	Practical	G5.Gravimetric estimation of nickel as bis (dimethylglyoximato) nickel (II) G6.Gravimetric estimation of aluminium as aluminium oxinate potassium tris (8-hydroxy quinolato) aluminium (III)
October	B.Sc. I	Theory I	Unit III: Chemical Bonding and Molecular structureiii) Tetrahedral geometry- SiCl4 (sp3 hybridization) iv) Trigonal bipyramidal geometry- PCl5 (sp3d hybridization) v) Octahedral geometryvi) Pentagonal bipyramidal geometry
		Practical	Estimations : i) Estimation of Acetamide. ii) Estimation of Aspirin tablet., Organic Qualitative AnalysisCompound No. 1
	B.Sc III	Theory IX	Unit.4. Organometallic Chemistry. Unit 5. Catalysis
		Practical	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 diamminetetrathiocynato chromate (III)
Novenber	B.Sc. I		Diwali Vacation & University exams
	B.Sc. III		Diwali Vacation & University exams
December	B.Sc. I	Practical	Organic Qualitative AnalysisCompound No. 2 to 5
	B.Sc. II	Theory VII	Unit 2: Chelation 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
	B.Sc. III	Theory XIII	Unit 1. Coordination Chemistry A. Inorganic Reaction mechanism B. Thermodynamic and Kinetic aspects of metal complexes
		Practical	V1. Determination of percentage purity of ferrous ammonium sulpahte. 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 V2. Determination of percentage purity of tetrammine copper (II) sulphate.
	B.Sc. I	Practical	1) Determination of heat of ionization of weak acid by using polythene bottle. 2) Determination of Surface tension of the given liquids by Stalagmometer. 3) Determination of equivalent weight of Mg by eudiometer.
	B.Sc. II	Theory VII	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
		Theory XIII	Unit 2. Nuclear Chemistry Unit 5. Bio-inorganic Chemistry.

January	B.Sc. III	Practical	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(Mg2+ and Zn2+) using anion exchange resin and standard solution of EDTA **Potentiometry** 1. Titration of strong acid with strong alkali. 2. Preparation of buffer solution and determination of their pH 3. Determination of standard electrode potential of Zn/Zn++, Cu/Cu++
February	B.Sc. I	Practical	1) Determination of viscosity of given liquids A and B 2) To study the velocity constant of hydrolysis of methyl acetate in presence HCl/ H2SO4.
	B.Sc. II	Theory VII	Unit 3: Chemistry of Elements of 3d Series Elements 3.1 Position of elements in periodic table 3.2 Characteristics of d-block elements with special reference to i) Electronic structure ii) Oxidation states, stability of oxidation states of Fe with respective to Latimer diagram
	B.Sc. III	Theory XIII	Unit 3. Chemistry of f- Block Elements, A.Lanthanides B. Actinides, Home Assignment
		Practical	**B. Conductometry** 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 3. To determine the normality of citric acid in lemon by titrating it against standard 0.2 N NaOH solution by conduct metric method C. **Refractometry.** 1. To determine the percentage composition of unknown mixture by (i) graphical method and (ii) by composition law **D. Colorimetry**. 1. To verify Lambert – Beer's law using CuSO4 solution. 2. To estimate of Fe+++ ions by thiocynate method.
March	B.Sc. I	Practical	Submission/ Practical Examination
	B.Sc. II	Theory VII	Unit 3: Chemistry of Elements of 3d Series Elements iii) magnetic characteristics iv) Colored ions v) Complex formation.
	B.Sc. III	Theory XIII	Unit 4. Iron and Steels, Unit Test
		Practical	Submission/ Practical Examination
April/ May			University Examination

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DEPARTMENT OF CHEMISTRY

Annual Teaching Plan

Acadamic Year 2023-2024

Name : Mr. A.A. Kambje

Month	Class	Paper	Unit / Points
July	B.Sc. III	Theory XII	**Unit 1. Theory of Gravimetric Analysis** 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: 1.6 Organic precipitants and their applications.
August	B.Sc. II	Practical	1) To study the hydrolysis of methyl acetate in presence of HCl and H2SO4 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 rate of hydrolysis of an ethyl acetate by an alkali. 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 conductometrically.
	B.Sc III	Theory XII	**Unit 2. Flame Photometry** 2.1 Introduction. 2.2 General principles of flame photometry. 2.3 Instrumentation. 2.4 Effect of solvent in flame photometry 2.5 Experimental procedure of analysis (Standard addition and internal standard). 2.6 Interferences and Factors 2.7 Applications of flame photometry in real sample analysis. 2.8 Limitations of flame photometry.
		Practical	Organic Qualitative analysis Separation of binary mixture and identification of one component. Nature 1) Solid – Solid : 4 mixtures 2) Solid – Liquid : 2 mixtures
	B.Sc. II	Practical	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 10) To determine the specific rotation and unknown concentration of sugar solution

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September	B. Sc. III	Theory XII	**Unit 3. Colorimetry and Spectrophotometry** 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
		Practical	
October	B.Sc. II	Practical	i) Gravimetric estimation of iron as Fe2O3 from a solution containing Ferrous ammonium sulphate and free sulphuric acid. ii) Gravimetric estimation of barium as BaSO4 from a solution containing barium chloride and free hydrochloric acid. iii) Gravimetric estimation of nickel as Ni(DMG)2 from a solution containing NiSO4.7H2O and free sulphuric acid.
	B.Sc III	Theory XII	Unit 4. Potentiometric titrations 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.
		Practical	Organic Estimations: 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.
Novenber	B.Sc. II		Diwali Vacation & University exams
	B.Sc. III		Diwali Vacation & University exams
December	B.Sc. II	Practical	i) Preparations of sodium cuprous thiosulphate ii) Preparation of tris (ethylene diamine) nickel (II) thiosulphate iii) Preparation of hexammine nickel (II) chloride iv) Preparation of tetrammine copper (II) sulphate. 3) Semi-micro Qualitative Analysis
	B.Sc. III	Theory XVI	Unit 5. Nanotechnology 5.1 Introduction 5.2 Optical properties of Nanomaterial's 5.3 Synthetic Routes of nanomaterials:5.4 Synthesis methods: . 5.5 Characterization of nanomaterials:5.6 Applications of nanotechnology. **SEMINARS**
		Practical	**Organic Estimations** 1. Determination of Molecular weight of monobasic/dibasic acid by volumetric method. 2. Estimation of unsaturation –to estimate the percentage purity of given olefinic compound by brominationmethod., **Organic Preparations** 1. Benzil-Benzilic acid rearrangement reaction

January	B.Sc. II	Practical	i) Fertilizer analysis: To determine percentage of nitrogen in the given sample of a nitrogenous fertilizer (ammonium sulphate). ii) Analysis of Synthetic /Commercial Sample: To estimate Magnesium from talcum powder. iii) Determination of alkali content from antacid tablet using HCl solution . iv) Estimation of Calcium from chalk: v) Determination of total hardness of water using 0.01M EDTA solution.
	B.Sc. III	Theory XVI	Unit 1. Sugar Industry 1.1 Introduction. 1.2 Manufacture of cane sugar in India: 1.3 Byproducts of sugar industry. 1.4 Manufacture of Ethyl Alcohol from Molasses: by Fermentation
		Practical	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 N H_2SO_4. 2. The study of energy of activation of second order reaction i.e. reaction between $K_2S_2O_8$ and KI (Equal concentrations). 3. The study of energy of activation of second order reaction i.e. reaction between $K_2S_2O_8$ and KI (Unequal concentrations).
February	B.Sc. II	Practical	1) Organic Qualitative Analysis 1-8
	B.Sc. III	Theory XVI	Unit 2. Manufacture of Industrial Heavy Chemicals 2.1 Introduction 2.2 Manufacture of Ammonia (NH_3)2.3 Manufacture of Sulphuric acid (H_2SO_4). 2.4 Manufacture of Nitric acid (HNO_3) 2.5 Manufacture of Sodium carbonate (Na_2CO_3). , **Home Assignment**
		Practical	3. The study of energy of activation of second order reaction i.e. reaction between $K_2S_2O_8$ 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.
March	B.Sc. II	Practical	ii) Estimation of vitamin C. iii) Estimation of Phenol by Bromination method iv) Estimation of formaldehyde by sodium sulphite method v) Estimation of ester. II) Organic preparations i) p-nitro acetanilide from acetanilide. ii) Acetanilide from aniline using anhydrous $ZnCl_2$ and Zn dust. iii) Phthalimide from phthalic anhydride. iv) Benzoic acid from benzamide
	B.Sc. III	Theory XVI	Unit 4. Petroleum industry and eco-friendly fuels A] Petroleum industry Introduction, occurrence, composition of petroleum, resources, processing of petroleum, calorific value of fuel, cracking, octane rating (octane number), cetane **Unit Test**
		Practical	Submission/ Practical Examination
April/ May			University Examination

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DEPARTMENT OF CHEMISTRY

Annual Teaching Plan

Acadamic Year 2023-2024

Name : Mr. A. S. Pawar

Month	Class	Paper	Unit / Points to be covered
July	B.Sc. I	Theory I	**Unit V: P-Block Elements** (Group 13, 14, 15) 5.1 Position of elements in periodic table. 5.2 Characteristics of group 13th, 14th and 15th elements with special reference to electronic configuration and periodic properties. 5.3 Compounds of group13th, 14th and 15th elements. 5.3.1 Boron –diborane.
		Practical	General instruction & introduction to the lab safety
	B.Sc. II	Theory V	**Unit 1: Electrolytic Conductivity** 1.1 Introduction, Migration of ions. 1.2 Hittorf's rule, Transference number, d 1.3 Kohlrausch law . 1.4 Conductometric titrations . Advantages of conductometric titrations. 1.5 Numerical problems
	B.Sc. III	Theory XI	**Unit 3. Photochemistry** 3.1 Introduction, Difference between thermal and photochemical processes. 3.2 Laws of photochemistry: 3.3 Quantum yield, 3.4 Factors affecting Quantum yield
	B.Sc. I	Theory I	**Unit V: P-Block Elements** (Group 13, 14, 15)5.3.2 Allotropes of carbon and phosphorus. 5.3.3 Oxya ids of Nitrogen **Unit I: Fundamentals of Organic Chemistry** Introduction, Curved arrow notations, Cleavage of Bonds: Homolysis and Heterolysis. Organic molecular species: Nucleophiles and electrophiles. Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyper conjugation effect, **Home Assignment**
		Practical	1. To prepare standard 0.1 N KMnO4 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 K2Cr2O7 solution by using internal indicator 3. To estimate amount of Cu (II) ions by iodometric titration by using Na2S2O3 solution.

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August	B.Sc. II	Theory V	**Unit 2: Thermodynamics** 2.1 Introduction, Concept of Entropy: Definition, mathematical expression, unit. 2.2 Physical significance of Entropy. 2.3 Entropy changes for reversible and irreversible processes in isolated systems. 2.4 Entropy changes for an ideal gas as a function of V & T and as function of P & T. 2.5 Entropy change in mixing of gases. 2.6 Entropy change in phase transformations. 2.7 Third law of thermodynamics, 2.8 Numerical problems. **Unit 3: Chemical kinetics** 3.1 Introduction. 3.2 Third order reactions. **Home Assignment**
	B.Sc III	Theory XI	**Unit 3. Photochemistry**3.5 Photosensitized reactions. 3.6 Photodimerisation of anthracene, decomposition of HI and HBr. 3.7 Jablonski diagram 3.8 Chemiluminescence, Electroluminescence and Bioluminescence. 3.9 Numerical problems
		Practical	G1.Gravimetric estimation of iron as ferric oxide (Fe_2O_3).. G3. Gravimetric estimation of barium as barium sulphate($BaSO_4$)
September	B.Sc. I	Theory I	**Unit I: Fundamentals of Organic Chemistry** Intermediates: Generation, Structure, Stability and Reactions of Carbocations, Carbanions, Carbon free radicals, Carbene and Nitrene.
		Practical	1) Quality control-To determine percentage purity of the given sample of soda ash (Na_2CO_3) by titrimetric method. 2) Chromatography: Separation and identification of cations by Paper Chromatography technique 3) Spot Test: Identify the metal ions by spot test method.
	B.Sc. II	Theory V	**Unit 3: Chemical kinetics** 3.3 Determination of order of reaction 3.4 Effect of temperature on rate of reaction, Arrhenius equation. Concept of energy of activation. 3.5 Numerical problems. **Unit 5: Surface Chemistry** 5.1 Introduction, 5.2 Factors affecting adsorption, Types of adsorption, Distinction between physical and chemical adsorption, 5.3 Adsorption isotherms: 5.4 Applications of adsorption.
	B. Sc. III	Theory XI	**Unit 4. Solutions** 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. **Unit Test,**
		Practical	G5.Gravimetric estimation of nickel as bis (dimethylglyoximato) nickel (II) G6.Gravimetric estimation of aluminium as aluminium oxinate potassium tris (8-hydroxy quinolato) aluminium (III)

October	B.Sc. I	Theory I	**Unit II: Stereochemistr**, Introduction, Types of Stereoisomerism, Representation of organic molecules using Wedge, Fischer, Sawhorse and Newman formula, 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 Test**
		Practical	Organic Estimations : i) Estimation of Acetamide. ii) Estimation of Aspirin tablet., Organic Qualitative Analysis Compound No. 1
	B.Sc. II	Theory V	**Unit 4: States of Matter** 4.1 Introduction, 4.2 Postulates of Kinetic Theory of Gases and derivation of the kinetic gas equation. 4.3 Ideal and Non ideal gases, 4.4 Van der Waals equation of state for real gases. . 4.5 Critical Phenomena: PV-isotherms of real gases 4.6 Liquid crystals: Difference between liquid crystal, solid and liquid. 4.7 Classification, . 4.8 Thermography and seven segment cell. 4.9 Numerical Problems. **Unit Test**
	B.Sc III	Theory XI	**Unit 4. Solution** 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.**Instrument Operation**
		Practical	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 ammoniumdiamminetetrathiocynato chromate
Novenber	B.Sc. I		Diwali Vacation & University exams
	B.Sc. II		Diwali Vacation & Univ sity exams
	B.Sc. III		Diwali Vacation & Univ sity exams
	B.Sc. I	Theory III	**Unit 1: Basic Mathematical Concepts** 1.1 Logarithm: Basic rules and calculations. 1.2 Graph - Quadrants, drawing of linear graph, Slopes and intercept. 1.3 Derivative and Integration: Basic rules **Unit 3: Chemical Kinetics** 3.1 Introduction, rate of reaction, definition, and units of rate constant. 3.2 Factors affecting rate of reaction. 3.3 Order and Molecularity of reaction

		Practical	Organic Qualitative Analysis Compound No. 2 to 5
December	B.Sc. II	Theory VII	**Unit 1: Co-ordination Chemistry** 1.1 Introduction- 1.2 Terminology- Description of the terms 1.3 Effective atomic number rule. 1.4 Distinguish between double salt and complex salt. 1.5 Werner's theory 1.6 IUPAC nomenclature of coordination compounds. 1.7 Isomerism in complexes 1.8 Valance bond theory of transition metal complexes
	B.Sc. III	Theory XIII	**Unit 4. Chemical Kinetics** 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, **Industrial Visit**
		Practical	V1. Determination of percentage purity of ferrous ammonium sulpahte. 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 V2. Determination of percentage purity of tetrammine copper (II) sulphate. **Project Work**
	B.Sc. I	Theory III	**Unit 3: Chemical Kinetics** 3.4 First order reaction: Derivation of rate constant. Characteristics of the first order reaction. 3.5 Pseudo- first order reactions 3.6 Second order reaction: Derivation of rate constant for equal and unequal concentration of the reactants. 3.7 Examples of Second order reaction: 3.8 Characteristics of Second order reactions. 3.9 Numerical problems. **Home Assignments**
		Practical	1) Determination of heat of ionization of weak acid by using polythene bottle. 2) Determination of Surface tension of the given liquids by Stalagmometer. 3) Determination of equivalent weight of Mg by eudiometer.

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January	B.Sc. II	Theory VII	**Unit-4. Chemistry of 4f Elements (Lanthanides)** 4.1 Position of lanthanides in periodic table 4.2 Occurrence 4.3 Characteristics of 4f elements with special reference to 4.3.1 Electronic configuration 4.3.2 Oxidation states 4.3.3 Magnetic properties 4.3.4 Lanthanide contraction 4.4 Separation of lanthanides **Unit-5. Inorganic Semi-micro Qualitative Analysis** 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 Applications of complex formation . 5.4 Application of oxidation and reduction b) Separation of NO_2^- and NO_3^- in mixture. 5.5 Spot test analysis.**Fertilizers Survey**
	B.Sc. III	Theory XV	**Unit 4. Chemical Kinetics.** 4.2 Simultaneous reactions such as ii. Side reaction. iii. Consecutive reactions. iv. Chain reaction. v. Explosive reaction
		Practical	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 **Potentiometry** 1. Titration of strong acid with strong alkali. 2. Preparation of buffer solution and determination of their pH 3. Determination of standard electrode potential of Zn/Zn++, Cu/Cu++
	B.Sc. I	Theory III	**Unit 5: Electrochemistry** 5.1 Introduction, types of cell, phenomenon of electrolysis, Faradays Laws of electrolysis. 5.2 Types of conductors. 5.3 Explanations of Conductance, specific conductance, equivalence and molecular conductance. 5.4 Variation of specific conductance, equivalence and molecular conductance with dilution, equivalent conductance at infinite dilution. 5.5 Dipping type of conductivity cell, 5.6 Measurement of conductance by Wheatstone bridge. 5.7 Cell constant and its determination. 5.8 Numerical problems. **Home Assignments**
		Practical	1) Determination of viscosity of given liquids A and B 2) To study the velocity constant of hydrolysis of methyl acetate in presence HCl/ H_2SO_4.

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February	B.Sc. II	Theory VII	**Unit 1: Carboxylic Acids and Their Derivatives.** 1.1 Monocarboxylic acids . 1.2 Halo acids: 1.3 Hydroxy acids:1.4 Di carboxylic acids: 1.5 Carboxylic acid derivatives. **Unit 3: Carbohydrates** 3.1 Introduction. 3.2 Classification of carbohydrates 3.3 Physical properties of glucose and fructose. 3.4 Killiani's synthesis of Glucose 3.6 Cyclic structure of Fructose 3.7 Structures of Disachharides . 3.8 Structures of Polysachharides: a) Starch b) Cellulose **Group Discussion**
	B.Sc. III	Theory XIII	**Unit 5 Distribution law** 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 solution
		Practical	**B. Conductometry** 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 3. To determine the normality of citric acid in lemon by titrating it against standard 0.2 N NaOH solution by conduct metric method **C. Refractometry.** 1. To determine the percentage composition of unknown mixture by (i) graphical method and (ii) by composition law **D. Colorimetry**. 1. To verify Lambert – Beer's law using CuSO4 solution. 2. To estimate of Fe+++ ions by thiocynate method.
March	B.Sc. I	Theory III	**Unit 5 Distribution law** 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. , **SEMINARS**
		Practical	Submission/ Practical Examination
	B.Sc. II	Theory VII	**Unit 5: Stereochemistry** 5.1 Conformational isomerism – Introduction. 5.2 Representation of conformations of ethane5.3 Conformations and conformational analysis of ethane and n-butane 5.4 Relative stability cycloalkanes . 5.5 Conformations and stability of cyclohexane 5.6 Conformation and stability of methyl cyclohexane. 5.7 Locking of conformation in t-butyl cyclohexane. **Unit Test**

	B.Sc. III	Theory XIII	**Unit 2: Thermodynamics** 2.1 Introduction, Basic terms used in thermodynamics, Zeroth law of thermodynamics 2.2 First law of thermodynamics. 2.3 Spontaneous and non-spontaneous processes, Second law of thermodynamics. 2.4 Heat engine, Carnot's Cycle and efficiency of heat engine. 2.5 Numerical Problems. **Unit Test**
		Practical	Submission/ Practical Examination
April/ May			University Examination

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DEPARTMENT OF CHEMISTRY

Annual Teaching Plan

Acadamic Year 2023-2024

Name : Dr. R. S. Sutar

Month	Class	Paper	Unit / Points
July	B.Sc. I	Theory I	**Unit 1. Atomic Structure and Periodicity of Elements** 1.1 Atomic Structure. 1.2 Bohr's theory of Hydrogen atom and its limitations. 1.3 Wave particle duality. 1.4 Heisenberg uncertainty principle. 1.5 Quantum numbers and theirs significance. 1.6 Shapes of s, p and d atomic orbitals. 1.7 Electrons filling rulesin various orbitals: a) Aufbau's principle, b) Hunds rule of maximum multiplicity, c) Pauli's exclusion principle.
	B.Sc. II	Theory VI	**Unit 3. Corrosion and Electroplating** **A) Corrosion:** 3.1 Introduction of corrosion. 3.2 Electrochemical theory of corrosion. 3.3 Factors affecting on corrosion, i) Position of metals in the electrochemical series on the basis of standerd reduction potential. ii) Purity of metal. iii) Effect of moisture. iv) Effect of Oxigen (Differential aeration principle). v) Hydrogen over voltage.
August	B.Sc. I	Theory I	**Unit 1. Atomic Structure and Periodicity of Elements** 1.8 Electronic configuration of elements. Stability of empty, half-filled and completely filled orbitals. 1.9 Periodicity of the elements: General discussion of the following properties of the elements with reference to s block elements: a) electronics configuration, b) atomic radii, c) ionic radii, d) ionization energy, e) electron affinity, f) electronegativity, g) metallic characters, h) reactivity, i) oxidation state, j) mailting and boiling points, k) chemical
	B.Sc. II	Practical	1) To study the hydrolysis of methyl acetate in presence of HCl and H2SO4 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 rate of hydrolysis of an ethyl acetate by an alkali. 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 conductometrically.

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		Theory VI	**Unit 3. Corrosion and Electroplating** 3.4 Methods of protections of metals from corrosion. a) Making metal cathodic. b) Controling external condition. c) Coating galvanising d) Tinnig. e) electroplating. f) Organic coating. **B) Electroplating:** 3.5 Electrolysis, Faraday's law and Current efficiency. 3.6 Basic principle of electroplating. 3.7 Cleaning of articles. 3.8 Electroplating of Chromium. 3.9 Anodising
	B.Sc III	Practical	Organic Qualitative analysis Separation of binary mixture and Identification of one component. Nature 1) Solid – Solid : 4 mixtures 2) Solid – Liquid : 2 mixtures
September	B.Sc. I	Theory I	**Unit 4. Acids and Bases** 4.1 Introduction of acids & bases. 4.2 Theories of acids and bases, a) Arrhenius concept b) Bronsted-Lowry concept, c) Lewis concept, d) Lux-Flood concept (Definations and examples only)
	B.Sc. II	Practical	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 10) To determine the specific rotation and unknown concentration of sugar solution
	B. Sc. II	Theory VI	**Unit 4. Chromatographic Techniques** 4.1 Introduction. 4.2 Classification of chromatographic methods. 4.3 Column chromatography. a) Introduction. b) Types of column chromatography. c) Principle of column chromatography. d) Methodology.
	B.Sc III	Practical	Organic Qualitative analysis Separation of binary mixture and Identification of one component. Nature 2) Solid – Liquid : 2 mixtures
October	B.Sc. I	Theory I	**Unit 4. Acids and Bases** 4.3 Hard & soft acids & bases. i) Classification of acids and bases as hard, soft & borderline, ii) Pearson's HSAB concept, iii) Acid-base strength & hardness-softness, iv) Applications & limitations of HSAB concept
	B.Sc. II	Practical	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 $Ni(DMG)_2$ from a solution containing $NiSO_4.7H_2O$ and free sulphuric acid.

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		Theory VI	**Unit 4. Chromatographic Techniques** 4.4 Ion-exchange chromatography. a) Introduction. b) Types of Ion-exchange chromatography. c) Principle of Ion-exchange chromatography. d) Methodology. e) Applications
	B.Sc III	Practical	Organic Estimations: 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.
Novenber	B.Sc. I		Diwali Vacation & University exams
	B.Sc. II		Diwali Vacation & University exams
	B.Sc. III		Diwali Vacation & University exams
December	B.Sc. I	Theory IV	**Unit 1. Introduction to analytical Chemistry** 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).
	B.Sc. II	Practical	i) Preparations of sodium cuprous thiosulphate ii) Preparation of tris (ethylene diamine) nickel (II) thiosulphate iii) Preparation of hexammine nickel (II) chloride iv) Preparation of tetrammine copper (II) sulphate. 3) Semi-micro Qualitative Analysis
	B.Sc. III	Practical	**Organic Estimations** 1. Determination of Molecular weight of monobasic/dibasic acid by volumetric method. 2. Estimation of unsaturation –to estimate the percentage purity of given olefinic compound by brominationmethod., **Organic Preparations** 1. Benzil- Benzilic acid rearrangement reaction
January	B.Sc. I	Theory IV	**Unit 2. Fundamentals of Industrial Chemistry and IPR** 2.1 Difference between classical and industrial chemistry, Raw materials for chemical industry, Material safety data sheets (MSDS). 2.2 Definition and Explanation of terms - Molecular weight, Equivalent weight, Molarity, Normality, Molality, Molarity of mixed solution, Acidity of base, Basicity of acid, ppt, ppm, ppb solutions, Mole Fraction, Weight fraction, Percentage composition by W/W, W/V, V/V, Problems based on Normality, Molarity, mole fraction, mixed solution, etc. 2.3 IPR- Introduction to IPR and its significance in presence scenario.
	B.Sc. II	Practical	i) Fertilizer analysis: To determine percentage of nitrogen in the given sample of a nitrogenous fertilizer (ammonium sulphate). ii) Analysis of Synthetic /Commercial Sample: To estimate Magnesium from talcum powder. iii) Determination of alkali content from antacid tablet using HCl solution . iv) Estimation of Calcium from chalk: v) Determination of total hardness of water using 0.01M EDTA solution.

	B.Sc. III	Practical	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 N H2SO4. 2. The study of energy of activation of second order reaction i.e. reaction between K2S2O8 and KI (Equal concentrations). 3. The study of energy of activation of second order reaction i.e. reaction between K2S2O8 and KI (Unequal concentrations).
February	B.Sc. I	Theory IV	**Unit 3. Chromatography** 3.1 Introduction, Basic Principle of Chromatography, Basic terms, Classification of Chromatography 3.2 Paper Chromatography-Principle, Methodology-types of papers and treatment, sample loading, choice of solvent, development-ascending, descending, circular, location of spots, determination of Rf value, Applications, advantages and disadvantages 3.3 Thin layer chromatography-Principle, Solvent system, stationary phases, preparation of TLC plate, Detecting reagents, methodology-sample loading, development, detection of spot, Rf value, Applications, advantages and disadvantages 3.4 Comparison of paper chromatography and TLC.
	B.Sc. II	Practical	1) Organic Qualitative Analysis 1-8
	B.Sc. III	Practical	3. The study of energy of activation of second order reaction i.e. reaction between K2S2O8 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.
March	B.Sc. I	Theory IV	**Unit 4. Theory of titrimetric Analysis** 4.1 Introduction. 4.2 Acid-base indicators. 4.3 Theory of indicators w.r.t. Ostwald's ionization theory and quinoid theory. 4.4 Neutralization curves and choice of indicators for a. Strong acid-strong base b. Strong acid-weak base c. Strong base-weak acid 4.5 Complexometric titrations a. Introduction b. Types EDTA titrations c. Metallochromic indicators-Eriochrome black- T d. Indicator Action of Eriochrome black- T.
	B.Sc. II	Practical	ii) Estimation of vitamin C. iii) Estimation of Phenol by Bromination method iv) Estimation of formaldehyde by sodium sulphite method v) Estimation of ester. II) Organic preparations i) p-nitro acetanilide from acetanilide. ii) Acetanilide from aniline using anhydrous ZnCl2 and Zn dust. iii) Phthalimide from phthalic anhydride. iv) Benzoic acid from benzamide
	B.Sc. III	Practical	Submission/ Practical Examination
April/ May			University Examination

Dr. R. B. Sutar

Head
Department Of Chemistry
P. V. P. Mahavidyalaya,
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Shikshan Prasarak Sanstha's
Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

Department of Physics

Mrs P U Mahamuni

Annual Teaching plan

Year 23 - 24

Month	Class/Paper	Unit/Topic/Article
July 23	B Sc I	General discussion of syllabus theory and practicals. Introduction of Mechanics II
	B Sc II	---"---
	B Sc III	Introduction to Quantum mechanics syllabus P X , Pra set I
August 23	B Sc I	Surface tension, angle of contact, relation bet T, P and R. Jeagers method, applications of S T. Numericals Practical set I
	B Sc II	------
	B Sc III	P X- Introduction to syllabus. Q M- M wave packet, relation bet ple velo, phase velo & grp velocity. Davisson & Germers expt. Uncertainty principle. Applications atter waves, De Broglie's hypothesis, wavelength of matter waves , Pra set I, Weekly test .
September 23	B Sc I	Applications of S T. Numericals, Practical set I
	B Sc II	------
	B Sc III	Schrodingers wave equation in 1D and 3D, equation of continuity. Introduction to Oprators in Q M. X position oprator, P momentum operator, T kinetic energy operator, H, π, and L operator., pra. Set II, weekly test.
October 23	B Sc I	Elastisity,--Introduction, bending moment, cantilever, work done in twisting wire, Determination of Y, K and η. Pra set II
	B Sc II	------
	B Sc III	Applications of Schrodingers eq. Hydrogen atom eq. mcq Test on paper. Home assignment., Set III
Nov 23	B Sc I	Group discussion on P II
	B Sc II	----------
	B Sc III	University exam
12/11/23 to 23/11/23 Dipawali vacation		
Dec 23	B Sc I	------Pra set II
	B Sc II	Introduction to P VIII, General discussion about syllabus. Resolving power of optical instruments, Rayleigh criterian of resolution, modified Rayleigh criterian, R P of prism and grating.

	B Sc III	P XV-- Atomic and Molecular physics and Astrophysics- Atomic spectra, hydrogen fine structure, spectral notations & optical spectral series.Na spectra, selection & int rules, normal & anamolous Zeeman effect. Weekly test. Pra Set III
Jan 24	B Sc I	-------Pra Set III
	B Sc II	Cardinal points, graphical construction of image, Newtons formula, Lareral and Axial Magnification
	B Sc III	Molecular spectra, - molecular spectra. Hydrogen bonding, hydrogen molecular ion, Rotational spectra, vibrational spectra, electronic spectra of diatomic molecules pra set III. Study tour, students seminars, skill testing practicals
Feb 24	B Sc I	---------Pra set III
	B Sc II	Polarisation of light by double refraction, Huygens explanation with uniaxial crystals, Nicols Prism, Circularly and elliptically polarised light, optical rotation , Polarimeter Set III Practicals
	B Sc III	Raman spectra, classical & quantum theory, ramen lines, comparison of IR & Raman spectra. Structure of Universe- Big Bang, Steady state & Oscillating universe theory, Hubble law, Solar system, Origin, condensation theory and arguments. Skill testing experiments, Study tour
March 24	B Sc I	--------
	B Sc II	Interferance by division of amplitude and division of wavefront, Lloyds mirror, Int. in parallel faced thin films, wedge shaped thin films, Newtons rings. Numericals. Diffraction- types, elementary theory of plane diff grating. MCQ test on paper, practical revision, Exam.....
	B Sc III	Steler evolution, H- R diagram, Red giant and white dwarf stars, supernova, neutron stars, blackholes, Sunspots and Sunspot cycle. MCQ test , home assignment Practical revision and pra exam
Apr 24	B Sc I	-----practical exam
	B Sc II	Diffraction- types, elementary theory of plane diff grating, Half periods zones theory, comparison with convex lense
	B Sc III	Theory exam
May 24	B Sc I	Theory exam
	B Sc II	exam
	B Sc III	----

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Annual Teaching Plan 2023-2024.
Class -B.Sc 1 (Phy.) P. No.-IV (Sem.2) NEP.
Name – Patil Sanjay B.

Month	Topic / Unit	Subtopic Completed.
November	A.C.Circits.	Introduction to syllabus
Decembar	A.C.Circuits	Complex number. J operator and LCR series circuit. Reactance admittance and susceptance of circuit. Sharpness of resonance. Owen's bridge.
January	Magnetism.	Biot - Savart law. Magnetic induction due to to straight conductor, circular coil, solenoid. Ampere's circuital law. Properties of magnetic material. Magnetic induction permeability susceptibility. Para, dia. and ferromagnetic material.
February	Ballistic Galvonometer	Construction and Working of B.G. Damping Correction. Constants .
March / April.	Maxwell's equation and E.M. wave propagation.	Equation of continuity Displacement current. Maxwell equation. Poynting vector. Energy density in em field. Transverse nature of EM waves. Polarization.
May	Revision of syllabus.	University examination.

Class- B.Sc. 2(Phy.) Paper No. VI (Sem. 1) NEP

Month	Topic /Unit	Subtopic Completed.
July	Introduction to syllabus	Introduction to SHM.
August	Superposition of harmonic Oscillations.	Linearity and Superposition. superposition of two collinear harmonic oscillation having equal frequency and different frequencies. Two perpendicular harmonic oscillation having equal frequencies and having frequencies in the ratio 2:1.(graphical and analytical method) Lissajous figures.
September	Coupled Oscillations	Frequencies of cocpled oscillation .Normal modes and Normal coordinates . Energy of the coupled oscillation. Energy -transfer in the system.
October	Wave motion and ultrasonic waves	Transverse wave and standing wave on the string. Normal modes of vibration Phase velocity and Group velocity. Plane and spherical waves. Piezoelectric effect .Production of ultrasonic waves by piezoelectric generator. Detection and Properties of ultrasonic waves and its application.
October /November.	Viscosity.	Poiseuille's formula and experimental determ of coefficient of viscosity. Variation of n with temp. Poiseuille's mehod. Rotation Viscometer.Searles Viscometer.
November.	Sound and Acoustic of buildings.	Transducer and and their characteristics. Moving coil loudspeaker. Reverberation time Sabine's reverberation time formula. Requirements of good acoustics.

Class- B.Sc.3 (Phy.)P. No.- IX and XI (Sem. I) and P.No.XIII (Sem. II) CBCS.

Month	Topic /Unit	Subtopic Completed.
July	Introduction to syllabus	About D.E.
August	Partial differential equation . Frobenious method and Special functions	Introduction to differential equation .Method of separation of variables for solving second order differential equation. Solution of Laplace equation and wave equation. Singular point of 2'nd order diff.eq'n.Legendre and Bessel diff.eq'n.
September	Some special integrals and Complex analysis.	Gamma function and properties . Beta function and properties. Relation between beta and gamma function. Error function. Complex number and their graphical representation. Equal complex number. Addition , subtraction multiplication and division of complex number by geometry. Types of complex number s Square root of complex number Log function. Euler formula D' movier theorem . Cauchy- Riemann condition.
Octombar	Special theory of relativity.	Inertial and non inertial frame of reference . Galilean transformation equation. Michelson Morley experiment. Postulate of special theory of relativity. Lorentz transformation equation. Relative addition of velocities. Length contraction. Time dilation Mass energy relation.
Oct./Nov.	Lagrangian formulation and techniques of calculation of variation.	Constraints.D'Alembert's principal Lagrange's equation and application of Lagrange's equation. Hamilton's principal Lagrange's eqation from Hamilton's principle Geodesic.Branchistochrone problem.
November	Charged particles dynamics. (Sem.1 end).	Poisons and Laplace's equation.Physical significance . Laplace equation in one dimension and its solution. Motion of charged particle in in uniform electric field **E** magnetic field **B** Crossed uniform electric field **E** and magnetic field **B.**
Nov./Decm.	General properties of nuclei and nuclear model. (Sem.2 start.).	Constituents of nucleus and their intrinsic properties. Size, mass charge density Binding energy. Average binding energy.Its variation with mass number . Liquid drop model . Semi empirical mass formula Magic number.
January	Nuclear Detectors.	G-M counter -Construction and Working . Dead time and recovery time. Scintillation detector- principle , construction and working .Wilson cloud chamber. Semiconductor detectors.Crenkov radiation and detector
Feb./ March	Particle Accelerators	Need of accelerator. Cyclotron - Construction working , theory and limitation . Phase stable orbit . Synchrocyclotron - construction and working. Electrons Synchrotron. Proton synchrotron. Betatron - construction and working and condition Expression for energy gain.
April	Particle Physics.	Particle interaction. Classification of elementary particles. Symmetries and conservation laws- energy momentum, angular momentum and Parity Barium number Lepton number Concept of quark model.
May	University examination	

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Annual Teaching Plan – 2023-24

Teacher – Dr. S. S. Shendage

B.Sc. I, Sem – II, Physics Paper – III (NEP)

(Electricity and Magnetism - I)

Month	Topic/Unit	Subtopic planned
Nov	Vector Analysis	Introduction
Dec/Jan	Vector Analysis	Syllabus discussion, Introduction, Del operator, Gradient of scalar field, Divergence of vector field, The curl of vector field, Line, surface and volume integrals of vector fields, Gauss-divergence theorem, Physical significance of Gauss divergence theorem, Stoke's theorem.
Feb	Electrostatics	Introduction, 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,
Mar	Electrostatics	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.
April/May	Electrostatics Exam	Dielectric medium, polarization, Displacement vector, Gauss's theorem in dielectrics, parallel plate capacitor completely filled with dielectric.

B.Sc. II, Sem – III, Physics paper – V (NEP)

(Thermal Physics and Statistical Mechanics - I)

Month	Topic/Unit	Subtopic planned
July	Syllabus	Admission process, Syllabus discussion

Aug	Kinetic Theory of Gases and Thermometry	Introduction, Mean free path, Expressions for Mean Free Path and Molecular Diameter, Corrections applied by Claussius and Maxwell, Transport phenomena, Coefficient of viscosity, conduction and diffusion of gas
Sept	Kinetic Theory of Gases and Thermometry	Law of equipartition of energy, application of law of equipartition of energy to specific heat of gases, principles of thermometry, temperature on mercury in glass scale, temperature on platinum-resistance thermometer, temperature on constant-volume hydrogen scale, Mercury thermometer, Thermocouple, Thermocouple as thermometer, Platinum resistance thermometer, Thermistor as thermometer, examples.
Oct	Law of Thermodynamics	Introduction, Thermodynamic system and thermodynamic variables, equation of state, Thermodynamic equilibrium, Zeroth law of thermodynamics, Internal energy, First law of thermodynamics, Conversion of heat into work, specific heats of gases Cp and Cv, Applications of first law of thermodynamics.
Oct/Nov	Law of Thermodynamics	Work done during isothermal and adiabatic processes, Reversible and irreversible processes, second law of thermodynamics, Carnot's heat engine and Carnot's cycle, Carnot's theorem, Entropy, Physical significance of entropy, entropy changes in reversible and irreversible processes, third law of thermodynamics, examples.

B.Sc. III, Sem – V, Physics paper – XII (CBCS)

(Digital and Analog Circuits and Instrumentation)

Month	Topic/Unit	Subtopic planned
July	Syllabus discussion	Syllabus discussion
Aug	Cathode Ray Oscilloscope	Introduction, principle, construction and working of CRT, block diagram of CRO, uses of CRO (measurement of AC, DC voltage, Lissajeous figures, periodic time and frequency

		measurement).
	Oscillator	Introduction, Types of wave forms, Oscillations from tank circuit, Barkhausen's criterion for sustained oscillations, phase shift oscillator, Colpitt's oscillator, Crystal oscillator.
Sept	Transistor Amplifier	Single stage CE transistor amplifier, Dc and AC equivalent circuits, load line analysis.
Sept/Oct	Operational Amplifier and Timmer	Introduction, Differential amplifier and its types, comparison between normal and differential amplifier, qualitative explanation of common mode and differential mode gains and CMRR, Op-Amp symbol, block diagram of Op-Amp, Op-Amp parameters – input offset current, input offset voltage, input bias current, slew rate, input impedance, output impedance, open loop gain, close loop gain, band width, characteristics of ideal Op-Amp, necessity of negative feedback in Op-Amp, inverting amplifier, Op-Amp as a differentiator and integrator
Oct/Nov	Digital Electronics	Review of basic logic gates, study of NAND, NOR, EX-OR and Ex-NOR gates, De-Morgan's theorems, NAND and NOR as universal gates, R-S flip flop, J-K flip-flop, half adder, full adder and parallel binary adder.

B.Sc. III, Sem – VI, Physics paper – XIV

(Solid State Physics – P - XIV)

Month	Topic/Unit	Subtopic planned
Nov/Dec	Crystal Structure	Introduction, Solids: Amorphous, poly-crystalline and crystalline materials, lattice, basis, Unit cell-primitive and non-primitive, Bravais lattices in two and three dimensions, symmetry elements of cubic system, Miller indices, interplaner spacing, simple crystal structures – cubic (SC, BCC, FCC) and HCP.
	X-Ray Diffraction by	Reciprocal lattice and its properties, Diffraction of X-rays by crystals, Ewald construction and Bragg's law in reciprocal

Jan	Crystals	lattice, Brillouin zone, Experimental methods in X-ray diffraction, Analysis of cubic crystals by powder method.
Feb	Magnetic Properties of Matter	Introduction, Classical Langevin theory of diamagnetic materials, Classical Langevin theory of paramagnetic materials, Quantum mechanical treatment of paramagnetism, Curie law, Weiss theory of ferromagnetism, ferromagnetic domains, Explanation of B_H curve, Hysteresis and energy loss
Mar/April	Elementary band theory of solids	Introduction, Concept of density states, Bloch theorem, Kronig-Penney 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.
May	Revision	Revision, Exam

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DEPARTMENT OF PHYSICS

Annual Teaching Plan

Year 2023-2024

Mr. Sagar Sampatrao Shinde

Month	Class/ Paper	Unit/ Topic/ Article
July 23	B.Sc. I	Introduction of Syllabus of Paper I, Mechanics II – Gravitation, Oscillation, Elasticity and Suface tension
	B.Sc. II	---
	B.Sc. III	Introduction of Syllabus of Paper XI, Topic : Charged Particle Dynamics: Introduction , Poissons and Laplaces Eqns
August 23	B.Sc. I	Introduction of Syllabus of Paper I, Mechanics I, Conservation Theorems and Rotational motion. Conservation theorem for linear momentum and angular momentum of particle.
	B.Sc. II	.....
	B.Sc. III	Charged Particle Dynamics: Physical Significance of Poissons and Laplaces Eqns, Laplaces eqn in one dimensions and its solutions, motion of charged particle in uniform electric field.
September 23	B.Sc. I	Work Energy theorem, Conservation theorem for energy of a particle, Centre of mass , Conservation theorem for Energy of a particle. Practical set 1
	B.Sc. II	-----
	B.Sc. III	motion of charged particle in uniform Magnetic field, motion of charged particle in Crossed uniform and constant electric and magnetic fields.
October 23	B.Sc. I	Topic II : Rotational Motion, Angular velocity and momentum, torque, K.E. of rotation ,moment of Inertia, MI of spherical shell about its diameter, MI of solid cylinder about its axis of symmetry Practical set 1 &2
	B.Sc. II	---
	B.Sc. III	Topic II: Special Theory of Relativity—Frames of

		reference and its types , Galilean Transformations, Michelson morley experiment, postulates of theory of relativity., Lorentz transformation eqn, time dilation, relativistic addn of velocities, variation of mass with velocity, mass energy equivalence relation
November 23	B.Sc. I	Paper II Oscillation: SHM, Differential eqn of SHM, KE & PE,Total Energy , Damped oscillations, forced osciilations. Practical Set 2
	B.Sc. II	---
	B.Sc. III	University Exam
Dipawali Vacation 12/11/23 to 23/11/23		
December 23	B.Sc. I	---- Practical Set II
	B.Sc. II	Introduction of Syllabus of Paper VII--- Unit I Thermodynamic Potential- Enthalpy, Gibbs Function, Helmholtz and internal Energy function, Maxwells thermodynamical relations
	B.Sc. III	Introduction of Syllabus of Paper XVI: Energy Studies And Material Science. Unit II : Superconductivity: Introduction , Idea of superconductivity, critical temperature, critical ,magnetic field, meissner effect, type1 and2 superconductors
January 24	B.Sc. I	--- Practical Set 3
	B.Sc. II	Joule Thomsons effect, clausius clapeyron Eqn , Expression for $C_p - C_v$ and C_p / C_v , TdS eqns.
	B.Sc. III	London Eqn and Penetration depth, Isotope effect, application of magnetic levitation
February 24	B.Sc. I	--- Practical Set 3
	B.Sc. II	Theory of Radiation: Introduction , Black body radiation and its importance, Concept of Energy Density,
	B.Sc. III	Topic II: Nanotechnology—Introduction of Nanoscience and Nanotechnology, length scales to nano science nano structures 1D,2D and 3D nanostructures, size effect in nanosystem, quantum confinement
March 24	B.Sc. I	---- Practical Set IV
	B.Sc. II	Derivation of Plancks law , Deduction of wien's Distribution law, Rayleigh-Jeans law
	B.Sc. III	Synthesis of nano structured materials, photolithio graphy ,ball miling, nucleation and growth, applications

		of nanotechnology.
April 24	B.Sc. I	---Practical Exam
	B.Sc. II	Stephan Boltzmann law And wien's displacement law from Plancks law
	B.Sc. III	Theory Exam
May 24	B.Sc. I	Theory Exam
	B.Sc. II	Theory Exam
	B.Sc. III	----

SShinde

(Mr. Sagar S. Shinde)

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Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

DEPARTMENT OF PHYSICS

Annual Teaching Plan

Year 2023-2024

Mr. Raj Prakash Hasabe

Month	Class/ Paper	Unit/ Topic/ Article
August 23	B.Sc. I	Introduction of Syllabus of Paper I, Mechanics I, Vectors – Scalar and Vector, Vector Addition
	B.Sc. II	.....
	B.Sc. III	Introduction of Syllabus of Paper XI
September 23	B.Sc. I	Properties Of Vectors, Scalar Product , Vector Product, Scalar triple product its physical significance, Vectror Triple Product and its Physical Significance Practical set 1
	B.Sc. II	-----
	B.Sc. III	Lagrangian Formulation--- Co- ordiante system, Constraints , Degrees of Freedom, Generalized Coordinates, D' Alemberts principle, Lagrangian Equation from D'Alembert, Applications Langrange Equation
October 23	B.Sc. I	Ordinary Differential Equation—Degree and Order of differential equations, 1st order and 2nd order Differential Equations and Examples Practical set 1 &2
	B.Sc. II	---
	B.Sc. III	Problems on Lagrangian Applications Topic II Techniques of Calculus of Variation— Hamiltons Principle, Deduction Of Hamilton Principle from D Alemberts Principle.
November 23	B.Sc. I	Paper II Gravitation – Introduction, Newtons Law of Gravitation, Keplers Laws , Satellites, Applications Of Satellite Practical Set 2
	B.Sc. II	---
	B.Sc. III	University Exam

Dipawali Vacation 12/11/23 to 23/11/23		
December 23	B.Sc. I	---- Practical Set II
	B.Sc. II	Introduction of Syllabus of Paper VII--- Unit II Classical Statistics –Phase Space, Microstate and macrostate
	B.Sc. III	Introduction of Syllabus of Paper XVI: Energy Studies And Material Science. Energy and Wind Energy—Forms of Energy, Classification of Energy resources, Energy Demands, Wind Energy.
January 24	B.Sc. I	--- Practical Set 3
	B.Sc. II	Priory probability, Thermodynamic Probability, Probability Distribution
	B.Sc. III	Wind Power Density, Efficiency Factor of wind turbine, types of wind turbine generator unit, Horizontal axis type wind turbine Generator unit.
February 24	B.Sc. I	--- Practical Set 3
	B.Sc. II	M.B Distribution law, Evaluation of constants α and β, Entropy and Thermodynamic Probability.
	B.Sc. III	Topic II: Solar Energy—Solar energy Spectrum, Photovoltaic route, Solar constant, Clarity index, Soalr insulation, Solar Photovoltaic system, Solar PV panel
March 24	B.Sc. I	---- Practical Set IV
	B.Sc. II	Topic II: Quantum Statistics—Bose Einstein distribution law, Photon gas, electron gas
	B.Sc. III	Topic III: Biomass Energy—origin of biomass, Biomass energy resourses, Biomass conversion process.
April 24	B.Sc. I	---Practical Exam
	B.Sc. II	Femi-dirac Distribution law, Comparison of MB, BE and FD Statistics
	B.Sc. III	Theory Exam
May 24	B.Sc. I	Theory Exam
	B.Sc. II	Theory Exam
	B.Sc. III	----

(Raj P. Hasabe)

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Botany Department

P. V. P. Mahavidyalaya, Kavathe Mahankal

Teaching Plan 2022-23

TEACHER NAME: Prof. T.G. Patil

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. II: DSC-14A

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	August	Theory	**Unit 1** **Algae I 1) General outline of plant kingdom** (Cryptogams and phanerogams) II- (General characters of algae classification as per G.M.Smith 1955)
		Practical	1) Study of forms of Bacteria 2) Study of Nostoc.
2	September	Theory	III- Economic importance's IV- Life Cycle of following types
		Practical	3) Study of *Spirogyra.* 4) Study of *Mucor.*
3	October	Theory	
		Practical	5) Study of *Penicillium*
4	November	Theory	**Unit – 2 Morphology and Anatomy.** 2-b.) Life cycle of following type. Gnetopsida – *Gnetum.*
5	January	Practical	Study of *Gnetum.*
6	February	Practical	**Unit 1 – Bryophytes** 1-a) General Characters, Clash and Economic Importance. **Unit – 2.1Pteridophytes.** 1-b.) General Characters, classification and life cycle of following types. a) Lycopsida – *Selaginella*, Hetrospory and seed habit

7	March		**Unit – 2.2 Gymnosperms** 2-I) General Characters, Clash as per spare-1965, up to classes Economic Importance of Gymnosperms.

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Deparment of Botany
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Botany Department

P. V. P. Mahavidyalaya, Kavathe Mahankal

Teaching Plan 2022-23

TEACHER NAME: Prof. T.G. Patil

CLASS: B. SC. II **SEMESTER: III-IV**

PAPER NO. V: DSC-C- 13.

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	August	Theory	**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.
2	September	Theory	**1.a. Organization of Flower.** 1.3. Structure of typical gynoecium, Structure of typical ovule, Types of Ovules.
3	October	Theory	**1.b. Pollination and Fertilization.** 1.4. Definition, Types mechanism in Anemophily (Zea mays) Entomophily (Calotropis) and Hydrophily (Vallisneria) 1.5. Microsporogenesis, Pollen germination & Male gametophyte.
4	November	Theory	**1.b. Pollination and Fertilization.** 1.6. Megasporogenesis, structure of embryo sac, monosporic (Polygonum) and Bisporic (Allium) Female gametophyte. 1.7. Fertilization- Double fertilization & triple fusion Significance of double fertilization.
5	January	Theory	**Embryo and Endosperm Developments Poly Embryony & Apomixis.** **2.a. Embryo & Endosperm Development.** 2.1. Structure & development of embryo in Monocotyledons. 2.2. Structure & development of embryo in Dicotyledons. 2.3. Development of endosperm – Nuclear,

			Helobial & Cellular.
		Practical	1) Structure of Stomata & stomatal density. 2) Stomatal & Cuticulor Transpiration by $cocl_2$ paper. 3) Deficiency Symptoms P, K, Ca, Mg. 4) Estimation of Chlorophyll.
6	February	Theory	**2-b. Polyembryony & Apomisix.** **2.4. Polyembryony : Inroduction.** Types of polyembryony True Polyembryony Causes of polyembryony, Significance of polyembryony.
		Practical	5) Paper Chromatography. 6) Kranz leaf Anatomy in C_4 Plants.
7	March	Theory	**Polyembryony and Apomixis** **2.5. Apomixis : Introduction** Causes of Apomixis & Types : Gametophytic and sporophytic, significance of apomixis.
		Practical	7) Estimation of TAN Value in CAM Plants. 8) Analysis of Vegetative Growth. 9) Effect of Different Conc. of Auxins (IAA) on seed germination.
8	April	Theory	**1-a. Enzymes** 1.1. Introduction 1.2. Classification & Nomenclature of enzymes. 1.3. Structure and Properties of Enzymes. 1.4. Mechanism of enzyme action – Lock & Key hypothesis and Induced fit hypothesis. 1.5. Factors affecting enzyme activity Temperature & PH. 1.6. Enzyme inhibition.
9.	May	Theory	**1-b. Nitrogen Metabolism** 1.7. Introduction. 1.8. Biological Nitrogen fixation Symbiotic and asymbiotic. 1.9. Mechanism of Nitrogen fixation. 1.10. Nitrate reduction. 1.11. Ammonia Assimilation. 1.12. Nif genes.

		Theory	**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.
10	June	Theory	**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 2.12. Factors affecting seed germination. 2.13. Biogeochemical Changes during seed germination.

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Department of Botany
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Botany Department

P. V. P. Mahavidyalaya, Kavathe Mahankal

Teaching Plan 2022-23

TEACHER NAME: Prof. T.G. Patil

CLASS: B. SC. III **SEMESTER: V/IV**

PAPER NO. V: DSC-E- 26.

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	August	Theory	**Unit – 1 Microbiology.** 1.1. Microorganisms 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 L Transformation and Transduction.
		Practical	1) Genetic Example on Linkage. 2) Genetic Examples on Crossing over.
2	September	Theory	**Unit – 2 Industrial Microbiology.** 2.1. Applications of microorganisms with reference to synthesis of Antibiotics (Penicillin) Organic Acids (Lactic Acid) Alcohol (Ethyl Alcohol) 2.2. Biopesticides – Concept, Types & Significance.
		Practical	3) Genetic Examples on Polygene inheritance. 4) Determination of Chromosome count in PMCS in (Allium / Cynoetis) 5) Detection of meiotic anomalies in chromosomes in Rheo. 6) Preparation of Karyotypes – Ideograms by using photographs.
3	October	Theory	**Unit – 3 Plant Pathology** 3.1. Classification of plant diseases on the basis of pathogens & symptoms. 3.2. Transmission of Pathogen – Air borne, seed borne, and soil borne. 3.3. Prevention & Control : Physical, Chemical

	November		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)
		Practical	7) Methods of Emasculation. 8) Breeding techniques in - a) Malvaceae b) Fabaceae c) Poaceae. 9) Mounting of Floral parts.
4	January	Theory	**Unit – 4 Mushroom Technology** 4.1. History Types of mushrooms, Edible (Non poisonous) & in edible. (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.
		Practical	13) Study of Botanical Name, Morphology, parts used & Economic Importance of Clove & Black pepper. 14) Study of Botanical Name, Morphology,
	February March		Parts used & Economic Importance of Groundnut. 15) Study of Botanical Name, Morphology, Parts used & Economic Importance of Groundnut. 16) Measures of central tendency of given data. 17) Study of frequency distribution & its graphical representation.
	April		**3. Storage :** Short Term (Referigeration) Long

			Term Storage (Canning, Pickles, Papads. Drying in salt solutions. **4.4. Values of mushroom Nutrition :** Proteins, amino acids, mineral elements nutrition – Carbohydrates, Crude fiber content – Vitamins.
	May		10) Study of world map to show Vavilov's centres of origin of Cultivated plants. 11) Study of Botanical Name, Morphology Parts used and Economic importance of wheat. 12) Study of Botanical Name, morphology parts used and Economic importance of Gram & Soyabean.

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Teaching Plan 2022-23

TEACHER NAME: DR. B. T. JADHAV

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. I: DSC-13A: MICROBES, ALGAE AND BIOFERTILIZERS

PAPER NO. II: DSC-14A: CELL BIOLOGY AND ANALYTICAL TECHNIQUES

PAPER NO. I: DSC-14B: ARCHEGONIATE

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	
		Practical	
2	August	Theory	**1 MICROBES** 1.1- VIRUSES 1) Discovery, General characteristics
		Practical	
3	September	Theory	II) Structures of viruses
		Practical	
4	October	Theory	III) Types of viruses IV)Economic importance
		Practical	
5	November	Theory	PAPER-II: 1.1- Cell as a structural and functional unit of life. i) Introduction and definition ii) Cell as a biochemical entity
		Practical	
6	December	Theory	iii) structure and difference between prokaryotic and eukaryotic cell. iv) Plant cell wall.
		Practical	
7	January	Theory	PAPER IV 2.1-PTERIDOPHYTES i) general characters

			ii)Classification
		Practical	
8	February	Theory	iii) Ecological and economic importance iv) Morphology and anatomy and life cycle v) a) Selaginella b) Heterospory and seed habitat
		Practical	
9	March	Theory	2.2-GYMNOSPERMS i) general characters ii)Classification iii) Ecological and economic importance iv) Morphology and anatomy and life cycle
		Practical	
10	April	Theory	Gnetum
11	May	Theory	v) Connecting link between pteridophytess and Angiosperms

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Teaching Plan 2022-23

TEACHER NAME: DR. B. T. JADHAV

CLASS: B. SC. II **SEMESTER: III/IV**

PAPER NO. V: DCS C13: EMBRYOLOGY OF ANGIOSPERMS

PAPER NO. VI: DCS C14: PLANT PHYSIOLOGY

PAPER NO. VII: PTERIDOPHYTES, GYMNOSPERMS, ANGIOSPERM AND ANATOMY

PAPER NO. VIII: CYTOGENETICS

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	June	Theory	
		Practical	
2	July	Theory	
		Practical	
3	August	Theory	**Unit 2a: Embryo and endosperm development** 2.1: structure and development of embryo in monocotyledons. 2.2: structure and development of embryo in dicotyledons.
		Practical	1)Study of shoot and root apex 2) Study of simple tissue
4	September	Theory	2.3: Development of endosperm, Types of endosperms
		Practical	3) Study of complex tissue 4) Study of dicot and monocot root 5) Study of dicot and monocot stem,
5	October	Theory	2.a: PHOTOSYNTHESIS 2.1: Introduction 2.3:photosynthetic pigments
		Practical	6) Study of Normal secondary growth in dicot stem and root

			7) Study of Anomalous secondary growth in ***Bignonia*** 8) Study of Anomalous secondary growth in ***Dracaena*** 9) Study of Periderm and Lenticel
6	November	Theory	2.3: mechanism of photosynthesis 2.4:Significance of photosynthesis **PAPER: VII** Unit 4: Anatomy 4.1 Primary Structure of monocot and dicot root stem and leaf.
		Practical	10)Double stained preperation 11) Study of porous and non porous wood 12) Maceration technique 13) Study of Epidermal tissue system Secretary tissue syste
7	December	Theory	
		Practical	14) Study of Secretary tissue system 15) Study of Mechanical tissue system 16) Study of anatomical peculiarities 17) Study of excretory product
8	January	Theory	
		Practical	
9	February	Theory	**PAPER: IV** 2.a: Anatomy 2.1 Primary Structure of monocot and dicot root stem and leaf.
		Practical	18) Determination of rate of respiration 19) Breaking of seed dormancy 20) Study of effect of ph on enzyme 21) Study of effect temp. on enzyme
10	March	Theory	2.2 Normal secondary growth in dicot stem and root. 2.3 Study of Anomalous secondary growth in ***Bignonia*** And ***Dracaena*** 2.4 Periderm and Lenticel
		Practical	22)Janus green B 23) Fermentation

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Teaching Plan 2022-23

TEACHER NAME: SHRI. S. M. SABALE

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. II: DSC-14A: CELL BIOLOGY AND ANALYTICAL TECHNIQUES

PAPER NO. I: DSC-14B: ARCHEGONIATE

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	September	Theory	Paper II Unit I- Cell Biology 1.2 Cell organelle
		Practical	
2	October	Theory	Paper II Unit I- Cell Biology 1.2 Cell Membrane
		Practical	
3	November	Theory	Paper II Unit I- Cell Biology 1.2 Cell Division – Mitosis
		Practical	
4	December	Theory	Paper II Unit I- Cell Biology 1.2 Cell Division – Meiosis
		Practical	
5	January	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.1 Phytopathology – Intro, Characters, Viral Disease
		Practical	
6	February	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.1 Phytopathology – Bacterial and Fungal Disease
		Practical	22) Study of different stages of mitosis
7	March	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.1 Phytopathology – Mycoplasma Disease
		Practical	23) Study of different stages of meiosis
8	April	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation

			2.2 Mushroom Cultivation –Intro and History
9	May	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.2 Mushroom Cultivation – Cultivation, Commercial importance

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Teaching Plan 2022-23

TEACHER NAME: SHRI. S. M. SABALE

CLASS: B. SC. II **SEMESTER: III/IV**

PAPER NO. VIII: PLANT METABOLISM

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	September	Theory	
		Practical	21) Paper Chromatography
2	October	Theory	
		Practical	22) Janus Green B technique
3	November	Theory	
		Practical	12) Maceration technique
4	December	Theory	
		Practical	25) Thin Layer Chromatography
5	January	Theory	
		Practical	
6	February	Theory	PAPER: VIII 1.a: Enzymes – 1.1 Introduction 1.2 Classification and Nomenclature 1.3 Structure and Properties of Enzyme 1.4 Mechanism
		Practical	18) Determination of rate of respiration
7	March	Theory	1.5 Factors affecting on Enzyme 1.6 Enzyme Inhibition 1.b: Nitrogen Metabolism 1.7 Introduction 1.8 Nitrogen Fixation 1.9 Nitrate Reduction
		Practical	14) Biochemical tests
8	April		1.10 Ammonia Assimilation 1.11 Nif genes 2.a: Respiration 2.1 Introduction 2.2 Types 2.3 Glycolysis
9	May		2.4 Acetyl CoA 2.5 TCA cycl 2.6 ETS 2.7 Fermentation

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TEACHER NAME: SHRI. S. M. SABALE

CLASS: B. SC. III **SEMESTER: V/VI**

PAPER NO. X: MICROBIOLOGY

PAPER NO. XI: CYTOLOGY AND RESEARCH TECHNIQUES

PAPER NO. XII: HORTICULTURE AND GARDENING

PAPER NO. XIII: BIOCHEMISTRY AND MOLECULAR BIOLOGY

PAPER NO. XVI: BIOFERTILIZERS AND HERBAL TECHNOLOGY

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	October	Theory	Paper XI – Cytology Unit 1- Cell as a unit of life 1.1 Intro 1.2 Cell cycle 1.3 Cell division Unit 2- Cell organelle 2.1 Nucleus 2.2 Mitochondria 2.3 Chloroplast 2.4 Ribosome Unit 3- Subcellular structures and cell membrane 3.1 ER, Golgi body, Lysosome 3.2 Peroxisomes and Glyoxisomes 3.4 Cell membrane 3.5 Cell membrane types
		Practical	9) Mounting of Floral Parts 10) Vavilovs centres of origin of cultivated plants 4) Study of different types of Stains 1) Prokaryotic cell and Eukaryotic cell 15) Herbal preparation
2	November	Theory	Paper XII- Horticulture and Gardening Unit 4- Lanscape Gardening 4.1 Defination, Scope, Objectives 4.2 Indoor Garden • Indoor plants • Bottle garden • Dish Garden • Hanging Basket • Bonsai • Vertical garden 4.3 Outdoor Garden

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			• Lawn • Rockery • Terrace garden • Water garden • Greenhouse • Polyhouse 4.4 Important Aesthetic Gardens
		Practical	4) Cell structure of *Onion, Hydrilla, Spirogyra* 7) Dialysis 8) DNA packaging in eukaryotes 10) Beer and Lamberts law 20) Phytochemical analysis
3	December	Theory	Paper X – Microbiology Unit 1 – Microbiology 1.1 Microorganisms 1.2 Methods in Microbiology 1.3 Recombination in Bacteria Unit 2 – Industrial Microbiology 2.1 Application and Synthesis 2.2 Biopesticides
		Practical	10) Isolation of plant genomic DNA 13) Application of biofertilizers 14) Organic manure 15) Drug adulteration
4	January	Theory	Paper XVI – Herbal Drug Technology Unit 4 – Pharmacognosy 4.1 Intro 4.2 Medicinal uses
		Practical	11) Calorimetric estimation of DNA 18) Mscroscopic study 8) Garden implements 9) Study of ornamental plants 5) Study of mitosis
5	February	Theory	4.3 Adulteration of Drugs 4.4 Plant Antioxidants
		Practical	10) Study of hedge and edge plants 11) Study of indoor plants 12) Qualitative test for sugar 13) Qualitative test for starch and cellulose 6) Study of meiosis
6	March	Theory	
		Practical	14) Qualitative test for proteins 15) Qualitative test for lipids 16) Paper chromatography 18) Thin layer chromatography 11) Permanent cytological slides

7	April	Theory	Paper XII – Biochemistry and Molecular Biology Unit 4- Nucleic Acids 4.1 Intro, Composition and Structure 4.2 DNA Model 4.3 Replication in Eukaryotes
		Practical	17) Fatty acid value 19) Isoelectric point of protein
8	May	Theory	4.4 RNA 4.5 Gene Expression

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TEACHER NAME: Shri.S.B.Patil

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. II: DSC-14A: CELL BIOLOGY AND ANALYTICAL TECHNIQUES

PAPER NO. I: DSC-14B: ARCHEGONIATE

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	
		Practical	
2	August	Theory	**1 MICROBES** 1) Discovery. General characteristics
		Practical	
3	September	Theory	
		Practical	
4	October	Theory	III) Types of viruses IV)Economic importance
		Practical	
5	November	Theory	PAPER-II: 1.1- Cell as a structural and functional unit of life. i) Introduction and definition ii) Cell as a biochemical entity
		Practical	
6	December	Theory	iii) structure and difference between prokaryotic and eukaryotic cell. iv) Plant cell wall.
		Practical	
7	January	Theory	PAPER IV 2.1-PTERIDOPHYTES i) general characters ii)Classification

		Practical	
8	February	Theory	iii) Ecological and economic importance iv) Morphology and anatomy and life cycle v) a) Selaginella b) Heterospory and seed habitat
		Practical	
9	March	Theory	2.2-GYMNOSPERMS i) general characters ii)Classification
		Practical	
10	April	Theory	Gnetum
11	May	Theory	v) Connecting link between pteridophytess and Angiosperms

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TEACHER NAME: Shri. S.B.Patil

CLASS: B. SC. II **SEMESTER: III/IV**

PAPER NO. VII: PTERIDOPHYTES, GYMNOSPERMS, ANGIOSPERM AND ANATOMY

PAPER NO. VIII: CYTOGENETICS

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	June	Theory	
		Practical	
2	July	Theory	
		Practical	
3	August	Theory	**Unit 2a: Embryo and endosperm development** 2.2: structure and development of embryo in dicotyledons.
		Practical	1)Study of shoot and root apex 2) Study of simple tissue
4	September	Theory	2.3: Development of endosperm, Types of endosperms
		Practical	3) Study of complex tissue 4) Study of dicot and monocot root 5) Study of dicot and monocot stem
5	October	Theory	
		Practical	6) Study of Normal secondary growth in dicot stem and root 7) Study of Anomalous secondary growth in ***Bignonia*** 8) Study of Anomalous secondary growth in ***Dracaena***

6	November	Theory	2.3: mechanism of photosynthesis 2.4:Significance of photosynthesis **PAPER: VII** Unit 4: Anatomy 4.1 Primary Structure of monocot and dicot root stem and leaf.
		Practical	10)Double stained preperation 11) Study of porous and non porous wood
7	December	Theory	
		Practical	13) Study of Secretary tissue system 14) Study of Mechanical tissue system 15) Study of anatomical peculiarities
8	January	Theory	
		Practical	
9	February	Theory	**PAPER: IV** 2.1 Primary Structure of monocot and dicot root stem and leaf.
		Practical	16) Determination of rate of respiration 17) Breaking of seed dormancy
10	March	Theory	2.3 Study of Anomalous secondary growth in ***Bignonia*** And ***Dracaena*** 2.4 Periderm and Lenticel
		Practical	19) Fermentation 20) TLC
11	April		2.5 Epidermal tissue system 2.6 Secretary tissue system
12	May		2.7 Mechanical tissue system

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Teaching Plan 2022-23

TEACHER NAME: Shri. S.B.Patil

CLASS: B. SC. III **SEMESTER: V/VI**

PAPER NO. XV: PLANT BIOTECHNOLOGY AND PALAEOBOTANY

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	October	Theory	**PAPER-IX** **Unit 4: Palaeobotany** 4.3 Study of following form of genera a) *Lyginopteris* b) *Enigmocarpon* 4.4 Application of Palaeobotany.
		Practical	1. Isolation of soil fungi 2. Study of different types of stains 3.Methodes of control of seed born diseases
2	November	Theory	**Unit:3 Chromosome structure and varation** 3.1 Chromosome structure 3.2 Multiple allelism 3.3 Quantitative inheritance 3.4 Maternal inheritance 3.5 Alteration in genetic make up
		Practical	6 & 7 Plant diseases 8 & 9 Mushroom cultivation
3	December	Theory	4.1) Introduction, Definition and plant breeding 4.2) Aims and Objectives of plant breeding 4.3) Methodes of plant Breeding
		Practical	

			10 Goldan rice
4	January	Theory	
		Practical	11Types of fossils 12 Lyginopteris 13 Enigmocarpon
5	February	Theory	2 2.6 PCR, DNA sequencing and conĉept of Gene bank
		Practical	20 Submission
6	March	Theory	**Unit 4: Palaeobotany** 4.1 General account, GTS, Process of Fossilization, Types of Fossils. 4.2 Study of following form of genera
		Practical	Gernal checking
7	April	Theory	**Unit 2: Recombinant DNA technology** 2.1 Introduction and Principles 2.2 Enzyme involved in DNA technology 2.3 Cloning vectors 2.4 Southern and Northern Blotting techniques
		Practical	14. Demonstration of Ganong's respirometer 15. Study of chart quadrate
8	January	Theory	Unit 3: Genetic Engineering 5.5 Application of plant biotechnology
		Practical	16. Titrimetric estimation of free CO_2

9	Feburary	Theory	**Unit 3: Plant Tissue Culture** 3.1 Principles and Terminologies, Laboratory requirement, Culture media, Totipotency and cellular differentiation. 3.2 Micro propagation 3.3 Embryogenesis 3.4 Soma clonal Variations
		Practical	17.Field visit
10	March	Theory	-

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TEACHER NAME: Shri. T.G. Patil

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. II: DSC-14A

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	August	Theory	**Unit 1** **Algae I 1) General outline of plant kingdom** (Cryptogams and phanerogams) II- (General characters of algae classification as per G.M.Smith 1955)
		Practical	1) Study of forms of Bacteria 2) Study of Nostoc.
2	September	Theory	III- Economic importance's IV- Life Cycle of following types .
		Practical	3) Study of *Spirogyra.* 4) Study of *Mucor.*
3	October	Theory	
		Practical	5) Study of *Penicillium*
4	November	Theory	**Unit – 2 Morphology and Anatomy.** 2-b.) Life cycle of following type. Gnetopsida – *Gnetum.*
5	January	Practical	Study of *Gnetum.*
6	February	Practical	**Unit 1 – Bryophytes** 1-a) General Characters, Clash and Economic Importance. **Unit – 2.1Pteridophytes.** 1-b.) General Characters, classification and life cycle of following types. a) Lycopsida – *Selaginella.* Hetrospory and seed habit

7	March		**Unit – 2.2 Gymnosperms** 2-I) General Characters, Clash as per spare-1965, up to classes Economic Importance of Gymnosperms.

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TEACHER NAME: Shri.T.G.Patil

CLASS: B. SC. II **SEMESTER: III/IV**

PAPER NO. V: DSC-13

PAPER NO.VII : DSC.D.13

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	2.a. Structure and development of plant body. 2.1- Anatomy Introduction to internal organization of plant body.
		Practical	
2	August	Theory	2.2- Organization of shoot apex apical cell theory. 2.3-Organization of root apex quiescent center concept.
		Practical	1. Study of meristem (RAM & SAM)
3	September	Theory	2.6-Primary structure of root stem and leaf (Dicot & Monocot)
		Practical	Primary structure of root stem and leaf (Dicot & Monocot)
4	October	Theory	1.Preparation of double stained permanent slide.
		Practical	
5	November	Theory	Maceration technique
		Practical	
6	December	Theory	2.a. Origin of cultivated plant. 2.1. Concept of content of origin their important with reference to vavilovs work.
		Practical	1. Preparation of Nachni satva. 2. Medicinal plant Neemnad Bay leaf.(Tamalpatra)
7	January	Theory	2.3. Botanical name,origin,morphology,.plant part used and economic importance of a) Millets- Finger millet

			b) Spices-Clove c) Condiments- Clove d) Beverages-Coffee e) Oil yielding –Soyabean f) Medicinal -Neem
		Practical	1. Beverages-Coffee 2. Oil yielding –Soyabean 3. Preparation of Heena dye and Aloe gel
8	February	Theory	g) Dyes-Heena h) Cosmetics-Aloe i) Timber-Teak j) Fiber- Cotton
		Practical	1.Timber-Teak& Rubber fig
9	March	Theory	
		Practical	1.Fiber yielding plant –Cotton 2.Demostration of fermentation
10	April	Practical	1.Grafting –Whip 2.Potting & Repotting 3. Bonsai 4. Garden implements
11	May	Practical	1. Practical Repetition

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TEACHER NAME: Shri.T.G.Patil

CLASS: B. SC. III **SEMESTER: V/IV**

PAPER NO. V: DSC-E- 26.

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	August	Theory	**Unit – 1 Microbiology.** 1.1. Microorganisms 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 L Transformation and Transduction.
		Practical	1) Genetic Example on Linkage. 2) Genetic Examples on Crossing over.
2	September	Theory	**Unit – 2 Industrial Microbiology.** 2.1. Applications of microorganisms with reference to synthesis of Antibiotics (Penicillin) Organic Acids (Lactic Acid) Alcohol (Ethyl Alcohol) 2.2. Biopesticides – Concept, Types & Significance.
		Practical	3) Genetic Examples on Polygene inheritance. 4) Determination of Chromosome count in PMCS in (Allium / Cynoetis) 5) Detection of meiotic anomalies in chromosomes in Rheo. 6) Preparation of Karyotypes – Ideograms by using photographs.
3	October	Theory	**Unit – 3 Plant Pathology** 3.1. Classification of plant diseases on the basis of pathogens & symptoms. 3.2. Transmission of Pathogen – Air borne, seed borne, and soil borne.

	November		3.3. Prevention & 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)
		Practical	7) Methods of Emasculation. 8) Breeding techniques in - a) Malvaceae b) Fabaceae c) Poaceae. 9) Mounting of Floral parts.
4	January	Theory	**Unit – 4 Mushroom Technology** 4.1. History Types of mushrooms, Edible (Non poisonous) & in edible. (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.
		Practical	13) Study of Botanical Name, Morphology, parts used & Economic Importance of Clove & Black pepper. 14) Study of Botanical Name, Morphology,
	February March		Parts used & Economic Importance of Groundnut. 15) Study of Botanical Name, Morphology, Parts used & Economic Importance of Groundnut. 16) Measures of central tendency of given data. 17) Study of frequency distribution & its graphical representation.

	April		**3. Storage :** Short Term (Referigeration) Long Term Storage (Canning, Pickles, Papads. Drying in salt solutions. **4.4. Values of mushroom.Nutrition :** Proteins, amino acids, mineral elements nutrition – Carbohydrates, Crude fiber content – Vitamins.
	May		10) Study of world map to show Vavilov's centres of origin of Cultivated plants. 11) Study of Botanical Name, Morphology Parts used and Economic importance of wheat. 12) Study of Botanical Name, morphology parts used and Economic importance of Gram & Soyabean.

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Teaching Plan 2023-24

TEACHER NAME: DR. B. T. JADHAV

SEMESTER: I/II

CLASS: B. SC. I

PAPER NO. I: DSC-13A: MICROBES, ALGAE AND BIOFERTILIZERS

PAPER NO. II: DSC-14A: CELL BIOLOGY AND ANALYTICAL TECHNIQUES

PAPER NO. I: DSC-14B: ARCHEGONIATE

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	
		Practical	
2	August	Theory	**1 MICROBES** 1.1- VIRUSES 1) Discovery, General characteristics
		Practical	
3	September	Theory	II) Structures of viruses
		Practical	
4	October	Theory	III) Types of viruses IV)Economic importance

		Practical	
5	November	Theory	PAPER-II: 1.1- Cell as a structural and functional unit of life. i) Introduction and definition ii) Cell as a biochemical entity
		Practical	
6	December	Theory	iii) structure and difference between prokaryotic and eukaryotic cell. iv) Plant cell wall.
		Practical	
7	January	Theory	PAPER IV 2.1-PTERIDOPHYTES i) general characters ii)Classification
		Practical	
8	February	Theory	iii) Ecological and economic importance iv) Morphology and anatomy and life cycle v) a) Selaginella b) Heterospory and seed habitat
		Practical	
9	March	Theory	2.2-GYMNOSPERMS i) general characters ii)Classification iii) Ecological and economic importance iv) Morphology and anatomy and life cycle

		Practical	
10	April	Theory	Gnetum
11	May	Theory	v) Connecting link between pteridophytess and Angiosperms

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Botany Department

P. V. P. Mahavidyalaya, Kavathe Mahankal

Teaching Plan 2023-24

TEACHER NAME: DR. B. T. JADHAV

CLASS: B. SC. II **SEMESTER: III/IV**

PAPER NO. VI: DCS C14: GENETICS AND MOLECULAR BIOLOGY

PAPER NO. VII: DCS C13: PLANT ECOLOGY AND ECONOMIC BOTANY

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	June	Theory	
		Practical	
2	July	Theory	
		Practical	
3	August	Theory	**Unit 1: Mendelism** 1.1) Introduction, Definition and basic terminologies 1.2) Principles of inheritance 1.3) Gene interaction
		Practical	7)Study of shoot and root apex 8) Study of simple tissue
4	September	Theory	**1.4 Linkage and recombination** Defination, linkage group,types, phases ,significance 1.5 Recombination, Definition, types, mechanism,

			significance
		Practical	8) Study of complex tissue 9) Study of dicot and monocot root 10) Study of dicot and monocot stem
5	October	Theory	1.6 **Chromosome structure and varation** 1.7 Chromosome structure 1.8 Alteration in genetic make-up-Structural variations
		Practical	11) Double stain
6	November	Theory	1.8-Nummerical varations **PAPER: VII**
		Practical	12) Maceration technique 13) Study of Mendals law 14) Genetic examples- Linkage 15) Genetic examples- Crossing over 16) & 17) Karyotype study
7	December	Theory	**Paper-VII** 1.Plant ecology 1a.Introduction to plant ecology 1.1 Basic concept, levels of organization 1.2 concepts and types of ecosystem 1.3Trophic organization
		Practical	19) Nuclic acid as a genetic material 20) determination of amino acid sequence

			21) Preperation of nuclear stain
8	January	Theory	1.4-Phytogeography 1.5-Soil
		Practical	22) Isolation of plant genomic DNA 23) Estimation of DNA 24) Estimation of RNA
9	February	Theory	1.6-Water
		Practical	25) Submission of herbarium
10	March	Theory	1.6-Water
		Practical	
11	April		
12	May		

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Teaching Plan 2023-24

TEACHER NAME: DR. B. T. JADHAV

CLASS: B. SC. III **SEMESTER: V/VI**

PAPER NO. IX: GENETICS AND PLANT BREEDING

PAPER NO. XVI: BIOSTATISTICS

PAPER NO. XV: PLANT BIOTECHNOLOGY AND PALAEOBOTANY

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	October	Theory	**PAPER-IX** **Unit 1: Mendelism** 1.1) Introduction, Definition and basic terminologies 1.2) Principles of inheritance 1.3) Gene interaction **Unit 4: Palaeobotany** 4.1 General account, GTS, Process of Fossilization, Types of Fossils. 4.2 GTS 4.3 Study of following form of genera a) *Lyginopteris* b) *Enigmocarpon* 4.4 Application of Palaeobotany.
		Practical	1. Preparation of cultural media 2. Methods of inoculation 3. Isolation of soil fungi 4. Study of different types of stains 5.Methodes of control of seed born diseases
2	November	Theory	**Unit:2 Linkage and recombination** 2.1Defination, linkage group,types, phases ,significance

			2.2 Recombination, Definition, types, mechanism, significance **Unit:3 Chromosome structure and varation** 3.1 Chromosome structure 3.2 Multiple allelism 3.3 Quantitative inheritance 3.4 Maternal inheritance 3.5 Alteration in genetic make up
		Practical	6 & 7 Plant diseases 8 & 9 Mushroom cultivation 10 Isolation of DNA 11Estimation of DNA 12 Plant tissue culture
3	December	Theory	**Unit:4 Plant Breeding** 4.1) Introduction, Definition and plant breeding 4.2) Aims and Objectives of plant breeding 4.3) Methodes of plant Breeding
		Practical	13 in vitro culture 14 Inoculation of ex plant 15 Isolation of protoplast 16 Goldan rice

4	January	Theory	**PAPER:XV- PLANT BIOTECHNOLOGY AND PALAEOBOTANY** **Unit 2: Recombinant DNA technology** 2.1 Introduction and Principles 2.2 Enzyme involved in DNA technology 2.3 Cloning vectors 2.4 Southern and Northern Blotting techniques
		Practical	17 Types of fossils 18 Lyginopteris 19 Enigmocarpon
5	February	Theory	2.5 DNA fingerprinting, Molecular DNA markers 2.6 PCR, DNA sequencing and concept of Gene bank
		Practical	20 Submission
6	March	Theory	**Unit 4: Palaeobotany** 4.1 General account, GTS, Process of Fossilization, Types of Fossils. 4.2 Study of following form of genera a) *Lyginopteris* b) *Enigmocarpon* 4.3Application of Palaeobotany.
		Practical	Gernal checking
7	April	Theory	**PAPER NO. XVI** **Unit 1: Nucleic Acid** 1.1 Introduction, composition and Structure. 1.2 DNA replication 1.3 gene expression **Unit 2: Recombinant DNA technology** 2.1 Introduction and Principles

			2.2 Enzyme involved in DNA technology 2.3 Cloning vectors 2.4 Southern and Northern Blotting techniques 2.5 DNA fingerprinting, Molecular DNA markers 2.6 PCR. DNA sequencing and concept of Gene bank
		Practical	21. Demonstration of Ganong's respirometer 22. Study of chart quadrate
8	January	Theory	Unit 3: Genetic Engineering 3.1 Introduction 3.2 Methods of gene transfer 3.3 Reporter gene 3.4Transgenic pants 5.5 Application of plant biotechnology
		Practical	23. Determination of DO 24. Titrimetric estimation of free CO_2
9	Feburary	Theory	**Unit 3: Plant Tissue Culture** 3.1 Principles and Terminologies, Laboratory requirement, Culture media, Totipotency and cellular differentiation. 3.2 Micro propagation 3.3 Embryogenesis

			3.4 Soma clonal Variations **Unit 4: Palaeobotany** 4.1 General account, GTS, Process of Fossilization, Types of Fossils. 4.2 Study of following form of genera a) *Lyginopteris* b) *Enigmocarpon* 4.3 Application of Palaeobotany.
		Practical	25. Analysis of Electric Conductivity, Temperature and PH of water samples 26.Field visit
10	March	Theory	-

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Botany Department

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Teaching Plan 2023-24



TEACHER NAME: SHRI. S. M. SABALE

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. I: DSC – 13A: MICROBES, ALGAE AND BIOFERTILIZERS

PAPER NO. II: DSC-14A: CELL BIOLOGY AND ANALYTICAL TECHNIQUES

PAPER NO. IV: DSC-14B: ARCHEGONIATE

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	Paper II Unit I- Cell Biology 1.2 Cell Membrane
		Practical	3) Forms of Bacteria
2	August	Theory	Paper I Unit I- Microbes 1.1- Viruses i) Discovery and General character ii) Structure of viruses – DNA viruses
		Practical	4) Gram staining technique of Bacteria
3	September	Theory	Paper I Unit I- Microbes 1.1- Viruses iii)Structure of viruses- RNA viruses iv) Economic importance
		Practical	2) Electron micrographs – T-phage
4	October	Theory	Paper I Unit I- Microbes 1.2 – Bacteria i) Discovery, General Characters ii) Cell structure iii) Forms of Bacteria iv) Nutrition
		Practical	22) Study of different stages of mitosis
5	November	Theory	Paper I Unit I- Microbes 1.2 – Bacteria v) Reproduction vi)Economic importance

6	December	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.1 Phytopathology – i) Intro, Characters, ii)Viral Disease
		Practical	23) Study of different stages of meiosis
7	January	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.1 Phytopathology iii) Bacterial disease iv) Fungal Disease
		Practical	Study of Plant disease
8	February	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.1 Phytopathology v) Mycoplasma Disease
9	March	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.2 Mushroom Cultivation i) Intro and History
10	April	Theory	Paper III Unit II- Phytopathology & Mushroom Cultivation 2.2 Mushroom Cultivation ii) Cultivation, Commercial importance

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Teaching Plan 2023-24



TEACHER NAME: SHRI. S. M. SABALE

CLASS: B. SC. II **SEMESTER: III/IV**

PAPER NO. VI: GENETICS AND MOLECULAR BIOLOGY

PAPER NO. VIII: PLANT PHISIOLOGY, NURSERY AND GARDENING TECHNIQUES

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	Paper VI Unit II- Molecular Biology 2.1 Nucleic acids: Carriers of Genetic Information i) Nucleic acids – DNA & RNA ii) DNA structure: Watson and Crick model
2	August	Theory	Paper VI Unit II- Molecular Biology 2.1 Nucleic acids: Carriers of Genetic Information ii) Forms of DNA : A, B, Z iii) RNA structure iv) Types of RNA: mRNA, tRNA, rRNA
3	September	Theory	Paper VI Unit II- Molecular Biology 2.1 Nucleic acids: Carriers of Genetic Information v) Significance of Nucleic acids vi) DNA as genetic material vii) Griffiths experiment
		Practical	Practical I 4) Plant families a) Leguminosae b) Bignoniaceae
4	October	Theory	Paper VI Unit II- Molecular Biology 2.2 DNA Replication i) Concept of central dogma of molecular biology ii) DNA Replication iii) Enzymes involved in DNA Replication
		Practical	Practical I 22) Isolation of plant genomic DNA 23) Estimation of DNA

5	November	Theory	Paper VI Unit II- Molecular Biology 2.2 DNA Replication iv) Concept of genetic code
6	December	Theory	Paper VIII Unit I- Plant Phisiology 1.1 Fundamentals of plant physiology and photosynthesis i) Introduction to Plant physiology ii) Photosynthesis- Intro and significance
		Practical	Practical I 24) Estimation of RNA
7	January	Theory	Paper VIII Unit I- Plant Phisiology 1.1 Fundamentals of plant physiology and photosynthesis iii) Photosynthetic pigments and photosystems
		Practical	Practical I 5) Plant families c) Euphorbiaceae d) Amaryllidaceae
8	February	Theory	Paper VIII Unit I- Plant Phisiology 1.1 Fundamentals of plant physiology and photosynthesis iv) Mechanism of photosynthesis a) Light reaction b) Dark reaction
		Practical	Practical II 1) Phytogeographical regions of India 17) Ganongs respirometer
9	March		Paper VIII Unit I- Plant Phisiology 1.2 Respiration v) Respiration: Intro and significance vi) Types: Aerobic and Anaerobic
10	April		Paper VIII Unit I- Plant Phisiology 1.2 Respiration vii) Mechanism of aerobic respiration a) Glycolysis b) Formation of Acetyl-CoA c) TCA/ Krebs cycle d) ETS

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Teaching Plan 2023-24

TEACHER NAME: SHRI. S. M. SABALE

CLASS: B. SC. III **SEMESTER: V/VI**

PAPER NO. XI: CYTOLOGY AND RESEARCH TECHNIQUES

PAPER NO. XIII: BIOCHEMISTRY AND MOLECULAR BIOLOGY

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	Paper XI – Cytology Unit 1- Cell as a unit of life 1.1 Intro 1.2 Cell cycle
		Practical	
2	August	Theory	1.3 Cell division Unit 2- Cell organelle 2.1 Nucleus 2.2 Mitochondria 2.3 Chloroplast 2.4 Ribosome
		Practical	4) Cell structure of *Onion, Hydrilla, Spirogyra* 7) Dialysis 8) DNA packaging in eukaryotes 10) Beer and Lamberts law 20) Phytochemical analysis
3	September	Theory	Unit 3- Subcellular structures and cell membrane 3.1 ER, Golgi body, Lysosome 3.2 Peroxisomes and Glyoxisomes 3.4 Cell membrane 3.5 Cell membrane types
		Practical	10) Isolation of plant genomic DNA 13) Application of biofertilizers 14) Organic manure 15) Drug adulteration
4	October	Theory	Unit 4- Research techniques in biology 4.1 Microscopy 4.2 Colorimetry 4.3 IPR 4.5 Patents
		Practical	11) Calorimetric estimation of DNA

			18) Mscroscopic study 8) Garden implements 9) Study of ornamental plants 5) Study of mitosis
5	November	Theory	Paper XIII – Biochemistry and Molecular Biology Unit 1- Carbohydrates 1.1 Introduction and classification
		Practical	10) Study of hedge and edge plants 11) Study of indoor plants
6	December	Theory	1.2 Structure and properties of carbohydrates 1.3 Isomerism 1.4 Significance
		Practical	14) Qualitative test for proteins 15) Qualitative test for lipids 16) Paper chromatography 18) Thin layer chromatography 11) Permanent cytological slides
7	January	Theory	Unit 2- Lipids 2.1 Intro, structure and properties 2.2 Saturated and unsaturated fatty acids 2.3 Significance of lipids
		Practical	17) Fatty acid value 19) Isoelectric point of protein 9) Mounting of Floral Parts 10) Vavilovs centres of origin of cultivated plants 4) Study of different types of Stains 1) Prokaryotic cell and Eukaryotic cell 15) Herbal preparation
8	February	Theory	Unit 3- Proteins 3.1 Intro, structure, properties, classification of amino acid 3.2 Biosynthesis of proline 3.3 General structure of protein 3.4 Transcription and translation
		Practical	12) Qualitative test for sugar 13) Qualitative test for starch and cellulose 6) Study of meiosis
9	March	Theory	Unit 4- Nucleic Acids 4.1 Intro, Composition and Structure 4.2 DNA Model 4.3 Replication in Eukaryotes
10	April	Theory	4.4 RNA 4.5 Gene Expression

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Teaching Plan 2023-24

TEACHER NAME: Shri.S.B.Patil

CLASS: B. SC. I **SEMESTER: I/II**

PAPER NO. I: DSC-13B: Mycology, Phytopathology and Mushroom cultivation

PAPER NO. II: DSC-14B: Archegoniate (Bryophytes, Pteridophytes & Gymnosperms)

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	June	Theory	Analytical techniques
		Practical	1.Study of forms of bacteria 2. Study of *Nostoc* 3. Study of *Spirogyra*
2	July	Theory	1.Principles of Microscopy 2. Light Microscopy
		Practical	4.Study of *Penicillium* 5.udy of *Riccia*
3	Augest	Theory	3.Fluorescence Microscopy 4. Electron Microscopy
		Practical	9. Study of *Pteris* 10. Study of *Gnetum* 11 Study of Metrological Instruments 12. Study of WHC of soils
4	September	Theory	Chromatography 1.Principles and application of Chromatography
		Practical	13. Determination of soil and water P^H 14. Study of Morphological and anatomical adaptation in hydrophytes

5	October	Theory	2. Paper Chromatography -Ascending 3.Thin layer Chromatography (TLC)
		Practical	15. Study of Morphological and anatomical adaptation in xerophytes 16. Study of Morphological and anatomical adaptation in epiphytes
6	November	Theory	1.a Introduction, Definition and scope of ecology Edaphic factor: Soil and Water
		Practical	
7	December	Theory	1.2. Bryophytes 1.General character 2. classification as per G.M. Smith (1955) upto classes
		Practical	*17.Selaginella*
8	January	Theory	3.Ecological and economical importance
		Practical	18.Mucor

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Teaching Plan 2023-24

TEACHER NAME: Shri. S.B. Patil

CLASS: B. SC. II **SEMESTER: III/IV**

Paper No. VI: DSC- C14: PLANT SYSTEMATIC AND ANATOMY

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	UNIT1. PLANT SYSTEMATICS 1. Plant systematics
		Practical	1.Study of shoot and root apex 2. Study of Simple tissue
2	August	Theory	Introduction to systematics. Functions of Taxonomy: Plant Identification ,Classification, Nomenclature. 1.2 Principle and Rules of ICN 1.3 Morphology of flowering plants: Root: Definition, Types and Modifications (Conical, Fusiform. Napiform, Prop. Pneumatophore)
		Practical	4. Study of Primary Structure of monocot and dicot root 5. Study of Primary Structure of monocot and dicot stem 6. Study of Normal secondary growth in dicot stem
3	September	Theory	b. Stem: Definition and Modifications (Phylloclade, Rhizome, Corm. Tuber) c. Leaf: Definition and (Simple and Compound, Phyllotaxy) d. Flower: Definition, Typical flower and Types (Actinomorphic, Zygomorphic) e. Inflorescence: Definition and Types f. Fruits: Definition and types 1.4 Bentham and Hooker's Classification (outline up to subclasses mentioning the numbers of series, orders). Merits and demerits. 1.5 Herbaria: Introduction and functions, examples with salient features: a. 'CAL'
		Practical	7. Study of Anomalous secondary growth in ***Bignonia*** 8. Study of Anomalous secondary growth in ***Dracaena.***

4	October	Theory	b. 'K' (Virtual herbarium) 1.6 Botanic gardens: Introduction and functions, example with salient features: Lead
		Practical	10. Double stained permanent micropreperation 11. Study of anatomy of porous and non-porous wood
5	November	Theory	Botanic Garden (SUK) 2.1 Anatomy: Introduction to internal 2a. Structure and development of plant body organization of plant body 2.2 Organization of shoot apex: Apical cell
		Practical	14. Study of Secretary Tissue System 15. Study of Mechanical Tissue System
6	December	Theory	2.3 Organization of root apex: Quiescent centre concept 2.4 Types of tissues: a. Meristematic tissue types based on position (Apical, intercalary and lateral)
		Practical	18. Determination of rate of Respiration 19. Breaking of seed dormancy 20. Study of effect of P^H on catalase enzyme activity
7	January	Theory	b. Permanent tissue types [Simple tissue: Parenchyma, Collenchyma. Sclerenchyma and Complex tissue: Xylem, Phloem]
		Practical	24. Study of biofertilizers 25. Separation of amino acids by TLC.
8	February	Theory	2.6.Primary structure of root, stem and leaf (Dicot and Monocot

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Teaching Plan 2023-24

TEACHER NAME: S.B. Patil

CLASS: B. SC. III **SEMESTER: V/VI**

Paper-XII DSE-E28 .Horticulture and Gardening

Sr. No.	Month	Theory/ Practical	Name of unit/ Topic/practical
1	July	Theory	1.1: Introduction and importance of horticulture 1.2: Divisions of Horticulture - Pomology, Olericulture, Floriculture, Landscape gardening.
		Practical	
2	August	Theory	Unit 2 Horticultural Produce and Management of Pest and diseases 2.1: Floriculture: a) Cultivation of important cut flowers and management of important pests and diseases: Rose, Gerbera, Marigold. b) Flower arrangements, Packing and Marketing of cut flowers. 2.2: Fruit preservation technology: a) Physical - Drying, freezing, heat, b) Chemical - sugar, salt, chen I preservatives.
		Practical	
3	September	Theory	Unit 3 Nursery: 3.1: Definition, objective 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
		Practical	Grafting - Definition,

			Whip grafting Approach grafting
4	October	Theory	ii) Layering-Definition, Simple layering. Air layering iii) Grafting - Definition, Whip grafting, Approach grafting iv) Budding: Definition, T-budding, Patch budding
		Practical	T-budding, Patch budding
5	November	Theory	
		Practical	Patch budding
6		Theory	c) By specialized vegetative structure- Bulbs, Corms, Tubers, Rhizomes
		Practical	
7	December	Theory	Landscape Gardening: Definition, scope and objectives
		Practical	Indoor Garden - Indoor plants, bottle garden, dish garden, hanging basket
8	January	Theory	Outdoor Garden - Lawns, Preparation of lawn, lawn types, Rockery, Terrace garden, Water garden, green house and polyhouse
		Practical	Bonsai Vertical Garden
February			Important aesthetic Gardens of India: i) Mughal garden, Delhi ii) Brindavan garden, Mysore.

HEAD
Department of Bot...
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Kavathe Mahankal

To,

01.08.2023

The Head,
Department of Statistics.
P. V. P. Mahavidyalaya, Kavathe Mahankal.
Dist: Sangli

Subject: Teaching plan and workload of Statistics Department for the year 2023-24

Respected Sir,

I am herewith submitting the following documents of Statistics Department for the year 2023-24

i) Teaching plan for the year 2023-24
ii) Total Workload.
iii) Teacher wise workload.

Please accept it and do the needful.

Yours sincerely

Dr. M. K. Patil
Department of Statistics

P.V.P. Mahavidyalaya, Kavathe Mahankal

Annual Teaching Plan 2023-2024

Name of the Teacher : Dr. M. K. Patil Designation : Professor Class: B.Sc. I
Semester I Department : Statistics **Paper: II**
Paper: Elementary Probability Theory (DSC A8)

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	Introduction--	Syllabus discussion	02
2	August	Sample space and Events, Probability Axiomatic definition.	Random experiments.Sample space, Discrete sample space Event, 1.3: Algebra of events (Union, Intersection, Complementation).Symbolic representation. Apriori, examples. Proof of the theorems on probability ,Illustrative examples based on results in 2	11
3	September	Conditional Probability	Definition, Multiplication theorem, Partition of the sample space, Baye's theorem, Examples	11
4	October	Independence of the events	Concept, Theorems on independence. Pairwise and mutual independence for three events, Examples.	11
5	November	Univariate Probability Distributions and Mathematical Expectation	Definition of discrete r.v., Pdf, cdf, Median, Mode, Expectation of Random Variable and theorems on expectations. Pgf and effect of change of origin and scale on pgf.	10

(Dr. M. K. Patil)

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Annual Teaching Plan 2023-2024

Name of the Teacher :Dr. M. K. Patil Designation : Professor Class: B.Sc. I **Semester II** Department : Statistics **Paper: II Paper: Discrete Probability Distributions (DSC B8)**

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	January	Bivariate Discrete Distribution	Joint p.m.f., and c.d.f., Properties of c.d.f, concept of marginal and conditional probability distribution, independence of two discrete r.v.s, Theorems on expectations, $Cov(aX+bY,cX+dY)$,	05
2	February	Mathematical Expectation	E(X+Y)=E(X)+E(Y) E(XY)= E(X)*E(Y) Cov(aX+bY, Cx+dY), p.g.f and its properties	10
3	March	Discrete distributions	One point, Two point, Bernoulli, Binomial, Hypergeometric distributions	10
4	April	Discrete distributions	Poisson distribution. Geometric distribution, Negative binomial distribution.	10
5	May		Examples and revision	10

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P.V.P. Mahavidyalaya, Kavathe Mahankal

Annual Teaching Plan 2023-2024

Name of the Teacher : Dr. M. K. Patil Designation : Professor Department : Statistics Subject : **B. Sc. I (Practical) Paper-I**

Sr. No.	Month	Main Topic/Unit	No. of Periods required
1	August	Data handling using MS-Excel	08
2	September	Computations using MS-Excel Diagrammatic and Graphical representation.	12
3	October	Measures of central tendency Measures of dispersion.	16
4	November	Moments, Skewness and Kurtosis.	12
5	December	Use of random numbers to draw SRSWOR, SRSWR, Stratified and Systematic sample. Computation of probabilities using Bayes' theorem.	12
6	January	Correlation coefficient and Regression for ungrouped data. Correlation coefficient and Regression for grouped data.	12
7	February	Spearman's rank correlation coefficient Attributes, (Missing frequencies, consistency, association and independence). Demography (Computations of Fertility rates, Mortality rates and Growth rates) Applications of Binomial and Hypergeometric distributions.	16
8	March	Applications of Uniform, Binomial and Hypergeometric distribution. Applications of Poisson, Geometric and Negative Binomial distribution.	16
9	April	Bivariate Discrete Distribution I Bivariate Discrete Distribution II Case Study	16

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Teaching Plan 2023-2024 (Semester I)

Sub: - Statistics
Class: B.Sc. I

Paper I: - Descriptive Statistics - I
Name of Teacher: - V. V. Koshti

Class/ Month	Theory	No. of Lects.
July	Introduction, Meaning & Scope of Statistics, Names of Statistical Organizations, sample and population, methods of sampling	09
Aug	Nature of data: Primary, Secondary, Qualitative, Quantitative, Scales of Measurements, Classification, Tabulation, Diagrammatic & Graphical representation, Box plot	12
Sept	Concept of central tendency Requirements, types, Mean, Mode, Median, GM,HM, Definition, properties, Merits, Demerits, derivation of formula, Comparison of averages, Relation, numerical problems	12
Oct	Measures of Dispersion: Absolute & Relative, Range, Q.D., M.D., S.D., C.V., Definition, properties, Moments: Raw, Central Definition, properties, Relation Skewness: Concept, Measures, Kurtosis: Concept, Measures, Num Problems.	12
Nov	Examination and Diwali Vacation	

Sub Teacher

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Teaching Plan 2023-2024 (Semester III)

Sub: - Statistics
Class: B.Com. II

Paper I: - Business Statistics - I
Name of Teacher: - S. S. Patil

Class/ Month	Unit//Subunit	No. of Lects.
July	Introduction, Meaning & Scope of Statistics, Nature of data Sampling techniques: Population & Sample, Census, Sampling, SRSWR & SRSWOR, Stratified, Classification, Tabulation	08
Aug	Diagrams: Simple bar diagram, Pie chart. Graphs : Histogram, Ogive curves Measures of Central Tendency: Concept, types, requirements. A. Mean : Combined mean ,Properties, merits and demerits	16
Sep	Median & Quartiles : Definition, merits and demerits Mode: Definition, merits and demerits Relation between mean, mode and median Numerical examples. Measures of Dispersion: Concept, methods, Absolute & Relative	16
Oct	Range, Q.D., S.D., Variance, C.D. , C.V., Definition, properties, merits and demerits, Numerical examples. Correlation : Concept, types, Positive & negative Karl Pearson & Spearman Rank methods , examples , Regression: Concept, Lines of Regression.	16
Nov	Regression coefficients & their properties, Numeric examples.	04

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Teaching Plan 2023-2024 (Semester III)

Sub: - Statistics
Class: B.Sc. II

Paper I: - Statistical Methods - I
Name of Teacher: - V. V. Koshti

Class/ Month	Theory	No. of Lects
July	Index Numbers: Need, meaning, problems in construction, Price, Quality and Value based simple (unweighted) & Weighted index nos. Laspeyre's, Paasche's and Fisher's index numbers.	06
Aug	Cost of living index number, definition, construction, uses. Tests of index numbers, base shifting, deflating, purchasing power of money. Uses of index numbers. Multiple Regressions: Concept, Yule's Notation, derivation of Plane of regression, Correlation, matrix, residual, mean, variance & co-variance.	12
Sep	Properties of residuals, Examples and problems. Concept of Multiple correlations, Derivation of formula, properties, Numerical examples & problems.	12
Oct	Concept of Partial correlations, Derivation of formula, Properties, Numerical examples & problems. National Income: Definitions of Marshal, Pigou, Fisher. Different concepts of National Income. Methods of estimating national income and difficulties	12
Nov	Importance of National Income	03

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Teaching Plan 2023-2024 (Semester III)

Sub: - Statistics
Class: B.Sc. II

Practical Paper III
Name of Teacher: - V. V. Koshti

Class/ Month	Theory	No. of Lects
July	Index Numbers -I Index Numbers -II	08
Aug	Multiple Regression Equations Multiple Correlation Coefficients	16
Sep	Partial Correlation Coefficients National Income	16
Oct	Time Series: Computation of secular trend & Seasonal component SQC: Control Charts for Variables (Range and Mean chart). SQC: Control Charts for Attributes (p, np and C- charts)	20
Nov	Examination and Diwali Vacation	
Dec	Applications of Trinomial & Bivariate Poisson Distribution	16
Jan	Practical on Basic Terminologies in testing of Hypothesis, Large sample tests for mean, proportion & Correlation Coefficients	20
Feb	Applications of chi square, t and F- Statistic	20
Mar	Sketching of discrete and Continuous Probability Distributions	08

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Teaching Plan 2023-2024 (Semester IV)

Sub: - Statistics

Name of Teacher:- V. V. Koshti

Class/ Month	B. Sc. II (Paper VIII: Statistical Methods)	
	Theory	No. of Lectures
Dec	Time Series: Definition, Components, Methods of determination of trend. Models: Additive, Multiplicative utility, seasonal variation measurement, examples.	10
Jan	S.Q.C.: Concept, purpose, need and advantages. Chance and Assignable causes, Control Chart, concept, and types. Construction of Mean & Range chart, limits. Attribute charts: p-chart & C-chart, examples.	12
Feb	Tests of Hypothesis: Various terms in testing, Large sample tests for means, proportions and correlation coefficients. Fisher's Z- transformation.	12
Mar	Small sample tests Concept, Theorem, Tests based on chi square distribution: for testing variance, goodness of fit, test for independence of attributes, Yates correction. t- test for population means, paired t test. F- test for equality of two variances.	12

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Teaching Plan 2023-2024 (Semester IV)

Sub:- Statistics Name of Teacher :- V. V. Koshti

Class/ Month	B.Com. II (B. Statistics-II)	
	Unit//Subunit	No. of Lectures
Nov	Time Series: Definition, Components, examples	03
Dec	Methods of determination of trend. Seasonal Variations by Simple Average Method, Numerical examples. S.Q.C.: Concept need and advantages. Chance and Assignable causes, Control Chart, Mean & Range chart np-chart & C-chart. Numerical examples. Index Numbers: Need, meaning,	16
Jan	Price, Quality and Value based simple (unweighted) & Weighted index numbers, problems in construction of index numbers, uses and examples. Laspeyre's, Paasche's and Fisher's index numbers, examples.	16
Feb	Probability and Probability Distributions: Probability: Events, laws of Probability, Examples. Binomial Poisson & Normal Distribution: Def^n, p.d.f., Mean and Variance.	16
Mar	Properties of normal curve, Examples to find area, probability.	09

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Teaching Plan 2023 -2024 (Semester II)

Sub: - Statistics Name of Teacher: - V. V. Koshti

Class/ Month	B. Sc. I (Paper III)	
	Theory	No. of Lectures
Nov	Introduction to syllabus, Demography : meaning, concept of vital statistics, its collection, general definition of vital event.	03
Dec	Mortality & fertility rates, CDR, SDR, ASDR, STDR, CBR, GFR, ASFR, TFR, Population growth rates, GRR, NRR, interpretation, Life table: Construction, types and uses In insurance. Correlation concept, types, examples, Bivariate data, Co-variance, properties, Scatter diagram method of studying correlation.	10
Jan	Methods of studying correlation: Karl Pearson's and Spearman's Rank Correlation coefficient, properties, simple examples. Regression- concept, definition, Lines of regression.	12
Feb	Fitting of a line of regression by the method of least squares. regression coefficients, properties, examples. Attributes: concept, various definitions, notation, Consistency, its conditions, examples. Concept of: Independence.	12
Mar	Concept of Association, relation between Q & Y, examples and problems, different correlation coefficients. Revision.	06

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Teaching Plan 2023-24

B.Sc. III (Semester VI)

Sub:- Statistics Name of Teacher :- S. M. Zarekar

Class/ Month	B.Sc. III STATISTICS - XIII (DSE-F13: Probability Theory and Applications.)			
	Unit/Subunit	No. Of Lect.	Practical	No. Of Lect.
Jan	**Unit-1: Order Statistics and Convergence:** **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 ith order statistic, Examples and problems. **1.2: Convergence and Limit Theorem**: Convergence - Definition of convergence of sequence of random	12	02	15
Feb	**1.3: Chebyshev's Inequality:**Chebycheve's inequality for discrete and continuous distributions.Examples. **1.4: Weak Law of Large Numbers and Central LimitTheorem:**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..	12	02	20
March	**Unit-2: Reliability Theory:** **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.	12	02	20
April	**2.3:Ageing Properties:**Definitions of hazard rate, hazard function, survival function. Concept ofdistributions with increasing and decreasing failure rate (IFR, DFR). Relationship betweensurvival 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 Examples on exponential distribution.	12	02	20

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Teaching Plan 2023-24

B.Sc. III (Semester V)

Sub:- Statistics Name of Teacher :- P. M. Patil

Class/ Month	B.Sc. III STATISTICS - XI (DSE-E15: Design of Experiments.)			
	Unit/Subunit	No. Of Lect.	Practical	No. Of Lect.
July Sept	**Unit 1: Simple Designs of Experiments:** **1.1: Basic Concepts:** i) Basic terms in design of experiments: ii)Basic principles of design of experiments: iii) Choice of size and shape of a plot for uniformity trials, the empirical formula for the variance per unit area of plots.	9	02	20
August Oct	**1.2: Completely Randomized Design (CRD):** **1.3: Randomized Block Design (RBD):** **1.4: Latin Square Design (LSD):**)Application of the principles of design of experiments inRBD, LSD layout model, assumptions and interpretations.Identification of real life situations where CRD, RBD and LSD are used.	12	02	20
Sept Nov	**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)Sin-1 (.) 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, 22& 23 factorial experiments arranged in RBD. ii)Definitions of main effects and interaction effects in 22 and 23 factorial experiments. iii)Model assumptions and its interpretation.	12	02	20
Oct. Dec	**2.3: Factorial Experiments:**iv)Preparations of ANOVA table by Yate's procedure, test for main effects and interactioneffects. v)General idea and purpose of confounding in factorial experiments. vi)Total confounding (Confounding only one interaction): ANOVA table, testing main effects andinteraction effects. vii)Partial Confounding(Confounding only one interaction per replicate): ANOVA table. Testing main effects and interaction effects. viii)Construction of layout in total confounding and partial confounding in 23 factorial experiment.	12	01	15

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Teaching Plan 2023-24

B.Sc. III (Semester V)

Sub:- Statistics Name of Teacher :- P. M. Patil

Class/ Month	B.Sc. III STATISTICS-IX (DSE-E13: Probability Distributions.)			
	Unit/Subunit	No. Of Lect.	Practical	No. Of Lect.
Jul	Unit-1: Univariate and Multivariate Probability Distributions. 1.1: Laplace (Double Exponential) Distributions 1.2: Lognormal Distributions 1.3: Cauchy Distributions 1.4: Weibull Distributions	9	02	20
Aug	1.5: Logistic Distributions 1.6: Pareto Distributions 1.7: Power series distributions. 1.8: Multinomial distributions. Unit-2: Truncated Distributions and Bivariate Normal Distributions. 2.1: Truncated distribution as conditional distribution, truncation to the right, left and on both sides. Binomial distribution (n, p) left truncated at X=0.probability mass function (p. m f), mean, variance	12	02	20
Sep	Poisson distribution P(λ), left truncated at X=0.probability mass function(p.m. f),mean, variance. Normal distribution N(μ ,σ^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 distribution. 2.2: Bivariate Normal Distribution. Probability density function (p.d.f) of BN(μ1,μ2,$\sigma 1^2$,$\sigma 2^2$,ρ). Marginal and conditional distributions.	12	02	20
Oct	Bivariate Normal Distributions: identification of parameters,conditional expectation and conditional variance, regression of Y on X and X on Y,independence and uncorrelated ness imply each other, m. g. f. and moments.Distribution of Ax+By+c,wherea,b,c are real no.s.Cauchy distribution as the distribution of Z=X/Y where (x, y) ~BN(0,0,1,1,ρ) ,Examples and Problems.	12	01	15

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Teaching Plan 2023-24

B.Sc. III (Semester V)

Sub:- Statistics Name of Teacher :- S. S. Patil

Class/ Month	B.Sc. III STATISTICS - XII (R programming and quality management)			
	Unit/ Subunit	No. Lects	Practical	No. Lects
Jul	History, Features of R, Character sets, Variable, Constants, Symbolic constant, key words, Data Types and Data Structure, Arithmetic, relational, logical, assignment, increasing, decreasing, special operators, Character vectors, Input and output functions, Data Import and Export function, Basic built-in function.	9	02	20
Aug	Algorithm, flow chart, Structure of programme, Conditional Statements: If, if else, Loops: for, while, Unconditional Statements, Writing of your own functions, Diagrams and Graphs, Simple programmes Simple programmes in R, Meaning and dimensions of quality, quality philosophy, and Magnificent tools of quality: Histogram, Check sheet, Pareto diagram, cause and	12	02	20
Sep	effect diagram, scatter diagram, control chart, flow chart. Deming's PDCA cycle. 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	12	02	20
Oct	Sampling Inspection plans for attribute: Concept of AQL, LTPD, Consumer's risk, and producer's risk, AOQ, AOQL, OC, ASN and ATI. Description of Single and double sampling plans with determination of above constants.	12	02	15

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Teaching Plan 2023-24

B.Sc. III (Semester VI)

Sub: - Statistics Name of Teacher: - S. M. Zarekar

Class/ Month	B.Sc. III STATISTICS-XV (DSE-F15:Sampling Theory.)			
	Unit/Subunit	No. of Lect.	Practical	No. of Lect.
Dec	**Unit- 1: Simple and Stratified Random Sampling: 1.1: SimpleRandomSampling:**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.	12	02	15
Jan	**1.3:StratifiedSampling:**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) $N\bar{y}_{st}$ 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 optimumallocation, 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. 20 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	12	02	20

P. V. P. Mahavidyalaya Kavathe Mahankal

Teaching Plan 2023-24

B.Sc. III (Semester VI)

Sub: - Statistics Name of Teacher: - S. S. Patil

Class/ Month	B.Sc. III STATISTICS - XVI (Operation Research)			
	Unit/Subunit	No. Lects	Practical	No. Lects
Dec	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-generate solution, (vi) an optimal solution, Solution of L.P.P.: i. Graphical Method ii. Simplex Method 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	12	02	15
Jan	Transportation problem, balanced and unbalance 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, Sequencing Problem, examples and problems.	12	02	20
Feb	Queuing Theory 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	12	02	20
Mar	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	09	01	20

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Teaching Plan 2023-24

B.Sc. III (Semester V)

Sub:- Statistics Name of Teacher :- G. D. Satpute

Class/ Month	B.Sc. III (Statistical inference-I)		
	Unit//Subunit	No. Lects.	Practicals.
Jul	Introduction, Statistical inference meaning, Notion of a parameter, parameter space, general problem of estimation, Introduction to estimating parameter using point and interval estimation,	9	
Aug	Def^{n} of Point estimation, estimator, estimates, distinction between estimator and estimate. Properties of estimator: i) Unbiased estimator, Biased estimator, Positive and Negative Bias, examples of unbiased and biased estimator, Proof of the results of unbiased, examples. ii) Efficiency, relative efficiency, examples, MVUE, UMVUE, results on it. Examples.	12	
Sep	iii) Consistency: Definition, result of Consistency, Likelihood function. Def^{n}, Examples. iv) Sufficiency: Concept of sufficiency, Definition of sufficient statistic, Neyman factorization criterion, Pitmann- Koopman criterion, Properties of sufficient statistic, Fisher Information function.	12	
Oct	Definition of Information function, Statement and proof of Cramer Rao Inequality. Definition of Minimum Variance Bound Unbiased Estimator, Methods of Estimation, Method of Maximum Likelihood (MLE), Definition, Derivation of MLE, Method of Moments. Derivation of moment estimators for standard distributions.	12	04

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Teaching Plan 2023-24

B.Sc. III (Semester VI)

Sub:- Statistics Name of Teacher :- G. D. Satpute

Class/ Month	B.Sc. III STATISTICS - XIV (Statistical inference-II)			
	Unit/Subunit	No. Lects	Practical	No. Lects
Dec	Introduction, Interval Estimation & It's Notions, Definition. Length and confidence bounds of confidence interval, pivotal quantity and its use to obtaining confidence Intervals and bounds. Interval estimation for: Mean and Variance of normal distribution, difference between means of normal distribution and mean of exponential distribution. Interval estimation for : Ratio of variances for samples from two independent normal populations, Population proportion and difference of two population proportions,	12	02	15
Jan	Statistical hypothesis, problems of testing of hypothesis, def. simple and composite hypothesis, C. R., Type I and Type II error and probabilities of two 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. Definition of MP test. Statement and proof of Neyman- Pearson lemma for MP test.	12	03	20
Feb	. Examples on MP test. Power function of a test, power curve, definition of Uniformly Most Powerful test, Use of NP lemma for constructing UMP test of level α for one-sided alternative. Computation of powers for standard probability distributions. Likelihood Ratio Test Procedure statement & its properties, LR test involving mean and variance of normal population for this alternative hypothesis Ho: $\mu=\mu_0$ v/s H1 : $\mu \neq \mu_0$ and Ho: $\sigma^2 = \sigma_0^2$ v/s H1 : $\sigma^2 \neq \sigma_0^2$ General theory of sequential analysis and procedure. Test for binomial, Poisson, exponential and normal Distributions & Graphical and tabular procedure for test.	12	03	20
Mar	Non-parametric tests: Notion, comparison with parametric statistical, Concept of distribution free statistic. And test i)Run test for randomness and run test for equality of distributions. ii) Sign test for one sample and two sample paired observations iii) Wilcoxson'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.	9	03	20

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Annual Teaching Plan
Prof.(Dr.) Suvarna B. More)

Academic Year - 2023- 24 **Class – B. Sc. I**
Subject – Zoology **Paper No. II, IV**

Month	Topic / Unit	Sub-unit Planned
03. 07.2023 To 11.11.2023 **July**	CELL BIOLOGY & EVOLUTIONARY BIOLOGY- Paper III 1.Cell structure 2. Structure of nucleus 3. Structure of Chromosome Practicals- 2. Study of the following 1. Preparation of 2. Identification of 6. Cytological Preparations.: B. Polytene Chromosome	- Introduction to syllabus - Cell theory and diversity in cell size and shape - Nucleus with reference to Nuclear membrane, Nucleoplasm, Chromatin and nucleolus. - With reference to Morphology and organization (Nucleosome), Polytene Chromosomes i. T.S. and L.S. of Sycon. ii. Life history Taeni and Ascaris and their parasitic adaptations - hemin and hemochromogen crystals - ABO and Rh blood groups - Mitochondria – Stained preparation of mitochondria from Oral mucosal cells by using Janus Green B stain - Stained preparation of Polytene chromosome in chironomous larva/ Drosophila larva
August	1.Plasma Membrane 2.Mitochondria Practical Practical	- Ultra structure (Fluid Mosaic Model) - Chemical composition - and functions - Ultra structure - Chemical composition - and functions i. Study of Amoeba, Euglena, Plasmodium, Paramecium, w.r.t. classification and locomotion
September	Endoplasmic Reticulum Golgi complex Practicals-	- Ultra structure - Chemical composition - and functions - Ultra structure - Chemical composition - and functions - Study of Sycon, Hyalonema, and Euplectella, Obelia, Physalia, Aurelia, Tubipora, Metridium

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October	Lysosome Practicals	- Ultra structure - Chemical composition - and functions A)Hemin crystals - B) and hemochromogen crystals Ultra structure - Chemical composition - and functions
11 oct. 2023 term end	Practicals	- Study of Taenia solium, Ascaris lumbricoides - Arthropoda- Aprodite, Neris, cockroach, hirudinaria, palaemon, Cancer, limulus,prawn, Scolopendra, Julus, Send to exam
Sem II 24.11.2023 To 14.05.2023	Holiday	
November	Unit I a) Introduction to Genetics b) Mendelian and post Mendelian Genetics Practicals Cytological Preparations	- work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information - Principles of Inheritance, Incomplete dominance and co-dominance a) hemin and hemochromogen crystals b) ABO and Rh blood groups c) Mitochondria – Stained preparation of d) mitochondria from Oral mucosa by using Janus Green Stained preparation of Polytene chromosome in chironomous larva/ Drosophila larva
December	**Genetics** 3. Linkage, Crossing Over Practical- Mollusca- Echinodermata -- Theory - Genetics Examples on Genetics	Gene interaction, Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance Linkage and process of crossing over, Coupling and repulsion theory, Cytological evidence of crossing over repulsion theory, Cytological evidence of crossing over Classification and Morphological peculariities Chiton,Dentalium, Pila, Unio.Loigo, Sepia, Octopes Classification and Morphological peculiarities of, Pentaceros, Ophiura, Echinus, cucumria, Antedon Sex Chromosomal theory of sex determination, Genic balance theory, Haploidy Diploidy mechanism, Environmental sex determination, dosage compensation ii. Examples on Mono, Dihybrid ratio,

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January	Genetics Practical-. Practicals- Study of fossil evidences	e). Principles of Inheritance, Incomplete dominance and codominance,gene interaction. Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance g) from plaster cast models and pictures -Excursion Tour -Journal Checking
February	3.Sex Determination Practicals	Sex Chromosomal theory of sex determination, Genic balance theory, Haploidy Diploidy mechanism, Environmental sex determination, dosage compensation Incomplete dominance, Co-dominance, Multiple alleles, Sex linked inheritance, Linkage and Crossing over and Gene interaction
March	Rat Practical Rat -Demonstration	a) Systemic position, Habit and habitat b) Mrphological characters c) Respiratory system d) Circulatory system e) Excretay system f) Reproductive system g) Brain a.Digestive system b.Lung, Heart, Kidney,Testis, Ovary and Brain
April	Mutations Practical – Study of Insect Vector	Chromosomal Mutations, Deletions, Duplications, Inversions, Translocation, Aneuploidy and Polyploidy Induced Gene Mutation. A) Mosquito born diseases a) Malaria b) Dengue c) Chikungunya A) House fly Born Disease- Myiasis B) Flea born disease- Plague, Typhus fever Repetitions and Journal Checking
14.05.2023 term end May	Send to Exam	

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Annual Teaching Plan
Prof.(Dr.) Suvarna B. More)

Academic Year - 2023- 24 **Class – B. Sc. II**
Subject – Zoology **Paper No. V, VII**

Month	Topic / Unit	Sub-unit Planned
03. 07.2023 To 11.11.2023 **July**	Unit I 1.Proto Chordates a. Hemichordata b. Protochordata 2.Agnatha	-Introduction General characters and Classifications of Proto Chordates - General characters and Classification - General characters and Classification of Protochordata General characters of Agnatha and Classification of cyclostomes up to classes
August	**3.Pisces:** General characters and Classification up to orders 4.Amphibia: Practicals- Practicals Practical I- Unit: 1 Animal diversity-II:	General characters and Classification up o orders 1.General features and Classification up t. orders Systematic Position, Habit and Habitat ☐ Morphological Characters ☐ Digestive System ☐ Respiratory System ☐ Heart and Composition of Blood ☐ Excretory System ☐ Reproductive System (Male and Female) ☐ Brain - Study of Protochordates and Agnatha Study of the following specimens with reference to morphological peculiarities and classification upto orders: a) Herdmania, Branchiostoma, b) Petromyzon, Sphyrna, Pristis, Torpe o, Labeo, Exocoetus, Anguilla, c) Ichthyophis/Ureotyphlus, Salamandra, Bufo, d) Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Crocodylus, Gavialis
September	Unit 2: Paper V 5.Reptiles: Practicals - Characters Identifying venomous and non-venomous snakes Demonstration of Frog: Practicals	1. General characters and Classification up to orders: 2.Venomous and non-venomous snakes, Biting mechanism in snakes Russell's viper, Saw scaled viper, Common krait, Indian Cobra, Sea snake, Rat snake and Checkered keelback. a) Digestive System b) Respiratory System c) Excretory system

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	Practicals	d) Male and Female Reproductive System e) heart and brain - Biochemical tests for Glucose, Fructose, Sucrose, Lactose and Lipid. - Estimation of total protein in given solutions by Lowry's method. - Study of activity of salivary amylase under optimum conditions
October **11 oct. 2023 term end**	6. Aves 7. Mammals- Practical Practical	- General features and Classification up to orders: 1 General characters and Classification up to orders: - Study of the following specimens with reference to morphological peculiarities and classification up to orders of, -Shrew, Bat, Squirrel and Loris. a) Effect of Temperature and pH on activity of salivary amylase b) Urea, urease enzyme activity
Sem II **24.11.2023** **To** **14.05.2023** **November**	Paper VII Unit 1: Unit II Functional anatomy of female reproduction Practicals- Dissection of, fowl Practical II Unit: 1 Reproductive Biology:	1.Structure and hormones of pituitary gland Functional anatomy of female reproductive system **Anatomy of female reproductive system** a.Histology of Ovary b. Histology of Oviduct/Fallopian Tube c. Histology of Uterus d. Histology of Cervix and vagina e. Reproductive cycle in Human f. Female sex hormones - brain of fowl. - hyoid apparatus, sclerotic plates, Pecten and Collumella of fowl. - Cycloid, Ctenoid and Placoid scales in fishes 1. Study of Animal house: Set up and maintenance of animal house Breeding techniques Care of normal and experimental animals with the help of model/photographs
December	Physiology- Functional anatomy of female reproduction:	Folliculogenesis, process of Oogenesis and structure of ovum h. Menstrual cycle and hormonal regulation i. Transport of ovum and sperm in female genital tract j. Process of fertilization k. Hormonal control in Implantation

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	Practicals- Unit I	l. Diagnostic features of pregnancy and hormonal regulation m. Mechanism and hormonal regulation of Parturition and Lactation 2. Stages/phases of menstrual cycle. 3. Surgical techniques: Principles of surgery in endocrinology. Ovariectomy, Tubectomy, hysterectomy, orchiectomy and vasectomy in rats through Demonstration or Video 4. Examination of histological sections from photomicrographs/permanent slides of rat Testis, Epididymis, Ovary, Fallopian tube, Uterus (proliferative and secretary stages). Cervix and Vagina
January	**Unit III: Functional anatomy of male reproductive System:** B. Anatomy of male reproductive System Practicals	Histology of testis b. Histology of Epididymis c. Histology of Seminal vesicle d. Histology of prostate gland e. Histology of Cowper's gland 5. Structure of human sperm and ovum 6. Detection of pregnancy by using kit. 7. Study of contraceptive devices by photographs or models
February	Theory Practical- **Unit II: Applied Zoology:** Practical	f. Histology of penis g. Male sex hormones h. Process of spermatogenesis and structure of sperm i. Epididymal functions and sperm maturation j. Sperm transportation in male genital tract k. Hormonal control of Testicular activities 1. Study of arthropod vectors associated with human diseases: Pediculus, Culex, Anopheles, Aedes and Xenopsylla 2. Study of insect pests through damaged products/photographs. **i) Crop pests** a. Gram pod borer (*Helicoverpa armigera*) b. Sugarcane leaf hopper (*Pyrilla perpusilla*) c. Lemon Butterfly (*Papilio demoleus*) ii) Stored grains pests a. Pulse Beetle (*Callosobruchus chinensis*) b. Rice Weevil (*Sitophilus oryzae*) c. Red Flour beetle (*Tribalism castaneum*) -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

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March	Unit IV: Reproductive Health Practical-	**a. Infertility in Male:** causes, diagnosis and management **b. Infertility in Female:** causes, diagnosis and management **c. Assisted Reproductive Technology:** Sperm bank. Frozen embryos. Intrauterine Transfer (IUT). Zygote Intrafallopian Tube Transfer (ZIFT) Gamete Intrafallopian Transfer (GIFT). Intracytoplasmic Sperm Injection (ICSI). 4. Identifying feature and economic importance of *Helicoverpa armigera* (Cotton bollworm), *Papilio demoleus* (Lime butterfly), *Pyrilla perpusilla* (Sugarcane plant hopper), *Callosobruchus chinensis* (Pulse beetle), *Sitophiluso ryzae* (Rice weevil) and *Tribolium castaneum* (Red flour beetle).
April	**Unit V: Contraceptive Methods:** Practical- Unit III	**d. In vitro fertilization (IVF):** Ovarian stimulation, Egg retrieval, Sperm retrieval, Fertilization and Embryo transfer a. Temporary methods b. Permanent Methods 3. **Poultry:** To study the breeds of poultry birds with the help of photographs (2 Indigenous and 2 Exotic poultry birds) 4. **Sericulture:** To study the Life cycle of mulberry silk moth (*Bombyx mori*), - Types of silk moths – Muga, Tasar and Eri by photographs or specimen Journal checking, Tour report preparation
May **14 May 2023 term end**	Send to Exam	

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Annual Teaching Plan
Prof (Dr) Suvarna B. More

Academic Year - 2023- 24 Class – B. Sc. III
Subject – Zoology Paper No.IX. XII. XIII. XV

Month	Topic / Unit	Sub-unit Planned
03. 07.2023 To 11.11.2023	Unit 1: Integumentary System	1. Generalized structure of integument 2. Functions of Integument 3. Soft and Hard epidermal derivatives 4.Hard epidermal derivatives
July	Unit 2: Skeletal System	1. Vertebral column 2. Appendicular skeleton 3: Digestive System 4 Brief account of alimentary canal and digestive glands
	Unit 4: Respiratory System	Brief account of Gills, lungs, air sacs of Pisces , Amphibians , Reptiles, Aves and Mammals Succession of kidney
	Unit 6: Evolution of Kidney	Pro,meso and metanephric kidney
	Practical – I Comparative anatomy and developmental biology of vertebrates	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
August	Unit 3: Digestive System Unit 5: Circulatory System	- Brief account of alimentary canal and digestive glands - of Pisces , Amphibians , Reptiles, Aves and Mammals Evolution of heart and aortic arches of Pisces , Amphibians , Reptiles, Aves and Mammals
	Unit 7: Nervous System	- Comparative account of brain
	Unit 8: Sense Organs Paper XII Practical	a. Comparative account of ear and eye of vertebrates - Endocrinology - Projects work
	Practicals Goat farming a. Breeds (any four = 2 Indigenous and 2 Exotic) 6. Osteology	- Goat Faeming - b. Housing c. Feeding 6. Visit to goat farm or animal breeding centre – submission of visit report a) The skeleton of fowl (Disarticulated) b) The skeleton of rabbit (Disarticulated) c) Mammalian skull's – (any one herbivorous and one carnivorous animal)
September	Paper XII	- Fresh Water Ecosystem

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	Unit I- Aquatic Biomes	- Estuaries - Intertidal zone - Oceanic pelagic zone - Coral reef
	2. Streams	a.Different stages of stream development b. Physico-chemical Environment c. Adaptation of hill stream fishes
	Practical - B] Immunology	- Study of lymphoid organ's (Photo graph. Models. Videos) 2. Histological study of (slides or pl stographs) a. Spleen b. Thymus c. Lymph node.
	Practical Examination of Gametes – Frog or Rat sperm & ovum through slides or microphotographs	3. Preparation of stained blood smears to study various types of blood cells 4. Determination of ABO blood groups
October	Unit 3: Endocrinology	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
	Practical 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
	Practical Study of Histological structures of placenta (permanent slide or microphotographs Send to exam	1) Epitheliochorial 2) Endotheliochorial 3) Hemochorial 4) Syndesmochorial 5) Hemoendothelial
11 oct. 2023 term end		
Sem II 24.11.2023 To 14.05.2023 **November**	Paper XIII Unit 1 : Gametogenesis Unit 2: Early Development of Frog	Types of Eggs 2. Fertilization – Types and Process of Fertilization 3. Types of Cleavages 1. Structure of mature egg and its membranes 2. Cleavage 3. Blastula and its fate map 4. Process of gastrulation

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		5. Types of Morphogenic Movements 6. Fate of three germinal layers 7. Neurulation 8. Metamorphosis in frog and its ho monal regulation
	Practicals	1.Whole mount of chick embryo 2.Examinations of gametes-Frog and Rat sperm and ovum through slides or microphotographs. 3. Microtomy
December	Unit 3: Chick Embryology	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 significan
January	Unit 4: Late Embryonic Development III. Study of Chick Embryo Paper XV Unit 1: Apiculture Unit 2 : Animal Husbandary Practicals Freshwater prawn culture Practicals 6. Visit to goat farm or animal breeding centre –	1. Implantation of embryo in human being 2. Placenta – Formation, types and significanc Preparation of whole mount 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. 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 a. Species of Prawn b. Site selection c. Farm Construction d. Production system e. Harvesting .Breeds (any four -2 Indigenous and 2 Exotic) b. Housing c. Feeding submission of visit report
February	Unit 4: Freshwater prawn culture	1. Species of Prawn 2. Site selection 3. Farm Construction 4. Production system: fertilization, larval Development, Food and feeding

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		5. Harvesting
	Practicals 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
March	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
	Practicals-	C] Cell counting and viability test from splenocytes of farm breed animals / cell lines 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
	Practicals 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)
		Project work
April	Unit 4 : Goat Farming	1. Breeds 2. Feeding 3. Housing 4. Economic Importance
	10. Goat farming Practicals	2. Preservation & Artificial insemination in cattles 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
May14 May 2023 term end	Send to exam	

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SHIKSHAN PRASARAK SANSTHA'S

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL

DEPARTMENT OF ZOOLOGY

Teaching Plan for academic year 2023-24

B.Sc. Part-I

Name of Faculty: Dr. R. A. Sanadi

Month	Topic/Unit	Subunit planned
B.Sc. Part-I Semester-I, Paper-I DSC-15A (Animal Diversity-I) Term I (03 July, 2023 to 11 November, 2023)		
July	Unit I	**Kingdom Protist:** General characters and classification up to classes; Locomotory organelles and locomotion in Protozoa **Phylum: Porifera**: General characters and classification up to classes; Canal System in Sycon **Phylum:Cnidaria:** General characters and classification up to classes; Polymorphism in Hydrozoa
	Practical I	**A. Kingdom: Protista** Amoeba , Euglena , Plasmodium , Paramecium **B. Phylum: Porifera:** Sycon , Hyalonema, Euplectella **C. Phylum: Cnidaria** Obelia, Physalia, Aurelia, Tubipora, Metridium **D. Phylum: Platyhelminthes :** *Taenia Solium* **E. Phylum: Aschelminthes** *Ascaris Lumbricoides* (Male And Female)
August	Unit I	**Phylum: Platyhelminthes:** General characters and classification up to classes; Life history of Taenia solium and its parasitic adaptations **Phylum: Nemathelminthes** : General characters and classification up to classes; Life history of Ascaris lumbricoides and its parasitic adaptations
	Practical I	**F. Phylum Annelida:** Aphrodite, Nereis, Pheretima, Hirudinaria **G. Phyllum: Arthropoda:** Palaemon, Cancer, Limulus, Palamnaeus, Scolopendra, Julus , Periplaneta, Apis **H. Phylum- Mollusca** :Chiton, Dentalium, Pila, Unio, Loligo, Sepia, Octopus

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		I. Phylum Echinodermata Pentaceros, Ophiura, Echinus,Cucumaria, Antedon
September	**Unit II**	**Phylum:Annelida**:General characters and classification up to classes; Metamerism in Annelida **Phylum:Arthropoda:**General characters and classification up to classes; Vision in Arthropoda, Metamorphosis inInsects
	Practical I	**Study of the following :** i. a. T.S. of Sycon b. L.S. of sycon ii. Life history and their parasitic adaptations of following specimen a. *Taenia solium b. Ascaris lumbricoides* **Physiological Experiments** Preparation of haemin crystals. Preparation of blood smear
October	**Unit II**	**Phylum: Mollusca :** General characters and classification up to classes; Torsion in gastropods **Phylum: Echinodermata:** General characters and classification up to classes; Water-vascular system in Asteroidea
	Practical I	**Physiological Experiments** Identification of ABO blood group and Rh factor
November		Send to exam

B.Sc. Part-I Semester -II, Paper-III

DSC – 15 B (Animal Diversity and Insect Vector)

Term II (24 November, 2023 to 09 May, 2024)

November	**Unit: I**	**Type Study: Rat (*Rattus rattus*) (Physiology is not expected)** Systematic position, Habit and Habitat, Morphological Characters
	Practical I	**Cytological Preparations of :** i. Stained preparation of mitochondria from onion peeling/Oral mucosa by using Janus Green B. ii. Stained preparation of Polytene chromosome in chironomous larva/Drosophila larva.
December	**Unit: I Animal Diversity**	**Type Study: Rat (*Rattus rattus*) :** Digestive System, Respiratory System, Circulatory System (Composition of Blood and Heart)

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	Practical I	**Demonstration of Rat to study-** Digestive system of Rat, Respiratory system of Rat (Lungs) Circulatory system of Rat (Heart) , Excretory system of Rat(Kidney) Male reproductive system of Rat(Testis), Feale reproductive system Rat(Ovary), Nervous system of Rat(Brain) **Study of Mendelian Inheritance and gene interactions (Non Mendeli** **Inheritance) using suitable genetic examples**
January	**Unit: I**	**Type Study: Rat (*Rattus rattus*) (Physiology is not expected)** Excretory System, Reproductive System , Brain for Rat
	Practical I	**Study of following insect vector** Mosquito borne diseases (Causal organism, symptoms and control measure Malaria, Dengue , Chikungunya
February	**B.Sc. Part-I Semester -II, Paper-IV** **DSC – 16 B (Genetics)**	
	Unit II:	**Sex Determination:**Chromosomal theory, Genic balance theory
	Practical I	**Study of following insect vector** Housefly borne diseases (Causal organism, symptoms and control meas Myiasis Flea borne diseases (Causal organism, symptoms and control meas Plague, Typhus fever
March	**Unit II:**	**Sex Determination:** Haploidy-Diploidy mechanism, Environmental Theory
	Practical I	**Revision**
April	**Practical Exam**	
May	**Theory Exam**	

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SIKSHAN PRASARAK SANSTHA'S

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL

DEPARTMENT OF ZOOLOGY

Annual Teaching Plan for academic year 2023-24

B.Sc. Part-II

Name of Faculty: Dr. R. A. Sanadi

Month	Topic/Unit	Subunit planned
B.Sc. Part-II Semester -III, Paper-VI DSC- C (BIOCHEMISTRY-NEP 2020) Term I (03 July, 2023 to 11 November, 2023)		
July	Unit I	**Carbohydrate Metabolism** 1) Classification and biological significance of carbohydrates 2) Glycolysis 3) Krebs Cycle 4) Electron Transport Chain
	Practical I	**Unit – I Animal Diversity - I** **A. Classification and general characters of Protochordates** 1. Hardmania 2. Branchiostoma
		B. Classification and general characters of Class Cyclostomata 1. Petromyzon
		C. Classification and general characters of class Pisces 1. Sphyrna 2. Pristis 3. Torpedo 4. Labeo 5. Exocoetus 6. Anguilla
		D. Classification and general characters of class Amphibia 1. Ichthyophis 2. Salamandra 3. Bufo 4. Hyla
		E. Classification and general characters of Class Reptilia 1. Chelone 2. Hemidactylus 3. Chameleon 4. Draco 5. Crocodylus 6. Gaviali
	Practical II	**Unit: 1 Reproductive Biology:** 1. **Study of animal house:** a) Set Up And Maintenance Of Animal House. b) Breeding Techniques. c) Care of Normal And Experimental Animals. 2. **Study of stages of Menstrual cycle.** 3. **Surgical techniques:** a) Principles of surgery in endocrinology. b) Ovarectomy c) Tubectomy in rat
August	Unit I	**Carbohydrate Metabolism** 5) Pentose Phosphate Pathway 6) Gluconeogenesis 7) Glycogenesis

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		8) Glycogenolysis
		Lipid Metabolism : Classification and biological significance of lipids
	Practical I	**2 Demonstration of Frog** 1. Digestive system 2. Lungs 3. Heart 4. Kidney 4. Testis 5. Ovary 7. Brain **3. Identification of Venomous and non-Venomous snakes** 1. Russell's' viper 2. Saw scaled viper 3. Common Krait Indian Cobra Pit viper 5. Sea snake 6. Rat snake 7. Checkered Keelback **4. Classification and general characters of Class Aves** 1. Duck 2. Vulture 3. Pigeon 4. Parrot 5. Kingfisher 6. Woodpecker
	Practical II	**5. Surgical techniques:** d) Principles of surgery in endocrinology. e) Ovarectomy f. Tubectomy g. Hysterectorny terus) f) Castration Vasectomy in rat **4. Examination of histological sections from photomicrographs/ permanent slides of rat** Histology of testis Histology of ovary Histology of Uterus Histology of vagina Histology of Epididymis Histology of Fallopian Tube Histology of Cervix
September	**Unit I :**	**Lipid Metabolism** : β oxidation of fatty acids.
	Unit II:	**Protein metabolism** : 1) Structure, Classification and biological signifi of proteins 2) Transamination
	Practical I	**5. Temporary preparations of scales in Fishes** 1. Cycloid scale 2. Ctenoid scale 3. Placoid scale **Unit – II Biochemistry** **1 Qualitative tests to identify functional groups** 1. Glucose 2. Fructose 3. Sucrose 4. Lactose 5. Lipid
	Practical II	**5. Structure of Human sperm and ovum** **6. Detection of pregnancy by using kit**
October	**Unit II:**	**Protein metabolism** 3) Deamination 4) Urea Cycle/ Ornithine cycle
	Practical I	**h. Mammalia:** Duck-billed platypus, Kangaroo, Bat, Squirrel, Loris
	Practical II	**6. Study of modern contraceptive devices by photographs or mo**
November		Send to exam

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B.Sc. Part-II Semester -IV, Paper-VII DSC- C (APPLIED ZOOLOGY-I -NEP 2020)
Term II (24 November, 2023 to 09 May, 2024)

November	**Unit I**	**Introduction to Host-parasite Relationship:** Host, Definitive host, Intermediate host, Parasitism, Symbiosis, Commensalism, Reservoir, Zoonosis
	Practical I	**Study of activity of salivary amylase under optimum conditions** **Study of activity of salivary amylase** Effect of temperature, pH and salinity on activity of salivary amylase 1. Effect of temperature 2. Effect of pH 3. Effect of Salinity
	Practical II	**Revision**
December	**Paper-VII DSC- C (APPLIED ZOOLOGY-I -NEP 2020)**	
	Unit II:	**Epidemiology of Diseases:** Transmission, Prevention and control of diseases: Tuberculosis, Typhoid.
	Unit III:	**Rickettsia and Spirochetes:** Brief account of Rickettsia prowazekii, Borrelia recurrentis and Treponema pallidum
	Practical I	1. Dissection of brain of fowl
	Practical II	**Study of arthroped vectors associated with human diseases** Pediculus Culex Anopheles Aedes Xenopsylla **Study of insect damage to different plant parts/stored grains through damaged products/photographs.** Crop pests : Gram pod borer (Helicoverpa armigera), Sugarcane leaf hopper (Pyrilla perpusilla), Lemon Butterfly (Papilio demoleus)
January	**Paper-VII**	**DSC-C (REPRODUCTIVE BIOLOGY - NEP 2020**
	Unit IV	**Reproductive Health** a. Infertility in Male: causes, diagnosis and management b. Infertility in Female: causes, diagnosis and management c. Assisted Reproductive Technology: Sperm bank. Frozen embryos. Intrauterine Transfer (IUT). Zygote Intrafallopian Tube Transfer (ZIFT) Gamete Intrafallopian Transfer (GIFT). Intracytoplasmic Sperm Injection (ICSI).
	Practical I	Temporary preparations of (Mountings) i. Pecten of fowl ii. Sclerotic plate of fowl iii. Columella of fowl iv. Hyoid apparatus of fowl
	Practical II	**Stored grain pests** Pulse Beetle (Callosobruchus chinensis), Rice Weevil (Sitophilus oryzae) Red Flour beetle (Tribalism castaneum) **Identifying feature and economic importance of**

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		Helicoverpa armigera (Cotton bollworm), Papilio demoleus (Lime butterfly), Pyrilla perpusilla (Sugarcane plant hopper), Callosobruchus chinensis (Pulse beetle), Sitophiluso ryzae (Rice weevil), Tribolium castaneum (Red flour beetle)
February	**Paper-VII**	**DSC-C (REPRODUCTIVE BIOLOGY - NEP 2020**
	Unit IV	**Reproductive Health** d. In vitro fertilization (IVF): Ovarian stimulation, Egg retrieval, Sperm retrieval, Fertilization and Embryo transfer
	Practical I	**Estimation of total protein in given solutions by Lowry's method**
	Practical II	**Revision**
March	**Paper-VII**	**DSC-C (REPRODUCTIVE BIOLOGY - NEP 2020**
	Unit V	**Contraceptive Methods:** a. Temporary methods b. Permanent Method
	Practical I	**Urea, urease enzyme activity**
	Practical II	**UNIT III Poultry** To study the breeds of poultry birds with the help of photographs (2 Indigenous and 2 Exotic poultry birds) **Sericulture** To study the Life cycle of mulberry silk moth (Bombyx mori) Types of silk moths: Muga silk moth, Tasar silk moth, Eri silk moth
	Practical I	**Practical exam**
	Practical II	
May	**Theory exam**	

Signature of Teacher

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Department of Zoology

Annual Teaching Plan for academic year 2023-24

B.Sc. Part-III

Name of Faculty: Dr. R. A. Sanadi

Month	Topic / Unit	Sub-unit Planned
July	**B.Sc. Part-III Semester -V, Zoology Paper-XI** **DSE-F30 (Bio-techniques and Biostatistics)** Term I (03 July, 2023 to 11 November, 2023)	
	Unit 1: Genetically modified organisms –	**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 2: 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, Pleurepotency, Multipotency, Unipotency **ii) Sources of stem cells**-Embryo, Fetal, Adult, Bone marrow
	Paper-XII DSE-F31 Aquatic Biology	
	Unit I- Aquatic Biomes	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 II Fresh water Biology 1. **Lakes**	a. Lake as an Ecosystem b. Lake Morphometry c. Physico-chemical characteristics Light, Temperature , Thermal Stratification , Dissolved solid, Carbonates, Bicarbonates, Phosphates and Nitrates Turbidity Dissolved gases (Oxygen Carbon dioxide, Nutrient Cycle – (Nitrogen, Sulphur & Phosphorus)
	Zoology Practical–IV	
	Aquatic biology, insect vector & diseases	**Histology of Following mammalian organs-** a. Tooth (V.S.) b. Tongue c. Salivary gland d. Stomach e. Duodenum f. Liver g. Ileum h. Pancreas i. Kidneys **Endocrine glands (Anatomy and Histology)** – Thyroid, Parathyroid, Adrenal and Pancreas.

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		Instruments used in limnology & their significance a) Secchi disc b) Van Dorn bottle c) Conductivity meter d) Turbidity meter e) PONAR grab sampler
	Zoology Practical – II	
	Applied Zoology–II and Immunology	**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
August	**Zoology Paper-XI**	**DSE-F30 (Bio-techniques and Biostatistics)**
	Unit III: Biostatistics	a. Classification of Biological data b. Frequency distribution c. Tabulation d. Graphical representation of data
	Paper-XII	**DSE-F31 Aquatic Biology**
	Unit II Streams	a. Different stages of stream development b. Physico-chemical Environment c. Adaptation of hill stream fishes
	Zoology Practical–IV	
	Aquatic biology, insect vector & diseases	1.Identify the zooplanktons present in lake ecosystem 2.Determination of dissolved oxygen 3.Determination of free CO2 4. Estimation of total hardness of water
	Zoology Practical – II	
	Applied Zoology – II and Immunology	**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 3. Pearl culture** a. Species of oyster b. Process of Pearl formation: natural and artificial c. Importance of Pearl **4. Freshwater prawn culture** a. Species of Prawn b. Site selection c. Farm Construction d. Production system e. Harvestin
	B.Sc. Part-III Semester -V, Zoology Paper-XI **DSE-F30 (Bio-techniques and Biostatistics)**	
	Unit III: Biostatistics	e. Measures of central tendency (Mean, Median, Mode) f. Dispersion – Mean, deviation & standard deviation
	Zoology Practical–IV	
September	**Aquatic biology, insect vector & diseases**	1. Determination of area of a lake using graphimetric & gravimetric method 2. Determination of turbidity or transparency from nearby lake or water body 3. Determination of alkalinity (Carbonates & bicarbonates) from water collected from nearby lake or water body
	Zoology Practical – II	
	Applied Zoology – II and Immunology	**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

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October	**Zoology Paper-XI DSE-F30 (Bio-techniques and Biostatistics)**	
	Unit III: Biostatistics	g. Correlation – Scattered diagram, Karl Pearson's correlation coefficient and Spearman's rank correlation coefficient.
	Send to exam	
	B.Sc. Part-III Semester -VI, Zoology Paper-XV DSE-E31 (Applied Zoology - II) Term II (24 November , 2023 to 09 May, 2024)	
November	**Unit 1: Apiculture**	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 Equipment's c. Extraction of Honey 4. Medicinal Value of Honey
	Unit 2 : Animal Husbandary	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	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	1. Species of Prawn 2. Site selection 3. Farm Construction 4. Production system: fertilization, Larval Development, Food and feeding 5. Harvesting
	Zoology Practical–IV	
		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
	Zoology Practical – II	
	10. Goat farming	a. Breeds b. Housing c. Feeding 6. Visit to goat farm or animal breeding center –
	Zoology Paper-XV	**DSE-E31 (Applied Zoology - II)**
	Unit 5: Fish Technology	Genetic improvements in aquaculture industry: : 1. Induced breeding 2. Transportation of fish seed 3. Feeding and development 4. Harvesting and Marketing
	Unit 6 : Goat Farming	1. Breeds 2. Feeding 3. Housing 4. Economic Importance
	Zoology Paper- XVI	**DSE-F32 (Insect Vectors and Histology)**
	Unit I: Dipteran as Disease Vectors	1. Dipteran as important insect vectors : a. Mosquitoes b. Sand fly c. Houseflies
	Zoology Practical–IV	
December		**b) mosquito borne diseases** – Malaria,dengue,chikungunya,encephalitis, filariasis **c) Study of sandfly borne diseases** – Visceral leishmanians, Cutaneous leishmanians, Phlebotomus fever **d) Study of housefly born diseases** – Myiasis **e) Study of flea borne diseases** – Plague, typhus

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	Zoology Practical – II	
	Revision **B] Immunology**	1. Study of lymphoid organ's 2. Histological study of: 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 line
	Zoology Paper- XVI	**DSE-F32 (Insect Vectors and Histology)**
	Unit I: Dipteran as Disease Vectors	**2. Study of mosquito borne 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
January	**Zoology Practical–IV**	
	Revision	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
	Zoology Practical – II	
	Revision **Unit 1: Applied Zoology**	**1.Apiculture** : a. Casts of Honey Bees b. Bee Hive c. Pollen Basket d. Sting Apparatus e. Honey f. Newton's model of Bee Hive 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
	Zoology Paper- XIII DSE-E30 (DEVELOPMENTAL BIOLOGY OF VERTEBRATES)	
	Unit 3: Chick Embryology	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
	Zoology Practical – II	
March	**Revision**	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 10. Endocrine glands – Thyroid, Parathyroid, Adrenal and Pancreas. 9. Visit to seashore/water reservoir/animal sanctuary to study animal diversity.

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	Zoology Practical – II	
	Revision **Unit 1: Applied Zoology**	**9. Freshwater prawn culture :** a. Species of Prawn b. Site selection c. Farm Construction d. Production system e. Harvesting **10. Goat farming :** a. Breeds b. Housing c. Feeding
	Practical Examination	
April	**Zoology Paper- XIII DSE-E30 (DEVELOPMENTAL BIOLOGY OF VERTEBRATES)**	
	Unit 3: Chick Embryology	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
May	**Send to exam**	

signature of Teacher

Head
Department of Zoology
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Annual Teaching Plan

Mr. Shivam P. Jagtanade

Academic Year – 2023-24 **Class- B.Sc. I**

Subject- Zoology **Paper No.- II**

Month	Topic / Unit	Sub-unit Planned
Sem I **03/07/2023 to 11/11/2013** **July**	Paper II Evolutionary Biology Unit 2: History of Life	a. Introduction to syllabus b. Major Events in History of Life c. Introduction to theories of origin of life d. study of theory of chemical evolution
August	Introduction to Evolutionary Theories Practical	- Lamarckism - Darwinism - Neo-Darwinism Study of Amoeba, Euglena, Plasmodium, Paramecium, its classification and locomotion
September	Direct Evidences of Evolution Practical	- Types of fossils - formation of fossils - dating of fossils - Study of Sycon, Hyalonema, Euplectella, Obelia, Physalia, Aurelia, Tubipora, Metridium, Taenia solium, (Male and female) Ascaris lumbricoides ,Aphrodite, Nereis, Pheretima, Hirudinaria,
October	Extinction Practical	- Mass extinction (Causes, Names of five major extinctions, K-T extinction in detail) - Role of extinction in evolution - Study of Palaemon,Cancer, Limulus, Palamnaeus, Scolopendra, Julus, Periplaneta, Apis, Chiton, Dentalium, Pila, Unio, Loligo, Sepia, Octopus, Pentaceros, Ophiura, Echinus, Cucumariaand Antedon, - Study of fossil evidences from plaster cast model sand pictures.
November **11/11/2023** **Term end**	Send to exam	

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Sem II **24/11/2023 to 14/05/2024**	Paper III Animal Diversity and Insect Vectors	
November	Unit: II : Insect Vectors	- Introduction to syllabus
December	1. Mosquito as an insect vector Practical	Mosquito born diseases with respect to causal organism, life cycle and symptoms a. Malaria b. Dengue - Preparation of haemin crystals - Preparation of blood smear and identification of ABO and Rh blood groups
January	Practical	c. Chikungunya - Control Measures of mosquitoes - Mitochondria – Stained preparation of mitochondria from Oral mucosal cells by using Janus Green -B stain - Polytene Chromosomes – Stained preparation of polytene chromosome in Chironomous larva/Drosophila larva. - Demonstration of Rat to study, Digestive system, Lungs, Heart, Kidney, Testis, Ovary and Brain of Rat
February	2. Housefly as an important mechanical vector Practical	Housefly born diseases with respect to Causal organism, life cycle, symptoms - Myiasis - Control Measure of housefly - Study of Mendelian Inheritance and gene interactions (Non-Mendelian Inheritance) using suitable examples - Monohybrid & Dihybrid ratio, Incomplete dominance, Co-dominance, Multiple alleles, Sex linked inheritance, Linkage, Crossing over and Gene interaction

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March	3. Flea as an insect vector Practical	Flea born diseases with respect to Causal organism, life cycle and symptoms a. Plague b. Typhus fever - Control of fleas - Study of following insect vectors through permanent slides or photographs 1. Mosquito born diseases (Causal organism, symptoms and control measures) a. Malaria b. Dengue c. Chikunguniya 2. Housefly born diseases (Causal organism, symptoms and control measures) a. Myiasis 3. Flea born diseases (Causal organism, symptoms and control measures) a. Plague b. Typhus fever
April	Send to Exam	
May **14/05/2023** **Term end**		

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Annual Teaching Plan

Mr. Shivam P. Jaganade

Academic Year – 2023-24 **Class- B.Sc. II**

Subject- Zoology **Paper No.- VI**

Month	Topic / Unit	Sub-unit Planned
Sem I **03/07/2023 to 11/11/2013** **July**	Paper V- ANIMAL DIVERSITY-II Unit I: Hemichordata	- Introduction to syllabus - General characters and Classification
August	Protochordata Agnatha	- General characters and Classification of Protochordata - General characters of Agnatha and Classification of cyclostomes up to classes
September	Pisces Aves	- General characters and Classification up to orders - General characters and Classification up to orders
October	Paper-VI BIOCHEMISTRY Unit III: Enzymes	1) Introduction, Classification and Nomenclature 2) Mechanism of enzyme action 3) Enzyme Kinetics 4) Inhibition and Regulation 5) Isoenzymes, Co-enzymes and Co-factors.
November **11/11/2023** **Term end**		
Sem II **24/11/2023 to 14/05/2024**		

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December	Paper-VIII APPLIED ZOOLOGY-I Unit IV: Insects of Economic Importance:	- Introduction to syllabus Biology, Control and damage caused by 1) Gram pod borer (Helicoverpa armigera) 2) Sugarcane leaf hopper (Pyrilla perpusilla) 3) Lemon Butterfly (Papilio demoleus) 4) Pulse Beetle (Callosobruchus chinensis) 5) Rice Weevil (Sitophilus oryzae) 6) Red Flour beetle (Tribalism castaneum)
January	Unit V: 1. Poultry Farming:	1) Principles of poultry breeding. 2) Indigenous and Exotic poultry breeds 3) Management of breeding stock and broilers, 4) Processing and Preservation of eggs.
February	2. Sericulture	a. Life cycle of Bombyx mori b. Types of silkworm c. Rearing equipments d. Diseases and management e. Cocoon formation and Economic importance of silk
March	Paper-VII REPRODUCTIVE BIOLOGY Unit V: Contraceptive Methods:	a. Temporary methods b. Permanent Methods
April	Send to Exam	
May **14/05/2023** **Term end**		

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Annual Teaching Plan

Mr. Shivam P. Jaganade

Academic Year – 2023-24 **Class- B.Sc. III**

Subject- Zoology **Paper No.- X, XII**

Month	Topic / Unit	Sub-unit Planned
Sem I **03/07/2023 to 11/11/2013** **July**	Paper X Molecular Cell Biology and Animal Biotechnology Unit 3 : Molecular Techniques in Gene manipulation	e. Introduction to syllabus 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
August	Practical	5. Southern, Northern and Western blotting 6. DNA sequencing: Sanger method 7. Polymerase Chain Reaction 8. DNA Finger Printing 9. DNA micro array - Chromatography – Separation of amino acid by paper chromatography - DNA isolation - Demonstration of DNA by feulgan technique
September	Unit 1: Molecular Biology Unit 2: Protein synthesis	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 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

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	Practical	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
	Paper- XII- (AQUATIC BIOLOGY) Unit 2: Freshwater Biology Unit 3: Endocrinology	1. Lakes i) Lake as an Ecosystem ii) Lake Morphometry iii) Physico-chemical characteristics a. Light b. Temperature c. Thermal Stratification d. Dissolved solids e. Carbonates f. Bicarbonates g. Phosphates and Nitrates h. Turbidity i. Dissolved gases (Oxygen Carbon dioxide) j. Nutrient Cycle – (Nitrogen, Sulphur and Phosphorus) 2.Streams a. Different stages of stream development b. Physico-chemical Environment c. Adaptation of hill stream fishes a. Study of endocrine glands – Anatomy and histology b. Hormones- Nature, role, regulation and disorders with reference to the following 1. thyroid gland, 2. parathyroid gland, 3. adrenal gland and 4. islets of Langerhans
November 11/11/2023 Term end	Send to exam	
Sem II 24/11/2023 to 14/05/2024	Paper III Animal Diversity and Insect Vectors	

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November	Unit: II : Insect Vectors	- Introduction to syllabus
December	1. Mosquito as an insect vector Practical	Mosquito born diseases with respect to causal organism, life cycle and symptoms d. Malaria e. Dengue - Preparation of haemin crystals - Preparation of blood smear and identification of ABO and Rh blood groups
January	Practical	f. Chikungunya - Control Measures of mosquitoes - Mitochondria – Stained preparation of mitochondria from Oral mucosal cells by using Janus Green -B stain - Polytene Chromosomes – Stained preparation of polytene chromosome in Chironomous larva/Drosophila larva. - Demonstration of Rat to study, Digestive system, Lungs, Heart, Kidney, Testis, Ovary and Brain of Rat
February	2. Housefly as an important mechanical vector Practical	Housefly born diseases with respect to Causal organism, life cycle, symptoms - Myiasis - Control Measure of housefly - Study of Mendelian Inheritance and gene interactions (Non-Mendelian Inheritance) using suitable examples - Monohybrid & Dihybrid ratio, Incomplete dominance, Co-dominance, Multiple alleles, Sex linked inheritance, Linkage, Crossing over and Gene interaction
March	3. Flea as an insect vector Practical	Flea born diseases with respect to Causal organism, life cycle and symptoms c. Plague d. Typhus fever - Control of fleas - Study of following insect vectors through permanent slides or photographs 1. Mosquito born diseases (Causal organism, symptoms and control measures) a. Malaria b. Dengue c. Chikungunya 2. Housefly born diseases (Causal organism, symptoms and control

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		measures) a. Myiasis 3. Flea born diseases (Causal organism, symptoms and control measures) a. Plague b. Typhus fever
April	Send to Exam	
May **14/05/2023** **Term end**		

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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal

Designation : Asso-professer

Class: B.Sc. I

Semester :- II

Department : Mathematics

Paper: IV

Paper Title :- Basic Algebra

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	December	Introduction Functions, divisibility and congruence	1.1 Set, Relations on sets, type of relations, equivalence relations, Equivalence classes and partitions of a set. 1.2 Functions: One-one, onto functions and bijections, composition of functions (Definitions and examples). 1.3 The induction principle and strong induction principle. 1.4 Divisibility and congruence: 1.4.1 The division algorithm: Theorem and its applications. 1.4.2 Definitions of Greatest common divisor least common multiple.	12
2	January		1.4.3 Euclidean Algorithm. 1.4.4 Fundamental Theorem of Arithmetic. 1.4.5 The theory of Congruence: Basic Properties of congruence. 2.1 Complex numbers (Revision): Sums and Products, Basic Algebraic Properties, Moduli, complex conjugates and polar representation of complex numbers. 2.2 Theorem: De Moivre's theorem. 2.2.1 $n\,th$ roots of unity. 2.2.2 Examples	12

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal

Designation : Asso-professer

Class: B.Sc. I

Semester :- I

Department : Mathematics

Paper: I

Paper Title :- Calculus

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	Introduction— Limit, Continuity and Differentiability	**Introduction and syllabus discussion** 1.1 Limits: $\varepsilon - \delta$ definition, infinite limit ($\to \infty$ as $x \to c$), limit at infinity ($f \to l$ as $x \to \infty$ and $f \to \infty$ as $x \to \infty$) . 1.2 Left hand and Right hand limits: definition and examples. 1.3 Properties of limits: Theorem: If f and g are two functions defined on some neighbourhood of c such that $\lim x \to c\ f(x) = l$, $\lim x \to c\ g(x) = m$ then (i) $\lim x \to c\ (f + g)(x) = l + m$ (ii) $\lim x \to c\ (f - g)(x) = l - m$ (iii) $\lim x \to c\ (f \cdot g)(x) = lm$ (iv) $\lim x \to c\ (f/g)(x) = l/m$ if $m \neq 0$ (without proof) 1.4 Evaluation of limit: Examples (using techniques like factorization, rationalization, Left hand and Right hand limits etc.).	04
2	August		1.5 Continuous functions: definition of Continuity at a point, definition of continuity in an interval. 1.6 Properties of continuous functions: 1.6.1 Theorem: Let f and g be two	16

			simple examples 1.10 Theorem: A function which is uniformly continuous on an interval is continuous on that interval. 1.11 Differentiability at a point and Differentiability in an interval: definitions. 1.12 Examples on 1.11 1.13 (Differentiability and continuity) Theorem: A function which is derivable at a point is necessarily continuous at that point	
3	September	Mean Value Theorems, Successive Differentiation, Expansions of functions	2.1 Mean Value Theorems 2.1.1 Rolle's Mean Value Theorem, Geometrical interpretation. 2.1.2 Lagrange's Mean Value Theorem, Geometrical interpretation. 2.1.3 Cauchy's Mean Value Theorem. 2.1.4 Examples on 2.1.1, 2.1.2, 2.1.3. 2.2 Successive Differentiation 2.2.1 Higher order derivatives: notations. 2.2.2 Calculation of nth derivative: Standard results $(ax + b)m$, $1/(ax + b)$, $\log(ax + b)$, $a\ mx$, $e\ mx$, $\sin(ax + b)$, $\cos(ax + b)$, $e\ ax \sin(bx + c)$, $e\ ax \cos(bx + c)$. 2.2.3	14
4	October		Determination of nth derivative: examples. 2.2.4 Leibnitz's Theorem. 2.2.5 Examples on 2.2.4. 2.3 Expansion of functions 2.3.1 Maclaurin's theorem (Statement only), examples using Maclaurin's theorem. 2.3.2 Taylor's theorems (Statement only), examples using Taylor's theorem.	06

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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal **Designation : Asso-professer**

Class: B.Sc. I **Semester :- I**

Department : Mathematics **Paper: II**

Paper Title :- Differential Equation

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	Introduction Ordinary differential equations of first order and first degree	Definition, Order and Degree, Exact differential equations, Necessary and sufficient condition for exactness, Differential equations reducible to exact, Integrating factors with rules	04
2	August		Linear differential equations, Differential equations reducible to linear differential equation, Bernoulli's differential equations. Orthogonal trajectories, orthogonal trajectories to Cartesian and polar curves. Differential equations of first order but not of first degree: Equations that can be factorized, Equations solvable for p, Equations that cannot be factorized, Equations solvable for x, Equations solvable for y and Clairaut's form.	16

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal

Designation : Asso-professer

Class: B.Sc. I

Semester :- II

Department : Mathematics

Paper: III

Paper Title :- Multivariable Calculus

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	December	Introduction Partial differentiation	Functions of two variables: domain, Neighbourhood of a point, Continuity of functions of two variables (at a point), Limit of functions of two variables, Partial derivatives: first order partial derivatives, partial derivatives of higher order, Geometrical interpretation of partial derivatives, examplesHomogeneous functions: definition, Euler's theorem on homogeneous functions (Case of two and three variables), examples using Euler's theorem. Total Differentials, Differentiation of composite functions, examples, Implicit function: first and second order derivative of implicit functions and its examples	12
2	January		. Taylor's theorem for a function of two variables, its examples. Maxima and minima of functions of two variables: Condition for existence of maxima or minima, stationary and extreme points, Sign of quadratic expression, Lagrange's condition for maximum and minimum	12

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal **Designation :**

Class: B.Sc. II **Semester :- III**

Department : Mathematics **Paper: V**

Paper Title :- Differential Equation

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	Introduction--	**Introduction and syllabus discussion**	02
2	August	Homogeneous Linear Differential Equation	**Unit 1 Homogeneous Linear Differential Equation** Definition: Homogeneous linear differential equation (Cauchy - Euler differential equation). Method of solution and examples. Definition: Legendre's linear differential equation. Method of solution of Legendre's linear differential equation and examples.Second order linear differential equations Definition (general form): Second order linear differential equation. Methods of solution of Second order linear differential equation. Complete solution when one integral is known: method and examples. Transformation of the equation by changing the dependent variable (removal of first order derivative) and examples. . Transformation of the equation	18

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal

Designation :

Class: B.Sc. II

Semester :- IV

Department : Mathematics

Paper: VIII

Paper Title :- Integral Calculus

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	January	Gamma and Beta Function	**Unit 1. Gamma and Beta Function.** 1.1 Gamma function. 1.1.1 Definition of Gamma function and examples. 1.1.2 Properties of Gamma function1.1.2.7 Examples based on article 1.1.2 1.2 Beta function. 1.2.1 Definition of Beta function and examples. 1.2.2 Properties of Beta function. 1.2.2.8 Duplication formula of Gamma function. 1.2.2.9 Examples based on article 1.2.2	21
2	February	Differentiation under integral sign	**Unit 2. Differentiation under integral sign.** Error functions and Multiple integrals . 2.1 Differentiation under integral sign 2.1.1 Leibnitz first rule of differentiation under integral sign. 2.1.2 Leibnitz second rule of differentiation under integral sign. 2.1.3 Examples based on articles 2.1.1 and 2.1.2 2.2 Error functions 2.2.1 Definition of erf(xx) , erfc (x) and examples. 2.2.2 Properties of error functions. 2.2.2.1 erf(0) = 0, erf (∞) = 1 2.2.2.2 erf(xx) + erfc (x) = 1	20

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal

Designation :

Class: B.Sc. II

Semester :- III

Department : Mathematics

Paper: VI

Paper Title :- Numerical Methods

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	September	Solutions of Algebraic and Transcendental Equations	**Unit 1 Solutions of Algebraic and Transcendental Equations** Introduction .Mathematical Preliminaries Bisection Method .Method of False position. Newton- Raphson method Examples based on art.	12
2	Octomber	Numerical Integration	Interpolation. Introduction . Finite differences. Forward differences Backward differences Symbolic relations and Separation of symbols. Newton's formulae for Interpolation .Newton's forward difference interpolation formula. Newton's backward difference interpolation formula . Interpolation with Unevenly Spaced Points . Lagrange's Interpolation Formula . Examples based on art. **Unit 2 Numerical Integration** . General formula. Trapezoidal rule .Simpson's 1/3-rule. Simpson's 3/8- rule. Examples based on art. Solutions of Linear system of	20

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A.Dudhal

Designation :

Class: B.Sc. II

Semester :- IV

Department : Mathematics

Paper: VII

Paper Title :- Vector Calculus

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	November	Introduction--	**Introduction and syllabus discussion**	04
2	December	Differential Operators	**Unit 1 Differential Operators**1.1 Scalar and Vector valued Point functions 1.2 Limit and continuity of a scalar and vector point functions 1.3 Directional Derivatives of scalar and vector Point Functions & examples 1.4 The Operator ∇ 1.5 Gradient of a Scalar Point Function & examples 1.6 Geometrical Interpretation of grad Ø, where Ø is a scalar point function 1.7 Divergence and Curl of vector point function 1.7.1 Definition of where f is a vector point function 1.7.2 Expressions of in terms of components of f 1.7.3 Characters of div f and curl f as point functions 1.7.4 Problems based on 1.7 1.8 Gradient, Divergence and Curl of Sums 1.9 Gradient, Divergence and Curl of Product 1.10 Second Order Differential Operators 1 1.11 The Laplacian Operator, ∇2 and	24

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. A. A. Bandgar

Designation :

Class: B.Sc. III

Semester :- V

Department : Mathematics

Paper: DSE – E10

Paper Title :- Abstract Algebra

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	Introduction--	**Introduction and syllabus discussion** Groups: Definition and examples of groups, group S3 and Dihedral group D4,Commutator subgroups and its properties	04
2	August	**Groups**	Conjugacy in group and class equation. Rings: Definition and example of Rings, Ring with unity. Zero divisor, Integral Domain, Division Ring, Field,	10
3	September	**Rings**	Boolean ring, Subring, Characteristic of a ring: Nilpotent and Idempotent elements. Ideals, Sum of two ideals, Examples. Simple Ring.Quotient Rings, Homomorphism, Kernel of Homomorphism ,Isomorphism theorems,imbedding of Ring. Maximal Ideals..	10
4	October		Polynomial Rings, degree of Polynomial, addition and multiplication of Polynomials and their properties, UFD, Gauss' Lemma	08

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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. A. A. Bandgar

Designation :

Class: B.Sc. III

Semester :- VI

Department : Mathematics

Paper: DSE – F11

Paper Title :- Complex Analysis

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	December	**Analytic functions and Complex Integration**	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	06
2	January		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.	10
3	February	**Sequences, Series and Residue Calculus**	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	10

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. A. A. Bandgar

Designation :

Class: B.Sc. III

Semester :- VI

Department : Mathematics

Paper: DSE – F12

Paper Title :- Discrete Mathematics

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	December	**Mathematical Logic**	The logic of compound statements: Statements, compound statements, truth values, logical equivalence, tautologies and contradictions, Conditional statements: Logical equivalences involving implication, negation.	06
2	January		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, quintal, octal, hexadecimal number systems and their conversions.	10

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R. A. Dudhal

Designation :

Class: B.Sc. III

Semester :- V

Department : Mathematics

Paper: DSE – E12

Paper Title :- Integral Transform

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	**Laplace and Inverse Laplace Transform.**	**Introduction and syllabus discussion** 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 theoremand examples,Change of scale propertyand examples, Laplace transform of derivativesand examples, Laplace transform of integralsand examples.Multiplication by power of tand examples	04
2	August		.Division by tand 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 theoremand examples.Change of scale propertyand 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	10

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. R.A. Dudhal

Designation : Asso-professor

Class: B.Sc. III

Semester :- VI

Department : Mathematics

Paper: DSE – F10

Paper Title :- Linear Algebra

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	December	**Vector Spaces and Linear Transformations**	**Introduction and syllabus discussion** 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.	06
2	January		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.	10
3	February	**Inner Product Spaces, Eigen values and Eigen vectors**	Inner product spaces: Norm of a vector, Cauchy- Schwarz inequality, Orthogonality, Generalized Pythagoras Theorem, orthonormal set, Gram-Schmidt orthogonalization process, Bessel's	12

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. A. A. Bandgar

Designation :

Class: B.Sc. III

Semester :- V

Department : Mathematics

Paper: DSE – E9

Paper Title :- Mathematical Analysis

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	Introduction–	**Introduction and syllabus discussion** Definition of Riemann integration, Inequalities for lower and upper Darboux sums, Necessary and sufficient conditions for Riemann integrability	04
2	August	**Riemann Integration**	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	10
3	September		Improper Integrals: Definition of improper integral of first kind, Comparison test, – 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	10
4	October	**Improper Integrals and Fourier Series**	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	08

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. A. A. Bandgar

Designation :

Class: B.Sc. III

Semester :- VI

Department : Mathematics

Paper: DSE – F9

Paper Title :- Metric Spaces

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	December	**Limits and Continuous Functions on Metric Spaces**	Limit of a function on the real line, Metric Spaces, Limitsin Metric Spaces	06
2	January		Functions continuous at a point on the real line, Reformulation, Functions continuous on a metric space, Open Sets, Closed Sets, More about open sets.	10
3	February	**Connectedness, Completeness and Compactness**	Connected Sets, Bounded sets and totally bounded sets,Complete metric spaces,	10
4	March		Compact metric spaces, Continuous functions on compact metric spaces.	06

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya , Kavathe Mahankal

Department Of Mathematics

Annual Teaching Plan : 2023-2024

Name of the Teacher : Prof. A. A. Bandgar

Designation :

Class: B.Sc. III

Semester :- V

Department : Mathematics

Paper: DSE – E11

Paper Title :- Optimization Techniques

Sr. No.	Month	Main Topic/Unit	Subtopic	No. of Periods required
1	July	**Network optimization models**	**Introduction and syllabus discussion** 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 Programmingproblems.	04
2	August		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	10

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA
KAVATHE MAHANKAL, Dist. Sangli (Maharashtra) Pin- 416 405
Principal Prof. (Dr.) M. K. Patil M.Sc., M. Phil., Ph.D. Mob.**9421185277**
Phone-02341-295220 Email: kmpvp@rediffmail.com Website: www.pvpkm.ac.in
Jr. College Index No. J 22.04.002

DEPARTMENTAL TIME-TABLE

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya,
Kavathe Mahankal

Department of English
P.V.P. Mahavidyalaya,
Kavathe Mahankal,
Dist-Sangli.

DEPARTMENT OF ENGLISH

INDIVIDUAL TIME TABLE

Academic Year: 2023-24

FACULTY LIST

1. Mr. Kamble S. S.
2. Mr. Shinde N. P.
3. Dr. Solage S. P.
4. Mr. Gadhire S. S.
5. Mr. Shinde R. R.

Head
Department of English,
P.V.P. Mahavidyalaya,
Kavathe-Mahankal.

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal, Dist.Sangli.

Department of English
P.V.P. Mahavidyalaya,
Kavathe-Mahankal,
Dist-Sangli.

Mr. Kamble S. S.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

DEPARTMENT OF ENGLISH

TIME-TABLE OF 2023-24

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07:35am to 08:23am		B.A-II Comp. (A)	B.A.-III Drama	B.A.-I Comp. (A)		
2	08:23am to 09:11am	B.A.-I Comp. (A)	B.A.-I Comp. (A)		B.A-II Comp. (A)	B.A.-I Addi. English	B.A.-III Drama
3	09:11am to 09:59am	B.A.-III Drama		B.A-III Comp. (A)	B.A.-I Addi. English	B.A.-I Comp. (A)	B.A-III Comp. (A)
4	10:12am to 11:00am		B.A.-III Drama			B.A-III Comp. (A)	B.A-II Comp. (A)
5	11:00am to 11:48am		B.A-III Comp. (A)				
6	11:48am to 12:36pm					B.A-II Comp. (A)	
7	12:36pm to 01:24pm						

Teacher
Mr. Kamble S. S.

Head
Department of English

Head
Department of English,
P.V.P. Mahavidyalaya,
Kavathe-Mahankal.

Principal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist.Sangli

Department of English
P.V.P. Mahavidyalaya,
Kavathe-Mahankal,
Dist-Sangli.

Mr. Shinde N. P.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

DEPARTMENT OF ENGLISH

TIME-TABLE OF 2022-2023

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07:35am to 08:23am	B.A.-III Novel	B.A-II Comp. (B)	B.A.-I (Opt.)	B.Com.-II Comp.	B.A.II P. IV/VI	B.A.-III Novel
2	08:23am to 09:11am	B.A.II P. IV/VI	B.A.-III Novel	B.A.-III Novel	B.A-II Comp. (B)	B.A.II P. IV/VI	B.Com.-II Comp.
3	09:11am to 09:59am	B.Com.-II Comp.	B.A.-I (Opt.)				B.A.-I (Opt.)
4	10:12am to 11:00am		B.Com.-II Comp.		B.A.-I (Opt.)		B.A-II Comp. (B)
5	11:00am to 11:48am						B.A.II P. IV/VI
6	11:48am to 12:36pm					B.A-II Comp. (B)	
7	12:36pm to 01:24pm						

Teacher

Head
Department of English

Head
Department of English,
P.V.P. Mahavidyalaya,
Kavathe-Mahankal.

Principal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe-Mahankal Dist.Sangli

Department of English
P.V.P. Mahavidyalaya,
Kavathe-Mahankal,
Dist-Sangli.

Dr. Solage S. P.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

DEPARTMENT OF ENGLISH

TIME-TABLE OF 2023-24

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07:35am to 08:23am		B.A-II Comp. (C)		B.A.-I Comp. (B)		
2	08:23am to 09:11am	B.A.-I Comp. (B)	B.A.-I Comp. (B)		B.A-II Comp. (C)	B.A.-III Poetry	
3	09:11am to 09:59am				B.A.-III Poetry	B.A.-I Comp. (B)	
4	10:12am to 11:00am	B.A.-III Poetry		B.A.-III Poetry			B.A-II Comp. (C)
5	11:00am to 11:48am						
6	11:48am to 12:36pm					B.A-II Comp. (C)	B.Sc.-I Comp.
7	12:36pm to 01:24pm	B.Sc.-III Comp.	B.Sc.-III Comp.		B.Sc.-I Comp.		
8	01:30pm to 02:15pm	B.Sc.-III Comp.	B.Sc.-III Comp.	B.Sc.-I Comp.		B.Sc.-I Comp.	

Teacher

Head
Department of English

Head
Department of English,
P.V.P. Mahavidyalaya,
Kavathe-Mahankal.

Principal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K-Mahankal, Dist-Sangli

Department of English
P.V.P. Mahavidyalaya,
Kavathe-Mahankal,
Dist-Sangli.

Mr. Gadhire S. S.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

DEPARTMENT OF ENGLISH

TIME-TABLE OF 2023-24

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07:35am to 08:23am						
2	08:23am to 09:11am	B.A.-I Comp. (C)			B.A.-III Linguistics		
3	09:11am to 09:59am		B.A.-III Linguistics	B.A.-II Linguistics		B.A.-III Linguistics	B.A.-II Linguistics
4	10:12am to 11:00am				B.A.-III Linguistics	B.A.-II Linguistics	
5	11:00am to 11:48am		B.A.-II Linguistics				
6	11:48am to 12:36pm						
7	12:36pm to 01:24pm						

Teacher

Head
Department of English

Head
Department of English,
P.V.P. Mahavidyalaya,
Kavathe-Mahankal

Principal
P. V. P. Mahavidyalaya,
K. Mahankal, Dist. Sangli

PRINCIPAL
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe-Mahankal, Dist. Sangli

Department of English
P.V.P. Mahavidyalaya,
Kavathe-Mahankal,
Dist-Sangli.

Mr. Shinde R. R.

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, KavatheMahankal

DEPARTMENT OF ENGLISH

TIME-TABLE OF 2023-24

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07:35am to 08:23am		B.A.-III Criticism	B.A.-II P. III/V	B.A.-III Criticism	B.A.-III Criticism	
2	08:23am to 09:11am	B.A.-III Criticism					
3	09:11am to 09:59am		B.A.-II P. III/V	B.A.-I Addi. English			
4	10:12am to 11:00am				B.A.-II P. III/V		
5	11:00am to 11:48am						
6	11:48am to 12:36pm						B.A.-II P. III/V
7	12:36pm to 01:24pm						

Teacher
Mr. Shinde R. R.

Head,
Department of English

Head
Department of English,
P.V.P. Mahavidyalaya,
Kavathe-Mahankal.

Principal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathemahankal, Dist-Sangli

Department of English
P.V.P. Mahavidyalaya,
Kavathe-Mahankal,
Dist-Sangli.



PADMABHUSHAN VASANTRAODADA PATIL
MAHAVIDYALAYA,
KAVATHE MAHANKAL, DIST. SANGLI

DEPARTMENT OF HINDI

TIME-TABLE

(DEPARTMENTAL & INDIVIDUAL)

(Academic Year 2018-19 to 2023-24)

Edit with WPS Office

P.V.P College, Kavathe Mahankal

Department of Hindi

Departmental Time-Table

(Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23	VSS-II DPT-III	VSS - III com,Eng-II	VSS-OPT - I DPT- III	VSS-III Com,Eng-I	VSS-III	VSS-II DPT-III
2.	08.23 to 09.11	VSS-III Com,Eng-I	DPT-III Com,Eng-I	VSS-III	DPT-III Com,Eng-II	DPT-COM-1	DPT-II VSS-III
3.	09.11 to 09.59	DPT-III	VSS-OPT-I DPT-III	VSS-COM - I Com,Eng-III	VSS-COM-I DPT-II	VSS - III Com,Eng-I	DPT-OPT-I Co-Eng-III
4.	10.12 to 11.00	VSS-II DPT-III	DPT-II VSS-III	DPT - III	DPT-OPT -I VSS-III	Com,Eng - III	DPT-CO-I VSS-III Com,Eng-II
5.	11.00 to 11.48		Com,Eng-III	DPT-II	DPT-III	VSS-II	

विभाग प्रमुख
हिंदी विभाग
पद्मभूषण वसंतरावदादा पाटील
महाविद्यालय, कवठेमहांकाळ

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

Edit with WPS Office

Personal Time-Table

(Academic Year 2023-2024)

Dr.Vinayak Shinde

Assistant Professor,
Department of Hindi

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07:35 to 08:23	B.A. II	B.A.III	B.A.I (Opt)	B.A. III	B.A. III	B.A. II
2.	08:23 to 09:11	B.A.III		B.A.III			B.A.III
3.	09:11 to 09:59		B.A.I (Opt)	B.A.I (Com)	B.A.I(Com)	B.A.III	
4.	10:12 to 11:00	B.A.II	B.A.III		B.A.III		B.A.III
5.	11:00 to 11:48					B.A.II	

Workload

Class	Paper No.	Periods Allotted
B.A. I	P. A & B (Com Hindi)	02
B.A. I	P. I & II (Opt Hindi)	02
B.A. II	P. IV & VI	04
B.A. III	P. VII & XII	04
B.A. III	P. IX & XIV	04
B.A. III	P. XI & XVI	02
	Total	18

Teacher Name & Signature

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

Edit with WPS Office

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli.

Personal Time – Table

(Academic Year 2023-24)

Dr. Dharmendra Pandit Thorat.
Asst. Professor.
Department of Hindi

Period	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07.35 to 08.23			DPT II	DPT III	DPT I (Com)	DPT III
2	08.23 to 09.11				DPT II	DPT III	
3	09.11 to 09.59	DPT II		DPT III		DPT I (Opt.)	DPT I (Opt.)
4	10.12 to 11.00	DPT III	DPT III		DPT III	DPT II	DPT I (Com)
5	11.00 to 11.48		DPT II	DPT III			DPT III
6	11.48 to 12.30						

Class	Paper No.	Periods Allotted
B.A. I	P. A & B (Com. Hindi)	02
B.A. I	P. I & II (Opt. Hindi)	02
B.A. II	P. III & V	04
B.A. III	P. VIII & XIII	04
B.A. III	P. XI & XVI	04
B.A. III	P. X & XV	02

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

Dr. D.P. Thorat

ShikshanPrasarakSanstha's

PadmabhushanVasantraodadaPatilMahavidhyalaya, KavatheMahankal

DEPARTMENT OF MARATHI

Departmental Time-Table

Academic Year: 2023-2024

Period No.	Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	07:35 to 08:23 AM	B.A.III(MGL)	B.A.III(SLA)	B.A.I(opt.) A (MGL) B (ABR) C (SLA)	B.A.II (ABR) B.A.III(SLA)	B.A.III(ABR)	B.A.III(MGL)
2	08:23 to 09:11 AM	B.A.III(SLA)	B.A.II (SLA) B.A.III(ABR)	B.A.II (SLA) B.A.III(ABR)	B.A.III(MGL)	B.A.I(comp.) A (SLA) B (ABR) C (MGL)	B.A.III(MGL)
3	09:11 to 09:59 AM	B.A.II (ABR) B.A.III(SLA)	B.A.I(opt.) A (MGL) B (ABR) C (SLA)	B.A.I(comp) A (SLA) B (ABR) C (MGL)	B.A.I(comp.) A (SLA) B (ABR) C (MGL)	B.A.II (SLA) B.A.III(ABR)	B.A.I(opt.) A (MGL) B (ABR) C (SLA)
4	10:12 to 11:00 AM	B.A.III(MGL)	B.A.III(ABR)	B.A.II (ABR) B.A.III(MGL)	B.A.I(opt.) A (MGL) B (ABR) C (SLA)		B.A. I Comp. A (SLA) B (ABR) C (MGL)
5	11:00 to 11:48 AM	B.A.II (SLA)		B.A.III(ABR)	B.A.II (ABR) B.A.III(MGL)	B.A.II(MGL)	B.A.II(SLA)
6	11:48 to 12:36 PM		B.A.III(SLA)				

Dr.M.G.Londe

Dr.M.K.Patil

प्रा. डॉ. मोहन गोविंद लोंढे
एम.ए., एम.फिल., पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
कवठेमहांकाळ, जि. सांगली.

ShikshanPrasarakSanstha's

PadmabhushanVasantraodadaPatilMahavidhyalaya, KavatheMahankal

DEPARTMENT OF MARATHI

Departmental Time-Table

Academic Year: 2023-2024

Dr.M.G.Londe

Period No.	Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	07:35 to 08:23 AM	B.A.III(MGL)		B.A.I (opt.)A(MGL)			B.A.III(MGL)
2	08:23 to 09:11 AM				B.A.III(MGL)	B.A.I (comp.)C(MGL)	B.A.III(MGL)
3	09:11 to 09:59 AM		B.A.I (opt.)A(MGL)	B.A.I(comp) C(MGL)	B.A.I (comp.)C(MGL)		B.A.I (opt.)A(MGL)
4	10:12 to 11:00 AM	B.A.III(MGL)		B.A.III(MGL)	B.A.I (opt.)A(MGL)		B.A.I.Comp. C(MGL)
5	11:00 to 11:48 AM				B.A.III(MGL)	B.A.III(MGL)	
6	11:48 to 12:36 PM						

Dr.M.G.Londe

प्रा. डॉ. मोहन गोविंद लोंढे
एम.ए., एम.फिल, पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
कवठेमहांकाळ, जि. सांगली.

Dr.M.K.Patil

ShikshanPrasarakSanstha's

PadmabhushanVasantraodadaPatilMahavidhyalaya, KavatheMahankal

DEPARTMENT OF MARATHI

Departmental Time-Table

Academic Year: 2023-2024 Dr.S.L.Andelwar

Period No.	Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	07:35 to 08:23 AM		B.A.III(SLA)	B.A.I (opt.) C(SLA)	B.A.III(SLA)		
2	08:23 to 09:11 AM	B.A.III(SLA)	B.A.II (SLA)	B.A.II (SLA)		B.A.I (comp.)A(SLA)	
3	09:11 to 09:59 AM	B.A.III(SLA)	B.A.I (opt.) C(SLA)	B.A.I(comp) A(SLA)	B.A.I (comp.)A(SLA)	B.A.II (SLA)	B.A.I (opt.) C(SLA)
4	10:12 to 11:00 AM				B.A.I (opt.) C(SLA)		B.A.I.Comp. A(SLA)
5	11:00 to 11:48 AM	B.A.II (SLA)					B.A.III(SLA)
6	11:48 to 12:36 PM		B.A.III (SLA)				

Dr.M.G.Londe

प्रा. डॉ. मोहन गोविंद लोंढे
एम.ए., एम.फिल, पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
कवठेमहांकाळ, जि. सांगली.

Dr.M.K.Patil

ShikshanPrasarakSanstha's

PadmabhushanVasantraodadaPatilMahavidhyalaya,

Kavathe Mahankal

DEPARTMENT OF MARATHI

Departmental Time-Table

Academic Year: 2023-2024 Mr.A.B.Rathod

Period No.	Time	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	07:35 to 08:23 AM			B.A.I (opt.)B(ABR)	B.A.II (ABR)	B.A.III(ABR)	
2	08:23 to 09:11 AM		B.A.III(ABR)	B.A.III(ABR)		B.A.I (comp.)B(ABR)	
3	09:11 to 09:59 AM	B.A.II (ABR)	B.A.I (opt.)B(ABR)	B.A.I(comp) B(ABR)	B.A.I (comp.)B(ABR)	B.A.III(ABR)	B.A.I (opt.)B(ABR)
4	10:12 to 11:00 AM		B.A.III(ABR)	B.A.II (ABR)	B.A.I (opt.)B(ABR)		B.A.I.Comp. B.(ABR)
5	11:00 to 11:48 AM			B.A.III(ABR)	B.A.II (ABR)		
6	11:48 to 12:36 PM						

Dr.M.G.Londe

प्रा. डॉ. मोहन गोविंद लोंढे
एम.ए., एम.फिल, पीएच.डी.
प्राध्यापक व मराठी विभाग प्रमुख
पद्मभूषण वसंतदादा पाटील महाविद्यालय
कवठेमहांकाळ, जि. सांगली.

Dr.M.K.Patil

P.V.P. MAHAVIDYALAYA DIST. SANGLI 416 405. KAVATHE MAHANKAL

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Time Table 2023-24

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	**B.A. I** NSS (SHE) **B.A. II** (SNP) **B.A. III** (HVP)	**B.A. I** A (HVP) B (SNP) **B.A. III** (SHE)	**B.A. III** (SNP)	**B.A. III** (SNP)	**B.A. I** A (HVP) B (SNP) **B.A. III** (SHE)	**B.A. II** (SNP) **B.A. III** (HVP)
2	08.23 to 09.11	**B.A. III** (SNP)	**B.A. III** (SNP)	**B.A. III** (HVP)	**B.A. I** NSS (SHE) **B.A. III** (HVP)	**B.A. III** (HVP)	**B.A. I** NSS (SHE) **B.A. II** (HVP) **B.A. III** (SNP)
3	09.11 to 09.59	**B.A. I** A (HVP) B (SNP) **B.A. III** (SHE)	**B.A. III** (HVP)	**B.A. II** (SNP) (HVP)	**B.A. II** (SNP) **B.A. III** (HVP)	**B.A. III** (SNP)	**B.A. II IDS** (ABC) (HVP)
4	10.12 to 11.00	**B.A. II** (SNP) **B.A. III** (HVP)	**B.A. II** (HVP) **B.A. III** (SNP)	**B.A. I** A (HVP) B (SNP) **B.A. III** (ABC)	**B.A. III** (SNP)	**B.A. I** NSS (SHE) **B.A. II IDS** (ABC) (HVP)	-
5	11.00 to 11.48		**B.A. II IDS** (SNP) (HVP)	**B.A. II** (HVP)	-	**B.A. II** (HVP)	-
6	11.48 to 12.36	-	-	-	-	-	-

Head
Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

P.V.P. MAHAVIDYALAYA KAVATHE MAHANKAL DIST. SANGLI 416 405.

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Class wise Time Table 2023-24

Class: B.A. I

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	NSS (SHE)	HIST A (HVP) HIST B (SNP)	-	-	HIST A (HVP) HIST B (SNP)	-
2	08.23 to 09.11	-	-	-	NSS (SHE)	-	NSS (SHE)
3	09.11 to 09.59	HIST A (HVP) HIST B (SNP)	-	-	-	-	-
4	10.12 to 11.00	-	-	HIST A (HVP) HIST B (SNP)	-	NSS (SHE)	-
5	11.00 to 11.48	-	-	-	-	-	-
6	11.48 to 12.36	-	-	-	-	-	-

HEAD

Head
Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

P.V.P. MAHAVIDYALAYA KAVATHE MAHANKAL DIST. SANGLI 416 405.

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Class wise Time Table 2023-24

Class: B.A. II

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	P. IV/VI (SNP)	-	-	-	-	P. IV/VI (SNP)
2	08.23 to 09.11	-	-	-	-	-	P. III/V (HVP)
3	09.11 to 09.59	-	-	HSRM (SNP) AIHC (HVP)	P. IV/VI (SNP)	-	HSRM (ABC) AIHC (HVP)
4	10.12 to 11.00	P. IV/VI (SNP)	P. III/V (HVP)	-	-	HSRM (ABC) AIHC (HVP)	-
5	11.00 to 11.48	-	HSRM (SNP) AIHC (HVP)	P. III/V (HVP)	-	P. III/V (HVP)	-
6	11.48 to 12.36	-	-	-	-	-	-

HEAD
Head
Department of History
Padmabhushan Vasantraodada Pat
Mahavidyalaya, Kavathe Mahankal

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Class wise Time Table 2023-24

Class: B.A. III

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	P. VIII/XIII (HVP)	P. VII/XII (SHE)	P. X/XV (SNP)	P. X/XV (SNP)	P. VII/XII (SHE)	P. XI/XVI (HVP)
2	08.23 to 09.11	P. IX/XIV (SNP)	P. IX/XIV (SNP)	P. XI/XVI (HVP)	P. XI/XVI (HVP)	P. VIII/XIII (HVP)	P. X/XV (SNP)
3	09.11 to 09.59	P. VII/XII (SHE)	P. VIII/XIII (HVP)	-	P. VIII/XIII (HVP)	P. IX/XIV (SNP)	-
4	10.12 to 11.00	P. XI/XVI (HVP)	P. X/XV (SNP)	P. VII/XII (ABC)	P. IX/XIV (SNP)	-	-
5	11.00 to 11.48		-	-	-	-	-
6	11.48 to 12.36	-	-	-	-	-	-

Head

Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

P.V.P. MAHAVIDYALAYA KAVATHE-MAHANKAL DIST. SANGLI 416 405.

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Teacher wise Time Table 2023-24

Teacher`s Name- Mr. Pol S.N.

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	B.A.II P. IV&VI	B.A.I (B) P. I/II	B.A.III P. X/XV	B.A.III P. X/XV	B.A.I (B) P. I/II	B.A.II P. IV&VI
2	08.23 to 09.11	B.A.III P. IX/XIV	B.A.III P. IX/XIV	-	-	-	-
3	09.11 to 09.59	B.A.I (B) P. I/II	-	B.A.II IDS-HSRM	B.A.II P. IV/VI	B.A.III P. IX/XIV	B.A.III P. X/XV
4	10.12 to 11.00	B.A.II P. IV&VI	B.A.III P. X/XV	B.A.I (B) P. I/II	B.A.III P. IX/XIV	-	-
5	11.00 to 11.48	-	B.A.II IDS-HSRM	-	-	-	-
6	11.48 to 12.36	-	-	-	-	-	-

Teacher`s Signature

Head

Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

P.V.P. MAHAVIDYALAYA DIST. SANGLI 416 405.

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Teacher wise Time Table 2023-24

Teacher`s Name- Mr. Pawar H.V.

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	B.A.III P. VIII/XIII	B.A.I (A) P. I/II	-	-	B.A.I (A) P. I/II	B.A. III P. XI/XVI
2	08.23 to 09.11	-	-	B.A. III P. XI/XVI	B.A. III P. XI/XVI	B.A.III P. VIII/XIII	B.A. II P. III/V
3	09.11 to 09.59	B.A.I (A) P. I/II	B.A.III P. VIII/XIII	B.A.II IDS-AIHC	B.A.III P. VIII/XIII	-	B.A.II IDS-AIHC
4	10.12 to 11.00	B.A. III P. XI/XVI	B.A. II P. III/V	B.A.I (A) P. I/II	-	B.A.II IDS-AIHC	-
5	11.00 to 11.48	-	B.A.II IDS-AIHC	B.A. II P. III/V	B.A. II P. III/V	-	-
6	11.48 to 12.36	-	-	-	-	-	-

Teacher`s Signature

HEAD
Head
Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Teacher wise Time Table 2022-23

Teacher`s Name- Mr. Edake S.H.

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	B.A. I N.S.S.	B.A.III P. VII/XII	B.COM. I CIVIL.	-	B.A.III P. VII/XII	-
2	08.23 to 09.11	-	-	-	B.A. I N.S.S.	-	B.A. I N.S.S.
3	09.11 to 09.59	B.A.III P. VII/XII	B.COM. I CIVIL.	-	-	B.A. I N.S.S.	-
4	10.12 to 11.00	-	-	-	-	-	-
5	11.00 to 11.48	-	-	-	-	-	-
6	11.48 to 12.36	-	-	-	-	-	-

Teacher`s Signature

HEAD

Head
Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

Shikshan Prasarak Sanstha`s

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal

DEPARTMENT OF HISTORY

Teacher wise Time Table 2022-23

Teacher`s Name- ABC

Lec. No.	Time	MON	TUE	WED	THU	FRI	SAT
1	07.35 to 08.23	-	-	-	-	-	-
2	08.23 to 09.11	-	-	-	-	-	-
3	09.11 to 09.59	-	-	-	-	-	B.A.II IDS-HSRM
4	10.12 to 11.00	-	-	P. VII/XII (ABC)	B.COM. I CIVIL.	B.A.II IDS-HSRM	-
5	11.00 to 11.48	-	-	-	-	-	B.COM. I CIVIL.
6	11.48 to 12.36	-	-	-	-	-	-

Teacher`s Signature

HEAD

Head
Department of History
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal
Department of Geography (2023-24)

Period No	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07.35-08.23	B.A.I DAG/NSP B.A.III DMG	B.Com-I DMG B.A.III DAG	B.A.III DMG	B.A. II NSP/TEK B.A.III DMG	B.A.III DMG	B.A. III NSP
2	08.23-09.11	B.A.III TEK	B.A. II DMG/SGM B.A. III (P) NSP/TEK	B.A. II DMG/SGM B.A.III TEK	B.A.I DAG/NSP B.A.III TEK	B.A. III NSP	B.A.I DAG/NSP B.A.III TEK
3	09.11-0959	B.A. II NSP/TEK B.A.III DAG	B.A.III (P) DAG/SGM	B.Com-I DMG TGI- DAG	B.A.III (P) DAG/DMG	B.A. II NSP/TEK B.A.III (P) DAG/SGM	TGI- SGM
4	10.[illegible]1.00	B.A.III (P) DAG/DMG	B.A.III (P) NSP/TEK	B.A. II DMG/SGM B.A.III (P) NSP/TEK	B.A.III (P) DAG/DMG	B.A.I DAG/NSP B.Com-I DMG TGI- SGM	B.A III (P) NSP/TEK B.Com-I DMG
5	11.00-11.48	B.A. II DMG/SGM B.A.III (P) NSP/TEK	TGI- DAG B.A.III (P) NSP/TEK	B.A.III (P) DAG/DMG B.Sc.- I (T) VPG	B.A. II NSP/TEK B.A.III (P) DAG/DMG	B.A.III (P) NSP/TEK B.Sc.- I (T) VPG	B.A.III (P) DAG/DMG
6	11.48-12.36	B.A.III (P) DAG/DMG B.Sc.- I (T) VPG	B.Sc.- I (T) VPG B.A.III (P) NSP/TEK		B.A.III (P) NSP/TEK B.Sc.- I (T) VPG	B.A.III (P) DAG/SGM	B.A.III (P) NSP/TEK
7	02.30- 05.30						B.Sc.- I (P) VPG

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli

for H.O.D.
Department of Geography
P. V. P. Mahavidyalaya Kavathe Mahankal
Dist.- Sangli - 416 405

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

Department of Geography

Personal Time Table

(Academic Year 2023-24)

Dr. Dilip Akaram Gade
Associate Professor
Department of Geography

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	7.35-8.23	B. A. I	B. A. III (T)				
2	8.23-9.11				B.A.I DAG/NSP		B.A.I DAG/NSP
3	9.11-9.59	B. A. III (T)	B.A.III (P) DAG/SGM	TGI- DAG	B.A.III (P) DAG/DMG	B.A.III (P) DAG/SGM	
	Short Recess						
4	10.12-11.00	B.A.III (P) DAG/DMG			B.A.III (P) DAG/DMG	B.A.I DAG/NSP	
5	11.00-11.48		TGI- DAG	B.A.III (P) DAG/DMG	B.A.III (P) DAG/DMG		B.A.III (P) DAG/DMG
6	11.48-12.36	B.A.III (P) DAG/DMG				B.A.III (P) DAG/SGM	
7	12.36-1.24						

Workload

Class	Theory/Practical	Paper No.	Periods Allotted
B.A. I	Theory	P. I & II	04
B.A. II IDS	Theory	P. I & II	02
B.A. III	Theory	P. IX & X	02
B.A. III	Practical	P. XIV	10
		Total	**18**

Teacher Name & Signature

Dr. D. A. Gade

P.V.P. MAHAVIDYALAYA, K. Mahankal, Dist. Sangli

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal
Personal Time Table (2023-24)
Dr. N.S. Pol

Period No	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07.35-08.23	B.A.I NSP			B.A. II NSP		B.A. III NSP
2	08.23-09.11		B.A. III (P) NSP		B.A.I NSP	B.A. III NSP	B.A.I NSP
3	09.11-0959	B.A. II NSP				B.A. II NSP	
4	10.12-11.00		B.A.III (P) NSP	B.A.III (P) NSP		B.A.I NSP	B.A.III (P) NSP
5	11.00-11.48	B.A.III (P) NSP	B.A.III (P) NSP		B.A. II NSP	B.A.III (P) NSP	
6	11.48-12.36		B.A.III (P) NSP		B.A.III (P) NSP		B.A.III (P) NSP
7	02.30- 05.30						

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli

Padmabhushan Vasantraodada Patil Mahavidyalaya Kavathe Mahankal
Personal Time Table (2023-24)
Mr. D. M. Godase

Period No	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07.35-08.23	B.A.III DMG	B.Com-I DMG	B.A.III DMG	B.A.III DMG	B.A.III DMG	
2	08.23-09.11		B.A. II DMG	B.A. II DMG			
3	09.11-0959			B.Com-I DMG	B.A.III (P) DMG		
4	10.12-11.00	B.A.III (P) DMG		B.A. II DMG	B.A.III (P) DMG	B.Com-I DMG	B.Com-I DMG
5	11.00-11.48	B.A. II DMG		B.A.III (P) DMG	B.A.III (P) DMG		B.A.III (P) DMG
6	11.48-12.36	B.A.III (P) DMG	B.A.III (P) DMG				
7	02.30- 05.30						

P.V.P. MAHAVIDYALAYA K. Mahankal, Dist. Sangli

(Mr. D. M. Godase)

Personal Time-Table

(Academic Year 2023-2024)

Mrs.V.P.Ghatage

Assistant Professor,

Department of Geography

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.							
2.							
3.							
5.	11.15 to 12.00			B.Sc.-I		B.Sc.-I	
6.	12.00 to 12.45	B.Sc.-I	B.Sc.-I		B.Sc.-I		
7.							
8.	2.30 to 5.30						B.Sc.-I(P)

Workload

Class	Paper No.	Periods Allotted
B.Sc.-I	P. I & II (Practical)	09
	Total	**09**

Teacher Name & Signature

(Mrs.V.P.Ghatage)

Personal Time Table

(Academic Year 2023 – 24

Miss. S.G. Mane
Assistant Professor
Department of Geography

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	07:35 -08.23						
2	08:23 -09.11		B.A. II	B.A.II			
3	09:11 -09.59		B.A.I			B.A.III (P)	TGI
4	10:12 -11.00			B.A.II		TGI	
5	11:00 -11.48	B.A.II					
6	11:48 -12.36					B.A.III (P)	
7	02.30-05.30						

Work Load

Class	Paper No	Periods Allotted
B.A.I, B.A. II, B.A. III	I, IV, I (IDS), XIV	09
	Total	09

Teacher Name & Signature

(Miss. S.G. Mane)

SHIKSHAN PRASARAK SANSTH'S

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL

Department of Economics



Time-Table

(Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23	IVM-BAII(IDS) CBP BCom.III	CBP -BAIII, KLS-BCom.II	KLS-BCom.II CBP -BA.III	IVM-BA.III	KLS-BAII CBP -BAIII IVM BCOM III	KLS-BA.I(A) CBP -BAIII
2.	08.23 to 09.11	KLS-BAII CBP-BAIII IVM BCOM III	CBP - BCom.III IVM-BA.III	CBP - BCom.III KLS-BA.I(A), (B) IVM-BA.III	KLS-BA.III CBP-BCom.I	KLS-BAIII	IVM-BAII(IDS)
3.	09.11 to 09.59	IVM-BA.III	KLS-BA.III IVM-BA.II	KLS-BA.III CBP-B.COM I IVM BCOM III	KLS B COM II IVM-BA.II CBP -BAIII	KLS B COM II IVM-BAII(IDS) CBP B.COM I	KLS-BA.III CBP -B.Com III IVM-BA.II
4.	10.12 to 11.00	KLS-BA.I(A) -BAI(B) CBP -BA.III	KLS-BA.I(A),(B) CBP -BA.III IVM BCOM III	IVM-BAII(IDS)	KLS-BA.III	KLS-BA.III	KLS-BA.III CBP- BCom.I
5.	11.00 to 11.48						IVM-BA.II
6.	11.48 to 12.36			KLS-BAII		KLS-BA.II	

HEAD,
Department of Economics
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal, Dist: Sangli

SHIKSHAN PRASARAK SANSTH'S

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL

Department of Economics

Personal Time-Table

(Academic Year: 2023-24)

Mr. Kiran Laxman Sakat
Assit. Professor

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23		KLS-BCom.II	KLS-BCom.II		KLS-BAII	KLS-BA.I(A)*(B)
2.	08.23 to 09.11	KLS-BAII		KLS-BA.I(A),	KLS-BA.III	KLS-BAIII	
3.	09.11 to 09.59		KLS-BA.III	KLS-BA.III	KLS B COM	KLS B COM II	KLS-BA.III
4.	10.12 to 11.00	KLS-BA.I(A)	KLS-BA.I(A),*(B)		KLS-BA.III	KLS-BA.III	KLS-BA.III
5.	11.00 to 11.48						
6.	11.48 to 12.36			KLS-BAII		KLS-BA.II	

HEAD,
Department of Economics
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal, Dist: Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe-Mahankal,

Department of Economics

Personal Time-Table

(Academic Year: 2023-24)

Mr. Ramdas Ramesh Vasave

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23	B.com I Micro Eco.		B.A III Eco. Of Development		B.A III International Economics	
2.	08.23 to 09.11	B.A III Eco. Of Development	B.com. III Co- Operation	B.A III International Economics	B.com I Micro Eco.	B.com. III Co- Operation	B.com I Micro Eco.
3.	09.11 to 09.59	B.com. III Co- Operation	B.A III Eco. Of Development	B.A. II Co- Operation	B.A III Eco. Of Development	B.com I Micro Eco.	B.A. II Co- Operation
4.	10.12 to 11.00	B.A III International Economics	B.A. II Co- Operation	B.com. III Co- Operation	B.A III International Economics	B.A. II Co- Operation	
5.	11.00 to 11.48						
6.	11.48 to 12.36						

Mr. R.R Vasave

Shikshan Prasarak Sansth's

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL

Department of Economics

Personal Time-Table

(Academic Year 2023-2024)

Mr. C.B. Patil
Associate Professor,
Department of Economics

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28				BA-III		BA-I
2.	08.28 to 0916	BA-II	B.A. II	BA-I		BA-II	BA-II
3.	09.16 to10.04						
4.	10.15 to 11.03	B.A. I	B.A. I				
5.	11.03 to 11.51						
6.	11.51 to 12.39						

Workload

Class	Paper No.	Periods Allotted
B.A.I	P.I & II	04
B.A. II	P. IV&VI	04
B.A. III	P. X & XV	01
	Total	**09**

Teacher Name & Signature

Shikshan Prasarak Sanstha's

PADMABHUSHAN VASANTRAODADA PATIL MAHAVIDYALAYA, KAVATHE MAHANKAL

Department of Economics

Personal Time-Table

(Academic Year: 2023-24)

Mr. I. V. Maner
Assit. Professor

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28		DLS-BAIII,		DLS-BAIII		DLS BA I
2.	08.28 to 09.16			DLS-BAIII			
3.	09.16 to10.04		DLS-BAIII	DLS-B.COM III	DLS-BAIII		
4.	10.15 to 11.03						
5.	11.03 to 11.51						
6.	11.51 to 12.39						

Departmental Time-Table

Department of Psychology

(Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23	B.A. III (PPD)	B.A. I (VDK) B.A. III (DSS)	B.A. II (PPD B.A. III (VDK)	B.A. III (MSS)	B.A. I (DSS) B.A. II (PPD) B.A. III (MSS)	B.A. III Pr.(VDK)
2.	08.23 to 0911	B.A. II (VDK) B.A. III (DSS)	B.A. III (PPD)	B.A. III (DSS)	B.A. III (VDK)	B.A. II (VDK) B.A. I S. M. (MSS) B.A. III (DSS)	B.A. III (DSS)
3.	09.11 to 09.59.	B.A. I (VDK) B.A.III (MSS)	B.A. II (VDK) B.A. III (DSS)	B.A. II T. Logic (VDK) B.A. I S. M. (MSS)	B.A. I S. M. (MSS) B.A. III Pr.(VDK)	B.A. III (VDK)	B.A. II T. Logic (DSS)
4.	10.12 to 11.00	B.A. III Pr.(VDK)	B.A. III Pr.(VDK)	B.A. I (DSS) B.A. III Pr.(VDK)	B.A. II (VDK) B.A. III (MSS)	B.A. II T. Logic (MSS)	B.A. III Pr.(VDK) B.A.I (SM) (MSS)
5.	11.00 to 11.48	B.A. III Pr.(VDK)	B.A. II T. Logic (VDK)			B.A. III Pr.(VDK)	B.A. II (PPD)
6.	11.48 to 12.36		B.A. III Pr.(VDK)				B.A. II (PPD)



Personal Time-Table

Dr. Vinod Kamble
Asst. Professor
Department of Psychology

(Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23		B.A. I (VDK)	B.A. III (VDK)			B.A. III Pr.(VDK)
2.	08.23 to 0911	B.A. II (VDK)			B.A. III (VDK)	B.A. II (VDK)	
3.	09.11 to 09.59.	B.A. I (VDK)	B.A. II (VDK)	B.A. II T. Logic (VDK)	B.A. III Pr.(VDK)	B.A. III (VDK)	
4.	10.12 to 11.00	B.A. III Pr.(VDK)	B.A. III Pr.(VDK)	B.A. III Pr.(VDK)	B.A. II (VDK)		B.A. III Pr.(VDK)
5.	11.00 to 11.48	B.A. III Pr.(VDK)	B.A. II T. Logic (VDK)			B.A. III Pr.(VDK)	
6.	11.48 to 12.36		B.A. III Pr.(VDK)				



Department of Psychology

Personal Time-Table

(Academic Year: 2023-24)

Suryawanshi D S

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23		B.A. III (DSS)			B.A. I (DSS)	
2.	08.23 to 0911	B.A. III (DSS)		B.A. III (DSS)		B.A. III (DSS)	B.A. III (DSS)
3.	09.11 to 09.59.		B.A. III (DSS)				B.A. II T. Logic (DSS)
4.	10.12 to 11.00			B.A. I (DSS)			
5.	11.00 to 11.48						
6.	11.48 to 12.36						



Personal Time Table

Department of Psychology

(Academic Year: 2023-24)

Desai P P

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.35 to 08.23	B.A. III (PPD)		B.A. II (PPD)		B.A. II (PPD)	
2.	08.23 to 0911		B.A. III (PPD)				
3.	09.11 to 09.59.						
4.	10.12 to 11.00						
5.	11.00 to 11.48						B.A. II (PPD)
6.	11.48 to 12.36						B.A. II (PPD)



Department of Political Science

Time-Table (Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28	B.A.II (H.S.N) B.A.III (N.S.W)	B.A. I (N.S.W) B.A. III (N.S.W)	B.A.III (N.S.W)	B.A.III (A.B.C)	B.A.I (S.N.P) B.A.III (H.S.N)	B.A.II (S.N.P) B.A. III (A.B.C)
2.	08.28 to 09.16	B.A.III (S.N.P)	B.A.III (S.N.P)	B.A.III (A.B.C)	B.A.III (H.S.N)	B.A. III (S.N.P)	B.A.II (A.B.C) B.A. III (S.N.P)
3.	09.16 to 10.04	B.A.I (N.S.W) B.A.III (H.S.N)	B.A.III (H.S.N)	B.A.II (PA) (H.S.N)	B.A.II (H.S.N) B.A.III (N.S.W)	B.A. III (N.S.W)	B.A.II (PA) (A.B.C)
4.	10.15 to 11.03	B.A.II (N.S.W) B.A.III (S.N.P)	B.A. II (N.S.W) B.A.III (A.B.C)	B.A.I (S.N.P) B.A.III (A.B.C)	B.A.III (H.S.N)	B.A.II (PA) (A.B.C)	
5.	11.03 to 11.51		B.A.II (PA) (H.S.N)	B.A. II (A.B.C)		B.A.II (S.N.P)	

Mr.Shrikant Phakade
Department of Political Science
Department of Political Science
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Dist-Sangli

Prof. (Dr.) M. K. Patil
Principal,
PRINCIPAL
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist-Sangli

Personal Time-Table

(Academic Year: 2023-24)

Mr.S.N.Phakade
Assistant Professor C.H.B
Department of Political Sceince

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28					B.A.I (S.N.P)	B.A.II (S.N.P)
2.	08.28 to 09.16	B.A.III (S.N.P)	B.A.III (S.N.P)			B.A. III (S.N.P)	B.A. III (S.N.P)
3.	09.16 to 10.04						
4.	10.15 to 11.03	B.A.III (S.N.P)		B.A.I (S.N.P)			
5.	11.03 to 11.51					B.A.II (S.N.P)	

Mr.S.N.Phakade
Department of Political Science

Department of Political Science
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist-Sangli

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya
Kavathe Mahankal
DEPARTMENT OF POLITICAL SCIENCE
Personal Time-Table
(Academic Year: 2023-24)

Mr. Waghmare N. S.
Assistant Professor
Department of Political Sceince

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 To 08.28	B.A. III (NSW)	B.A. III (NSW)	B.A. III (NSW)		B.A. I (NSW)	
	08.28 to 09.16						
3.	09.16 to 10.04				B.A. III (NSW)	B.A. III (NSW)	
4.	10.15 to 11.03	B.A. II (NSW)	B.A. II (NSW)	B.A. I (NSW)			
5.	11.03 to 11.51						

Mr. Waghmare N. S.
Teacher

Prof. (Dr.) M. K. Patil
Principal
PRINCIPAL,
Padmabhushan Vasantraodada Patil Mahavidyalaya, K.Mahankal, Dist-Sangli.

Personal Time-Table

(Academic Year: 2023-24)

Mr.H.S.Narale
Assistant Professor C.H.B
Department of Political Sceince

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28	B.A.II (H.S.N)				B.A.III (H.S.N)	
2.	08.28 to 09.16				B.A.III (H.S.N)		
3.	09.16 to 10.04	B.A.III (H.S.N)	B.A.III (H.S.N)	B.A.II (PA) (H.S.N)	B.A.II (H.S.N)		
4.	10.15 to 11.03				B.A.III (H.S.N)		
5.	11.03 to 11.51		B.A.II (PA) (H.S.N)				

Mr.Shrikant Phakade
Department of Political Science

Prof. (Dr.) M. K. Patil
Principal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

DEPARTMENT OF PHYSICAL EDUCATION

Departmental Time-Table

(Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28	B.A. I (APB)	B.A. III (XYZ)	B.A. III (XYZ)	B.A. II (APB) B.A. III (MM)	B.A. III (MM)	B.A. III (APB)
2.	08.28 to 0916	B.A. III (APB)	B.A. II (APB) B.A. III (MM)	B.A. II (APB) B.A. III (MM)	B.A. III (XYZ)	B.A. II (MM) B.A. III (APB)	B.A. I (APB)
3.	09.16 to10.04	B.A. II (MM) B.A. III (APB)	B.A. I (APB) B.A. III (MM)	B.A. III (APB)	B.A. I (APB)		B.A. III (XYZ)
4.	10.15 to 11.03	B.A. III (XYZ)		B.A. II (MM)	B.A. III (APB)	B.A. III (APB)	B.A. III (APB)
5.	11.03 to 11.51	B.A. II (APB)		B.A. III (APB)	B.A. II (MM) B.A. III (APB)		
6.	11.51 to 12.39						

Mr. A.P. Bhosale
Department of Physical Education

Prof. (Dr.) M. K. Patil
Principal

Personal Time-Table

(Academic Year 2023-24)

Arun Pandurand Bhosale
Asso. Professor,
Department of Physical Education

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28	B.A. I (APB)			B.A. II (APB)		B.A. III (APB)
2.	08.28 to 0916	B.A. III (APB)	B.A. II (APB)	B.A. II (APB)		B.A. III (APB)	B.A. I (APB)
3.	09.16 to10.04	B.A. III (APB)	B.A. I (APB)	B.A. III (APB)	B.A. I (APB)		
4.	10.15 to 11.03				B.A. III (APB)	B.A. III (APB)	B.A. III (APB)
5.	11.03 to 11.51	B.A. II (APB)		B.A. III (APB)	B.A. III (APB)		
6.	11.51 to 12.39						

Teacher Name & Signature

The Head
Department Of Physical Education
P.V.P.College,Pravaranagar,
Dist - Ahmednagar

Personal Time-Table

(Academic Year 2023-24)

Machindra Namdev Mane
Assi. Professor, (CHB)
Department of Physical Education

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28				B.A. III (MM)	B.A. III (MM)	
2.	08.28 to 0916		B.A. III (MM)	B.A. III (MM)		B.A. II (MM)	
3.	09.16 to10.04	B.A. II (MM)	B.A. III (MM)				
4.	10.15 to 11.03			B.A. II (MM)			
5.	11.03 to 11.51				B.A. II (MM)		
6.	11.51 to 12.39						

Teacher Name & Signature

The Head
Department Of Physical Education

Personal Time-Table

(Academic Year 2023-24)

XYZ
Assi. Professor,
Department of Physical Education

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28		B.A. III (XYZ)	B.A. III (XYZ)			
2.	08.28 to 0916				B.A. III (XYZ)		
3.	09.16 to10.04						B.A. III (XYZ)
4.	10.15 to 11.03	B.A. III (XYZ)					
5.	11.03 to 11.51						
6.	11.51 to 12.39						

Teacher Name & Signature

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya

Kavathe Mahankal

DEPARTMENT OF SOCIOLOGY

Departmental Time-Table

(Academic Year: 2023-24)

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28	B.A.III (SAB)	B.A.III (SAB)	B.A.III (SSP) B.A.II (SAB)	B.A.III (SAB)	B.A.II (SAB) B.A.III (SSP)	B.A.III (SSP)
2.	08.28 to 0916	B.A.II (SAB) B.A.III (SSP)	B.A.III (SSP)	B.A.III (SSP)	B.A.III (SSP)	B.A.II (SAB) B.A.III (SSP)	B.A.III (SAB)
3.	09.16 to10.04	B.A.III (SAB)	B.A.II (SAB) B.A.III (SSP)		B.A.III (SSP)	B.A.III (SSP)	
4.	10.15 to 11.03	B.A.III (SSP)	B.A.III (SSP)	B.A.III (SAB)	B.A.II (SAB) B.A.III (SSP)		
5.	11.03 to 11.51	B.A.I (SAB)	B.A.I (SAB)	B.A.I (SAB)			B.A.II (SAB)
6.	11.51 to 12.39				B.A.I (SAB)		B.A.II (SAB)

Head of Department

HEAD
Department of Sociology
P. V. P. Mahavidalaya,
Kavathe Mahankal.

Principal

PRINCIPAL
Padmabhushan Vasantraodada Patil
Mahavidyalaya Kavathe Mahankal

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya

Kavathe Mahankal

DEPARTMENT OF SOCIOLOGY

Personal Time-Table

(Academic Year: 2023-24)

Mr. Babar S. A
Assistant Professor
Class: B. A. Part- I, II & III

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28	B.A.III (SAB)	B.A.III (SAB)	B.A.II (SAB)	B.A.III (SAB)	B.A.II (SAB)	B.A.III (SSP)
2.	08.28 to 0916	B.A.II (SAB)				B.A.II (SAB)	B.A.III (SAB)
3.	09.16 to10.04	B.A.III (SAB)	B.A.II (SAB)				
4.	10.15 to 11.03			B.A.III (SAB)	B.A.II (SAB)	B.A.III (SSP)	
5.	11.03 to 11.51	B.A.I (SAB)	B.A.I (SAB)	B.A.I (SAB)			B.A.II (SAB)
6.	11.51 to 12.39				B.A.I (SAB)		B.A.II (SAB)

Mr. Surendranath A. Babar
HoD
Departmental of Sociology

HEAD
Department of Sociology
P. V. P. Mahavidalaya,
Kavathe Mahankal.

Mr. Prof. (Dr.) M. K. Patil
Principal

Padmabhushan Vasantraodada Patil Mahavidyalaya,Kavathe Mahankal,Dist.Sa...

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya

Kavathe Mahankal

DEPARTMENT OF SOCIOLOGY

Personal Time-Table

(Academic Year: 2023-24)

Miss. Pawar S. S.
Assistant Professor
Departmental of Sociology

Period No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	07.40 to 08.28			B.A.III (SSP)		B.A.III (SSP)	B.A.III (SSP)
2.	08.28 to 0916	B.A.III (SSP)	B.A.III (SSP)	B.A.III (SSP)	B.A.III (SSP)	B.A.III (SSP)	
3.	09.16 to10.04		B.A.III (SSP)		B.A.III (SSP)	B.A.III (SSP)	
4.	10.15 to 11.03	B.A.III (SSP)	B.A.III (SSP)		B.A.III (SSP)		
5.	11.03 to 11.51						
6.	11.51 to 12.39						

Mr. Surendranath A. Babar
HoD
Departmental of Sociology

HEAD
Department of Sociology
P. V. P. Mahavidalaya,
Kavathe Mahankal.

Mr. Prof. (Dr.) M. K. Patil
Principal

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal Dist. Sangli

Time Table B. Com. 2023-24

Day	No.	Time	B. Com- I	B. Com- II	B. Com- III
Monday	1	7:40 To 8:28	Micro Eco (RRV) 57	F. E. (SMS)55	Acct.(BHM)56 / Cost(PRM)54/ I.M.(RNV)
	2	8:28 To 9:16	Fin.Acct (BHM) 57	Bus. Stat.(VVK)55	Bus. Envi. (KLS) 56
	3	9:16 To 10:04	MFS.57(PRM)	ENG. (NPS)55	Co. Op.(RRV)56
	4	10:15 To 11:03	Mark. (PRM) Hist.(SHE).(71)	F. E. (SMS)55	MMP. (BHM)56
	5	11:03 To 11:51	P. E. (Comp.)	Envi. Studies(ASS)55	--
Tuesday	1	7:40 To 8:28	Ins.(RNV) Geog.(DMG)1	Macro. Eco. (DLS)55	MMP. (BHM)56
	2	8:28 To 9:16	Fin Acct.(BHM)57	Corp. Acct.(PRM)55	Co. Op.(RRV)56
	3	9:16 To 10:04	Mrket. (PRM) 57 Hist.(SHE).(71)	Money & Fin.(BHM) 55	BRF (SMS)56
	4	10:15 To 11:03	ENG (SPS) 57	ENG. (NPS)55	Acct.(BHM)56 / Cost(PRM)54/ I.M.(RNV
	5	11:03 To 11:51	P. E. (Comp.)	Envi.Studies(ASS)55	--
Wednesday	1	7:40 To 8:28	Mark.(PRM)57/Hist.(SHE)71	Macro. Eco. (DLS)55	BRF (BHM)56
	2	8:28 To 9:16	ENG (SPS) 57	F. E. (SMS)55	Acct.(BHM)56 / Cost(PRM)54/ I.M.(RNV)
	3	9:16 To 10:04	Ins.(RNV) 57/Geog.(DMG)	Corp. Acct.(PRM)55	Bus. Envi. (KLS) 56
	4	10:15 To 11:03	MFA (PRM) 57	Money Fin.(BHM)55	Co. Op. (RRV) 56
	5	11:03 To 11:51	P. E. (Comp.)	Envi.Studies(ASS)55	
Thursday	1	7:40 To 8:28	MFS (SMS) 57	ENG. (NPS)55	Acct.(BHM)56 / Cost(PRM)54/ I.M.(RNV)
	2	8:28 To 9:16	Micro Eco (RRV) 57	Bus. Stat.(VVK)55	Acct.(PRM)56 / Cost(BHM)54/ I.M.(RNV)
	3	9:16 To 10:04	Fin. Acct. (BHM)57	Macro. Eco. (DLS)55	Bus. Envi. (KLS) 56
	4	10:15 To 11:03	Mark.(PRM)57/Hist.(SHE)71	Money & Fin.(BHM)	BRF (SMS)56
	5	11:03 To 11:51	--	Envi.Studies(ASS)55	--
Friday	1	7:40 To 8:28	ENG (SPS).	Corp. Acct.(PRM)55	BRF (BHM)56
	2	8:28 To 9:16	Fin. Acct. (BHM)57	Macro. Eco. (DLS)55	Co. Op.(RRV)56
	3	9:16 To 10:04	Micro. Eco. (RRV)57	F. E. (SMS)55	Acct.(BHM)56 / Cost(PRM)54/ I.M.(RNV)
	4	10:15 To 11:03	Ins.(RNV) 57/Geog.(DMG) 1	Bus. Stat.(VVK)55	MMP (PRM)56
	5	11:03 To 11:51	P. E. (Comp.)	--	--
Saturday	1	7:40 To 8:28	MFS (SMS) 57	Money & Fin(BHM)	MMP (PRM)56
	2	8:28 To 9:16	Micro. Eco. (RRV)57	ENG. (NPS)55	Acct.(BHM)56 / Cost(PRM)54/ I.M.(SMS)
	3	9:16 To 10:04	ENG (SPS).	Bus. Stat.(VVK)55	Acct.(PRM)56 / Cost(BHM)54/ I.M.(SMS)
	4	10:15 To 11:03	Ins.(RNV) 57/Geog.(DMG) 1	Corp. Acct.(PRM)55	Bus. Envi. (KLS) 56
			--	--	

HEAD
Department of Commerce
Padmabhushan Vasantraodada Patil
Mahavidyalaya, Kavathe Mahankal

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya,
Kavathe Mahankal, Dist-Sangli

Acadamic Year 2023-2024

Department Of Chemistry



Time Table Sem I

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I	SVP			GDK		
08:00-08:48	B.Sc.II	RSS	VACANT			ASP	
11:00-11:48	B.SC.III	GDK	TPS	GDK	SVP	VACANT	ASP
11:36-12:24	B.Sc.I						ASP
08:48-09:36	B.Sc.II						VACANT
11:48-12:36	B.SC.III	SVP	VACANT	AAK	AAK	SVP	GDK
12:24-1:12	B.Sc.I			RSS			
09:36-10:24	B.Sc.II				ASP		
1:12-2:00	B.Sc.I		ASP				
10:24-11:12	B.Sc.II			ASP			
Practical							
2:15-5:15	B.Sc.I	GDK	APS	SVP	ASP	VACANT	AAM
11:30-2:30	B.Sc.II	AAK	AAK	RSS	RSS	TPS	TPS
12:50-4:50	B.SC.III			A1.(GDK)	A1.(GDK)	A1(SVP)	A1.(SVP)
				A2.(AAK)	A2.(AAK)	A2.(ASP)	A2.(ASP)
				A3.(AAM)	A3.(APS)	A3.(RSS)	A3.(RSS)

Time Table Sem II

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I	RSS			ASP		
08:00-08:48	B.Sc.II	ASP	SVP			ASP	
11:00-11:48	B.SC.III	GDK	TPS	GDK	SVP	VACANT	ASP
11:36-12:24	B.Sc.I						VACANT
08:48-09:36	B.Sc.II						VACANT
11:48-12:36	B.SC.III	SVP	VACANT	AAK	AAK	SVP	GDK
12:24-1:12	B.Sc.I			ASP			
09:36-10:24	B.Sc.II				ASP		
1:12-2:00	B.Sc.I		RSS				
10:24-11:12	B.Sc.II			GDK			
Practical							
2:15-5:15	B.Sc.I	GDK	APS	SVP	ASP	VACANT	AAM
11:30-2:30	B.Sc.II	AAK	AAK	RSS	RSS	TPS	TPS
12:50-4:50	B.SC.III			A1.(GDK)	A1.(GDK)	A1(SVP)	A1.(SVP)
				A2.(AAK)	A2.(AAK)	A2.(ASP)	A2.(ASP)
				A3.(AAM)	A3.(APS)	A3.(RSS)	A3.(RSS)

Head
Department Of Chemistry
P. V. P. Mahavidyalaya,
Kavathe Mahankal,Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya,

Kavathe Mahankal, Dist-Sangli

Acadamic Year 2023-2024

Department Of Chemistry

Personal Time Table Sem I

Mr. S. V. Patil (Asso. Prof & Head)

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I	SVP					
08:00-08:48	B.Sc.II						
11:00-11:48	B.SC.III				SVP		
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III	SVP				SVP	
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I			SVP			
11:30-2:30	B.Sc.II						
12:50-4:50	B.SC.III					A1(SVP)	A1.(SVP)

Time Table Sem II

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I						
08:00-08:48	B.Sc.II		SVP				
11:00-11:48	B.SC.III				SVP		
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III	SVP				SVP	
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I			SVP			
11:30-2:30	B.Sc.II						
12:50-4:50	B.SC.III					A1(SVP)	A1.(SVP)

Head
Department Of Chemistry
P. V. P. Mahavidyalaya,
Kavathe Mahankal,Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal, Dist-Sangli

Acadamic Year 2023-2024

Department Of Chemistry

Personal Time Table Sem I

Dr. G.D. Kore (Asso. prof)

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I				GDK		
08:00-08:48	B.Sc.II						
11:00-11:48	B.SC.III	GDK		GDK			
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III						GDK
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I	GDK					
11:30-2:30	B.Sc.II						
12:50-4:50	B.SC.III			A1.(GDK)	A1.(GDK)		

Time Table Sem II

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I						
08:00-08:48	B.Sc.II						
11:00-11:48	B.SC.III	GDK		GDK			
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III						GDK
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II			GDK			
Practical							
2:15-5:15	B.Sc.I	GDK					
11:30-2:30	B.Sc.II						
12:50-4:50	B.SC.III			A1.(GDK)	A1.(GDK)		

Head
Department Of Chemistry
P. V. P. Mahavidyalaya,
Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal, Dist-Sangli

Acadamic Year 2022-2023

Department Of Chemistry

Personal Time Table Sem I

Mr.A.A. Kamble(Assi.Prof.)

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I						
08:00-08:48	B.Sc.II						
11:00-11:48	B.SC.III						
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III			AAK	AAK		
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I						
11:30-2:30	B.Sc.II	AAK	AAK				
12:50-4:50	B.SC.III						
				A2.(AAK)	A2.(AAK)		

Time Table Sem II

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I						
08:00-08:48	B.Sc.II						
11:00-11:48	B.SC.III						
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III			AAK	AAK		
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I						
11:30-2:30	B.Sc.II	AAK	AAK				
12:50-4:50	B.SC.III						
				A2.(AAK)	A2.(AAK)		

Head
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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal, Dist-Sangli

Acadamic Year 2023-2024

Department Of Chemistry

Personal Time Table Sem I

Mr. A. S. Pawar (Assl. prof)

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I						
08:00-08:48	B.Sc.II					ASP	
11:00-11:48	B.SC.III						ASP
11:36-12:24	B.Sc.I						ASP
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III						
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II				ASP		
1:12-2:00	B.Sc.I		ASP				
10:24-11:12	B.Sc.II			ASP			
Practical							
2:15-5:15	B.Sc.I				ASP		
11:30-2:30	B.Sc.II						
12:50-4:50	B.SC.III						
						A2.(ASP)	A2.(ASP)

Time Table Sem II

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I				ASP		
08:00-08:48	B.Sc.II	ASP				ASP	
11:00-11:48	B.SC.III						ASP
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III						
12:24-1:12	B.Sc.I			ASP			
09:36-10:24	B.Sc.II				ASP		
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I				ASP		
11:30-2:30	B.Sc.II						
12:50-4:50	B.SC.III						
						A2.(ASP)	A2.(ASP)

Head
Department Of Chemistry
P. V. P. Mahavidyalaya,
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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal, Dist-Sangli

Acadamic Year 2023-2024

Department Of Chemistry

Personal Time Table Sem I

Dr. R. S. Sutar (Assi. prof)

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I						
08:00-08:48	B.Sc.II	RSS					
11:00-11:48	B.SC.III						
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III						
12:24-1:12	B.Sc.I			RSS			
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I						
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I						
11:30-2:30	B.Sc.II			RSS	RSS		
12:50-4:50	B.SC.III						
						A3.(RSS)	A3.(RSS)

Time Table Sem II

Time	Class	Mon	Tue	Wed	Thu	Fri	Sat
10:48-11:36	B.Sc.I	RSS					
08:00-08:48	B.Sc.II						
11:00-11:48	B.SC.III						
11:36-12:24	B.Sc.I						
08:48-09:36	B.Sc.II						
11:48-12:36	B.SC.III						
12:24-1:12	B.Sc.I						
09:36-10:24	B.Sc.II						
1:12-2:00	B.Sc.I		RSS				
10:24-11:12	B.Sc.II						
Practical							
2:15-5:15	B.Sc.I						
11:30-2:30	B.Sc.II			RSS	RSS		
12:50-4:50	B.SC.III						
						A3.(RSS)	A3.(RSS)

Head
Department Of Chemistry
P. V. P. Mahavidyalaya,
Kavathe Mahankal, Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF PHYSICS

Time – Table

Academic Year 2023 - 24

Day	Class	Practical	I	II	III	IV	V
	B Sc I	2.30-5.30 pm	10.30-11.18	11.18-12.06	12.06-12.54	12.54-1.42	1.42-2.30
	B Sc II	11.30-2.42 pm	7.30-8.18	8.18-9.06	9.06-9.54	9.54-10.42	10.42-11.30
	B Sc III	12.50-4.50 pm	11.00-11.48	11.48-12.36	12.36-1.24	1.24-2.12	
Monday	B Sc I	PUM			PUM/SBP		
	B Sc II					SSS/PUM	
	B Sc III	SBP	SBP	SBP			
Tuesday	B Sc I				PUM/SBP		
	B Sc II						SBP/PUM
	B Sc III		RPH	SAGAR			
Wednesday	B Sc I	SAGAR		Sagar/SSS			
	B Sc II					SSS/RAJ	
	B Sc III	PUM	PUM	PUM			
Thrusday	B Sc I	PUM			RAJ/SBP		
	B Sc II						SBP/RAJ
	B Sc III	SSS	SSS	SSS			
Friday	B Sc I	RAJ		RAJ/SSS			
	B Sc II	SBP+SSS				SSS/SAG	
	B Sc III	SBP	Sagar	PUM			
Saturday	B Sc I						
	B Sc II	SBP+SSS				SBP/SAG	
	B Sc III		SBP	PUM			

(P.U. Mahamuni)
Head
Head of Department
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF PHYSICS

Personal Time – Table

Mrs. P. U. Mahamuni

Academic Year 2023 - 24

Day	Class	Practical	I	II	III	IV	V
	B Sc I	2.30-5.30 pm	10.30-11.18	11.18-12.06	12.06-12.54	12.54-1.42	1.42-2.30
	B Sc II	11.30-2.42 pm	7.30-8.18	8.18-9.06	9.06-9.54	9.54-10.42	10.42-11.30
	B Sc III	12.50-4.50 pm	11.00-11.48	11.48-12.36	12.36-1.24	1.24-2.12	
Monday	B Sc I	PUM			PUM		
	B Sc II					PUM	
	B Sc III						
Tuesday	B Sc I				PUM		
	B Sc II						PUM
	B Sc III						
Wednesday	B Sc I						
	B Sc II						
	B Sc III	PUM	PUM	PUM			
Thursday	B Sc I	PUM(1)					
	B Sc II						
	B Sc III						
Friday	B Sc I						
	B Sc II						
	B Sc III			PUM			
Saturday	B Sc I						
	B Sc II						
	B Sc III			PUM			

Mahamuni

(P.U. Mahamuni)
Head
Department of Physics
P.V.P Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalay, Kavathe Mahankal.

Name :- Sanjay B.Patil .

Personal Time Table

Year 2023-2024.

	Class	Monday	Tuesday	Wednesday	Thurs	Friday	Saturday
	B.Sc.I	Lect.- S2 12.06-12.54	Lect. 12.06 – 12.54	--------	Lect. 12.06 -12.54	------	-------
	B.Sc.II	---------	Lect. 10.42 -11.30	--------	Lect. 10.42-11.30	Practical 11.30-2.30	Lect. 9.54-10.42
	B.Sc.III	Lect. 11.0-11.48 11.48-12.36 Practical 12.45-4.45	----------	----------	----------	-------	Lecture 9.54-10.42

Head
Department of Physics
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Shikshan Prasarak Sanstha's
Padmabhushan Vasantraodada patil Mahavidyalaya, Kavathemahankal

Department of Physics
Personal Time Table – 2023-24
Dr. S. S. Shendage

Mon	Tue	Wed	Thu	Fri	Sat
		B.Sc. I (L)/S2 11.18-12.06	B.Sc. III (L)/S1/S2 11.0-11.48	B.Sc. I (L)/S2 11.18-12.06	B.Sc. II (P) 11.30 – 2.30
B.Sc. II (L)/S1 9.54 – 10.42	B.Sc. III (L)/S1/S2 11.48-12.36	B.Sc. II (L)/S1 9.54 – 10.42	B.Sc. III (L)/S1/S2 11.48-12.36	B.Sc. II (L)/S1 9.54 – 10.42	
			B.Sc. III (P) 12.45-4.45	B.Sc. III (P) 12.45-4.45	

(Dr. S. S. Shendage)

Head
Department of Physics
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF PHYSICS

Personal Time – Table

Academic Year 2023 - 24

Mr. Sagar S. Shinde

Day	Class	Practical	I	II	III	IV	V
	B Scl	2.30-5.30 pm	10.30-11.18	11.18-12.06	12.06-12.54	12.54-1.42	1.42-2.30
	B ScII	11.30-2.42 pm	7.30-8.18	8.18-9.06	9.06-9.54	9.54-10.42	10.42-11.30
	B ScIII	12.50-4.50 pm	11.00-11.48	11.48-12.36	12.36-1.24	1.24-2.12	
Monday	B Scl						
	B ScII						
	B ScIII						
Tuesday	B Scl						
	B ScII						
	B ScIII			SAGAR			
Wednesday	B Scl	SAGAR		SAGAR			
	B ScII						
	B ScIII						
Thrusday	B Scl						
	B ScII						
	B ScIII						
Friday	B Scl						
	B ScII					SAGAR	
	B ScIII		SAGAR				
Saturday	B Scl						
	B ScII					SAGAR	
	B ScIII						

Shinde

(Mr. sagar S. Shinde)

(P.U. Mahamuni)

Head of Department

Head
Department of Physics
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF PHYSICS

Personal Time – Table

Academic Year 2023 - 24

Mr. Raj P. Hasabe

Day	Class	Practical	I	II	III	IV	V
	B Scl	2.30-5.30 pm	10.30-11.18	11.18-12.06	12.06-12.54	12.54-1.42	1.42-2.30
	B ScII	11.30-2.42 pm	7.30-8.18	8.18-9.06	9.06-9.54	9.54-10.42	10.42-11.30
	B ScIII	12.50-4.50 pm	11.00-11.48	11.48-12.36	12.36-1.24	1.24-2.12	
Monday	B Scl						
	B ScII						
	B ScIII						
Tuesday	B Scl						
	B ScII						
	B ScIII		RAJ				
Wednesday	B Scl						
	B ScII					RAJ	
	B ScIII						
Thrusday	B Scl				RAJ		
	B ScII						RAJ
	B ScIII						
Friday	B Scl	RAJ		RAJ			
	B ScII						
	B ScIII						
Saturday	B Scl						
	B ScII						
	B ScIII						

(P.U. Mahamuni)
Head of Department

Head
Department of Physics
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

(Raj P. Hasabe)

ShikshanPrasarakSanstha's

P.V.P. MahavidyalayaKavatheMahankal

Department of Botany

Shri. T.G. Patil

Individual Time Table 2023 - 24

Day	Class	Practical	I	II	III	IV	V	Practical
	Time	10.30-1.30	11.-11.45/1.45-2.30	11.45-12.30/2.30-3.15	12.30-1.15/3.15-4.00	1.15-2.00/	2.00-2.45	2.15-5.15
Monday	B.Sc.I			TGP				
	B.Sc.II							
	B.Sc.III							TGP
Tuesday	B.Sc.I							
	B.Sc.II				TGP			
	B.Sc.III							
Wednesday	B.Sc.I							
	B.Sc.II							
	B.Sc.III							TGP
Thursday	B.Sc.I							
	B.Sc.II	TGP						
	B.Sc.III							
Friday	B.Sc.I							
	B.Sc.II							
	B.Sc.III			TGP				
Saturday	B.Sc.I							
	B.Sc.II							
	B.Sc.III							

Head
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Department of Botany

Dr. B. T. Jadhav

Individual Time Table 2023 - 24

Day	Class	Practical	I	II	III	IV	V	Practical
	Time	10.30-1.30	11.-11.45/1.45-2.30	11.45-12.30/2.30-3.15	12.30-1.15/3.15-4.00	1.15-2.00	2.00-2.45	2.15-5.15
Monday	B.Sc.I							
	B.Sc.II		BTJ					
	B.Sc.III							
Tuesday	B.Sc.I							
	B.Sc.II							
	B.Sc.III							BTJ
Wednesday	B.Sc.I							
	B.Sc.II	BTJ						
	B.Sc.III			BTJ				
Thursday	B.Sc.I							
	B.Sc.II							
	B.Sc.III		BTJ					BTJ
Friday	B.Sc.I							
	B.Sc.II							
	B.Sc.III							
Saturday	B.Sc.I					BTJ		
	B.Sc.II							
	B.Sc.III							

P.V.P. MAHAVIDYALAYA KAVATHE MAHANKAL Dist. Sangli 416 405.

Head
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli



Department of Botany

Departmental Time Table 2023 – 24

Day	Class	Practical	I	II	III	IV	V	Practical
	Time	10.30-1.30	7.30/8.15	8.15/9.00	9.00/9.45	9.45/10.30	10.30/11.15	2.15-5.15
Monday	B.Sc.I	SBP					BTJ	
	B.Sc.II	TGP					TGP	
	B.Sc.III					SMS		SBP
Tuesday	B.Sc.I	SMS				TGP		
	B.Sc.II	BTJ					TGP	
	B.Sc.III					SMS		SMS
Wednesday	B.Sc.I	BTJ						
	B.Sc.II							
	B.Sc.III					TGP		BTJ
Thursday	B.Sc.I					SBP		
	B.Sc.II						BTJ	
	B.Sc.III					BTJ		
Friday	B.Sc.I				SMS			
	B.Sc.II	SMS					BTJ	

Head
Department of Botany
P.V.P. Mahavidyalaya
Kavathe Mahankal Dist-Sangli

Year (2023-24)

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics (Grantable)
Time Table 2023-24

Day	B.Com. II (Statistics)	B.Sc. I (Statistics)		B.Sc. II (Statistics)	
		Theory	Practical	Theory	Practical
Monday	(08:28-09:16) SSP	12:45-01:30 VVK	***	09:00-09:45 VVK	***
Tuesday	***	11:15-12:00 VVK	02:30-05:30 MKP/VVK	09:45-10:00 SSP	***
Wednesday	***	12:00-12:45 SSP	02:30-05:30 VVK/MKP	09:00-09:45 SSP	11:30-02:30 MKP/VVK
Thursday	(08:28-09:16) SSP	***	***	08:15-09:00 VVK	11:30-02:30 VVK/MKP
Friday	(10:15-11:02) SSP	12:00-12:45 SSP	***	09:00-09:45 VVK	***
Saturday	(09:16-10:04) SSP	12:45-01:30 VVK	***	10:30-11:15 SSP	***

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics (Non-Grantable)
Time Table 2023-24

Day	B.Sc. I (Statistics)		B.Sc. III (Statistics)	
	Theory	Practical	Theory	Practical
Monday	***	***	11:00-11:45 GDS 11:45-12:30 PMP	
Tuesday	***	02:30-05:30 SSP	11:00-11:45 GDS 11:48-12:30 PMP	
Wednesday	***	02:30-05:30 SSP	11:00-11:45 PMP 11:48-12:30 GDS	12:51-04:03 GDS/PMP
Thursday	***	***	11:00-11:45 PMP 11:48-12:30 GDS	12:51-04:03 SSP
Friday	***	***	11:00-11:45 GDS 11:48-12:30 PMP	12:51-04:03 PMP/GDS
Saturday	***	***	11:00-11:45 PMP 11:48-12:30 GDS	01:00-04:00 PMP/GDS

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics
Time Table 2023-24

1.Teacher Name : Dr. M. K. Patil

Day	B.Sc. I (Statistics)		B.Sc. II (Statistics)	
	Theory	Practical	Theory	Practical
Monday	***	***	***	***
Tuesday	***	02:30-05:30 MKP	***	***
Wednesday	***	02:30-05:30 MKP	***	11:30-02:30 VVK
Thursday	***	***	***	11:30-02:30 MKP
Friday	***	***	***	***
Saturday	***	***	***	***

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics
Time Table 2023-24

2.Teacher Name :Prof. V. V. Koshti

Day	B.Sc. I (Statistics)		B.Sc. II (Statistics)	
	Theory	Practical	Theory	Practical
Monday	12:45-01:30 VVK	***	09:00-09:45 VVK	***
Tuesday	11:15-12:00 VVK	02:30-05:30 VVK	***	***
Wednesday	***	02:30-05:30 VVK	***	11:30-02:30 VVK
Thursday	***	***	08:15-09:00 VVK	11:30-02:30 VVK
Friday	***	***	09:00-09:45 VVK	***
Saturday	12:45-01:30 VVK	***	***	***

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics
Time Table 2023-24

3.Teacher Name : S. S. Patil

Day	B.Com. II (Statistics)	B.Sc. I (Statistics)	B.Sc. II (Statistics)	B.Sc. III (Statistics)
		Theory	Theory	Practical
Monday	(08:28-09:16) SSP	***	***	
Tuesday	***	***	09:45-10:00 SSP	
Wednesday	***	12:00-12:45 SSP	09:00-09:45 SSP	
Thursday	(08:28-09:16) SSP	***	***	12:51-04:03 SSP
Friday	(10:15-11:02) SSP	12:00-12:45 SSP	***	
Saturday	(09:16-10:04) SSP	***	10:30-11:15 SSP	

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics
Time Table 2023-24

4.Teacher Name : G. D. Satpute

Day	B.Sc. III (Statistics)	
	Theory	Practical
Monday	11:00-11:45 GDS	***
Tuesday	11:00-11:45 GDS	***
Wednesday	11:48-12:30 GDS	12:51-04:03 GDS
Thursday	11:48-12:30 GDS	***
Friday	11:00-11:45 GDS	12:51-04:03 GDS
Saturday	11:48-12:30 GDS	01:00-04:00 GDS

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P. V. P. Mahavidyalaya, Kavathe Mahankal
Department Of Statistics
Time Table 2023-24

5.Teacher Name : P. M. Patil/ S.M. Zarekar

Day	B.Sc. III (Statistics)	
	Theory	Practical
Monday	11:45-12:30 PMP	***
Tuesday	11:48-12:30 PMP	***
Wednesday	11:00-11:45 PMP	12:51-04:03 PMP/SMZ
Thursday	11:00-11:45 PMP	***
Friday	11:48-12:30 PMP	12:51-04:03 PMP/SMZ
Saturday	11:00-11:45 PMP	01:00-04:00 PMP/SMZ

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

To,
The Principal
P. V. P. Mahavidyalaya Kavathe Mahankal, Dist. Sangli

Sub: Workload distribution of Statistics Department for 2023-24

Respected Sir,
With reference to above subject the Workload distribution of Statistics Department for 2023-24 is as given.
Please accept it.

Name of the teacher	B. Sc. I (Stat.)		B. Sc.III (Stat.)		Total
	Th.	Pr.	Th.	Pr.	
*S. S. Patil	0	4	0	10	**14**
G. D. Satpute	0	0	6	15	**21**
*P. M. Patil	0	0	6	15	**21**
Total	**0**	**4**	**12**	**40**	**56**

Thanking You,

Head,
Department of Statistics
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

To,
The Principal
P. V. P. Mahavidyalaya Kavathe Mahankal, Dist. Sangli

Sub: Grantable Workload distribution of Statistics Department for 2023-24

Respected Sir,
With reference to above subject the Workload distribution of Statistics Department for 2023-24is as given.
Please accept it.

Name of the teacher	B. Com. II (Statistics)	B. Sc. I (Stat.)		B. Sc. II (Stat.)		Total
		Th.	Pr.	Th.	Pr.	
Prof. (Dr.) M. K Patil	0	0	4	0	2	**06**
V. V. Koshti	0	3	8	3	6	**20**
*S. S. Patil	4	2	0	3	0	**09**
Total	**4**	**5**	**12**	**6**	**8**	**35**

Thanking You,

Head,
Department of Statistics

Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P.V.P. Mahavidyalaya, Kavathe Mahankal

Department of Zoology

TIME-TABLE (Academic Year 2023-24)

Grantable

Class/ Day	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
BSc I							
Theory	10.48-11.36		SBM				
	11.36-12.24			SPJ			
	12.24-1.12	SBM				RAS	RAS
	1.12-2.00						
Practical	2.15-5.15	A4+B4	A3+B3		A5+B5		
		RAS	SPJ		SBM		
BSc II							
Theory	9.06-9.54						
	9.54-10.42	SPJ		SBM		SPJ	SBM
	10.42-11.30		RAS		RAS		
Practical	11.30-2.30			A3+A6	A3+A6	A7	A7
				RAS	RAS	SBM	SBM
Non-Grantable							
Practical							
BSc I							
BSC II							
BSc III							
Theory	11.00-11.48	SBM	RAS	SPJ	SPJ	RAS	SBM
	11.48-12.36	SBM	SPJ	RAS	SPJ	SPJ	RAS
Practical	12.50 - 4.45			Z1	Z2	Z3	Z4

SBM: Prof.(Dr.) Suvarna. B. More
RAS: Dr. Reshma. A. Sanadi
SPJ: Mr. Shivam. P. Jaganade

Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

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P.V.P. Mahavidyalaya, Kathe Mahankal

Department of Zoology

INDIVIDUAL TIME-TABLE (Academic Year 2023-24)

Prof.(Dr.) Suvarna. B. More

Class/ Day	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
BSc I							
Theory	10.48-11.36		SBM				
	11.36-12.24						
	12.24-1.12	SBM					
	1.12-2.00						
Practical	2.15-5.15				AS+BS		
					SBM		
BSc II							
Theory	9.06-9.54						
	9.54-10.42			SBM			SBM
	10.42-11.30						
Practical	11.30-2.30					A7	A7
						SBM	SBM
Non-Grantable							
Practical							
BSc I							
BSC II							
BSc III							
Theory	11.00-11.48	SBM					SBM
	11.48-12.36	SBM					
Practical	12.50 - 4.45			Z1	Z2	Z3	Z4

HOD
Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kathe Mahankal, Dist.-Sangli

P.V.P. MAHAVIDYALAYA KATHE-MAHANKAL DIST. SANGLI 416 405

Principal
PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya, K.Mahankal, Dist-Sangli

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Prof.(D-

P.V.P. Mahavidyalaya, Kavathe Mahankal

Department of Zoology

INDIVIDUAL TIME-TABLE (Academic Year 2023-24)

Dr. Reshma. A. Sanadi

Class/ Day	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
BSc I							
Theory	10.48-11.36						
	11.36-12.24					RAS	RAS
	12.24-1.12						
	1.12-2.00						
Practical	2.15-5.15	A4+B4					
		RAS					
BSc II							
Theory	9.06-9.54						
	9.54-10.42			SBM		SPJ	SBM
	10.42-11.30		RAS		RAS		
Practical	11.30-2.30			A3+A6	A3+A6	A7	A7
				RAS	RAS	SBM	SBM
Non-Grantable							
Practical							
BSc I							
BSC II							
BSc III							
Theory	11.00-11.48		RAS			RAS	
	11.48-12.36			RAS			RAS
Practical	12.50 - 4.45			Z1	Z2	Z3	Z4

HOD
Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P.V.P. MAHAVIDYALAYA DIST. SANGLI 416 405 KAVATHE MAHANKAL

Principal
PRINCIPAL,
Padmabhooshan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

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P.V.P. Mahavidyalaya, Kavathe Mahankal

Department of Zoology

INDIVIDUAL TIME-TABLE (Academic Year 2023-24)

Mr. Shivam. P. Jaganade

Class/ Day	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
BSc I							
Theory	10.48-11.36						
	11.36-12.24			SPJ			
	12.24-1.12						
	1.12-2.00						
Practical	2.15-5.15		A3+B3				
			SPJ				
BSc II							
Theory	9.06-9.54						
	9.54-10.42					SPJ	
	10.42-11.30						
Practical	11.30-2.30						
Non-Grantable							
Practical							
BSc I							
BSC II							
BSc III							
Theory	11.00-11.48			SPJ	SPJ		
	11.48-12.36		SPJ		SPJ	SPJ	
Practcal	12.50 - 4.45			Z1	Z2	Z3	Z4

HOD
Head
Department of Zoology
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

P.V.P. MAHAVIDYALAYA DIST. SANGLI 416 405 KAVATHE MAHANKAL

Principal
PRINCIPAL,
Padmabhushan Vasantraodada Patil
Mahavidyalaya,K.Mahankal,Dist-Sangli

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Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

Department Of Mathematics

Time Table (2023 – 2024)

	Time	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday	Total
Grantable								
B.Sc –I (Theory)	11:00-11:48						RAD	
	11:48-12:36							
	12:36-1:24		RAD		RAD	RAD		
	1:24-2:12	RAD						
Practical	2:30-5:42					RAD		
B.SC-II (Theory)	8:00-8:48	RAD					RAD	
	8:48-9:36		RAD			RAD		
	9:36-10:24							
	10:24-11:12			RAD	RAD			
Practical	11:30-2:42			RAD	RAD			
Non- Grantable								
B.Sc –III (theory)	11:00-11:48	AAB	AAB	AAB	AAB	AAB	AAB	
	11:48-12:36	AAB	AAB	AAB	AAB	AAB	AAB	
	12:36-1:24							
	1:24-2:12							
Practical	12:54-4:06			RAD	AAB	AAB	AAB	

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Mahankal, Dist.-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

Department Of Mathematics

Time Table (2023 – 2024)

Name Of Teacher : R. A. Dudhal

	Time	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday	Total
Grantable								
B.Sc –I (Theory)	11:00-11:48						RAD	
	11:48-12:36							
	12:36-1:24		RAD		RAD	RAD		
	1:24-2:12	RAD						
Practical	2:30-5:42					RAD		
B.SC-II (Theory)	8:00-8:48	RAD					RAD	
	8:48-9:36		RAD			RAD		
	9:36-10:24							
	10:24-11:12			RAD	RAD			
Practical	11:30-2:42			RAD	RAD			
Non- Grantable								
B.Sc –III (theory)	11:00-11:48							
	11:48-12:36							
	12:36-1:24							
	1:24-2:12							
Practical	12:54- 4:06			RAD				

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli

Shikshan Prasarak Sanstha's

Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal

Department Of Mathematics

Time Table (2023 – 2024)

Name Of Teacher : A. A. Bandgar

	Time	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday	Total
Grantable								
B.Sc –I (Theory)	11:00-11:48							
	11:48-12:36							
	12:36-1:24							
	1:24-2:12							
Practical	2:30-5:42							
B.SC-II (Theory)	8:00-8:48							
	8:48-9:36							
	9:36-10:24							
	10:24-11:12							
Practical	11:30-2:42							
Non- Grantable								
B.Sc –III (theory)	11:00-11:48	AAB	AAB	AAB	AAB	AAB	AAB	
	11:48-12:36	AAB	AAB	AAB	AAB	AAB	AAB	
	12:36-1:24							
	1:24-2:12							
Practical	12:54- 4:06				AAB	AAB	AAB	

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal Dist-Sang.