

**Santaji Mahavidyalaya, Nagpur**  
**Program Outcomes, Specific Program Outcomes and Course Outcomes**

**Subject: Compulsory English**

**Programme Outcomes:**

- PO-1. To learn and understand listening skills in English  
 PO-2. To learn and understand reading skills in English  
 PO-3. To learn and understand spoken skills in English  
 PO-4. To learn and understand writing skills in English  
 PO-5. To express own ideas in English  
 PO-6. To communicate in English with confidence  
 PO-7. To summarize and analyze the texts prescribed in the syllabus  
 PO-8. To learn and make use of the grammar rules  
 PO-9. To learn and make use of punctuation rules  
 PO-10. To learn the sentence structure and make the correct use of them while constructing a new sentence

**Programme Specific Outcomes:**

- PSO-1. Able to learn the key concepts in English Language  
 PSO-2. Gain the knowledge of grammar rules and composition  
 PSO-3. Critically analyze the texts prescribed for the study  
 PSO-4. Critical appreciation of the poems prescribed for the study  
 PSO-5. Able to learn how to make pronunciation of particular word in English  
 PSO-6. Able to communicate with anybody with confidence in simple and correct English  
 PSO-7. Participate in the group discussions, seminars and Debates held in the classroom on any particular topic  
 PSO-8. All the skills in English Language

**Course Outcomes:**

1. The moral imparted in prose will have a positive impact on the mindset of the student.
2. The life of great personalities will motivate them to toil to be successful.
3. The syllabus will contribute in vocabulary enhancement.
4. The learners will get an opportunity to study Indian and English poets and develop a critical outlook through comparison.
5. The drafting skills of the learners will be honed through the prescribed items of grammar.

Course	Outcome: After completion of this course students should be able to:
B. A. I Semester I Unit I- Prose 1. The Thief-Ruskin Bond 2. Between the Mosque and the Temple- Boman Desai. 3. A Letter by Hazlitt to His Son-William Hazlitt 4. Education Provides a Solid Foundation-A.P.J. Abdul Kalam	CO-1. Know about the life and works of the authors Ruskin Bond, Boman Desai, William Hazlitt and A.P.J. Abdul Kalam CO-2. Know about the central idea of the lesson The Thief, Between the Mosque and the Temple, A Letter by Hazlitt to His Son, Education Provides a Solid Foundation CO-3. Know the summary of the lessons The Thief, Between the Mosque and the Temple, A Letter by Hazlitt to His Son, Education Provides a Solid Foundation

Unit II-Personalities Ramchandrarao Kirloskar and Laxmanrao Kirloskar Sudha Murty Muhammad Yunus	CO-1. Know about the biographical sketch of Ramchandrarao Kirloskar and Laxmanrao Kirloskar, Sudha Murty, Muhammad Yunus CO-2. To know the factors behind the success of Ramchandrarao Kirloskar and Laxmanrao Kirloskar, Sudha Murty, Muhammad Yunus CO-3. To know their contribution to Society and their nation
Unit II- Poetry In the Bazars of Hyderabad-Sarojini Naidu Daffodils-William Wordsworth To Autumn-John Keats The Highwayman-Alfred Noyes	CO-1. Know about the life and works of Sarojini Naidu, William Wordsworth, John Keats, Alfred Noyes CO-2. Know about the type of the poems In the Bazars of Hyderabad, Daffodils, To Autumn, The Highwayman CO-3. Know the central idea of the poems In the Bazars of Hyderabad, Daffodils, To Autumn, The Highwayman CO-3. To know the summaries of the poems In the Bazars of Hyderabad, Daffodils, To Autumn, The Highwayman CO-4. To make critical appreciation of the poems In the Bazars of Hyderabad, Daffodils, To Autumn, The Highwayman
Unit III- Short Stories Why I Want a Wife- Judy Brady The Selfish Giant- Oscar Wilde	CO-1. Learn about the life and works of Jude Brady and Oscar Wilde CO-2. To learn and understand the central idea of the stories Why I Want a Wife and The Selfish Giant CO-3. To learn and understand the theme of the short stories Why I Want a Wife and The Selfish Giant CO-4. Express their views about the short stories CO-5. Correlate the stories with the social context
Unit IV: Grammar and Compositions (i) Comprehension Letter Writing (Application with Resume, Placement of Order, Complaint Letter) Synonyms and Antonyms	CO-1. To learn and understand the different kinds of articles and their use in written English CO-2. To learn and understand different types of prepositions and their usage in English language CO-3. To learn and understand the meaning of synonyms and antonyms CO-4. To solve the exercises given on articles, prepositions, synonyms and antonyms

## B.A.I Sem-II Compulsory English

### Program Outcomes-

1. The learners will get an opportunity to study lessons based on themes containing humour, emotional bonding, ethics and values as these qualities are well expected in an Indian citizen.
2. The life sketches of successful people will motivate them to excel despite adverse conditions.
3. The poems will encourage the learners to shun violence and materialism.
4. Through Grammar and Composition the learners will gain confidence in Spoken English.

Sem II- Theory:80 MarksInternal: 20 Marks Unit I: Prose The Romance of a Busy Broker-O.Henry Miss Brill-Katherine Mansfield The Homecoming- Rabindranath Tagore Values in Life-Rudyard Kipling	The Students will be able to : CO-1. To learn and understand about the life and works of O.Henry, Katherine Mansfield, Rabindranath Tagore, Rudyard Kipling CO-2. To learn and understand the central idea, theme and summary of the story <i>The Romance of a Busy Broker, Miss Brill, The Homecoming and Values in Life</i> CO-3. To learn and understand the narrative techniques used by O.Henry, Katherine Mansfield, Rabindranath Tagore, Rudyard Kipling
Unit II: Personalities: Ratan Tata Sundar Pichai Louis Braille	CO-1. To learn and understand the life and works of Ratan Tata CO-2. To learn and understand the Contribution of Ratan Tata to Society CO-3. To learn and understand the biographical sketch and the achievement of Sundar Pichai CO-4. To learn and understand the difficulties faced by Louis Braille CO-5. To learn and understand the Contribution of Louis Braille for the uplift of Blinds.
Unit III- Poetry An Irish Airman Foresees His Death- W.B.Yeats Money Madness-D.H.Lawrence Stay Calm-Grenville Kleiser The Lotus-Toru Dutt	CO-1. To learn and understand the biographical sketch and Contribution of W.B.Yeats, D.H.Lawrence, Grenville Kleiser, Toru Dutt to English Poetry. CO-2. To learn and understand the central idea, theme and summary of the Poems An Irish Airman Foresees His Death, Money Madness, Stay Calm and The Lotus CO-3.To learn and understand the literary devices, imagery, symbols and figure of speech used by the poet W.B.Yeats, D.H.Lawrence, Grenville Kleiser, Toru Dutt CO 4- Sketch the characters of the mainand minor characters in the play
Unit IV: Grammar and Composition	CO-1. Learn and understand the rules of

Comprehension Paragraph Writing Subject-Verb Agreement	<p>changing degrees</p> <p>CO-2. Make use of the rules of changing degrees while transforming one degree into another</p> <p>CO-3. Learn and understand the rules of transforming Affirmative sentence into negative sentence and vice-versa</p> <p>CO-4. Make use of the rules of transforming affirmative sentence into negative sentence and vice-versa</p> <p>CO-5. Learn and understand the rules of transforming interrogative sentence into assertive sentence and vice versa</p> <p>CO-6. Make the correct use of rules while transforming interrogative sentences into assertive sentences and vice-versa</p> <p>CO-7. Learn and understand the rules of transforming exclamatory sentences into assertive sentences and vice-versa</p> <p>CO-8. Make the correct use of the rules while transforming exclamatory sentences into assertive sentences and vice-versa</p>
Course B. A. II Sem-III Prescribed Textbooks 1. Visionary Glimpses 2. Improve your English (Step Up-II)	<p>Outcome:</p> <p>After completion of the course students should be able to:</p>
Unit I: Prose My Lost Dollar- Stephen Leacock All About a Dog: A. G. Gardiner	<p>CO-1. Learn and understand the literary contribution of Stephen Leacock and A. G. Gardiner</p> <p>CO-2. Learn and understand the central idea of the lessons 'My Lost Dollar' and 'All About a Dog'</p> <p>CO-3. Learn and understand the theme of the lessons 'My Lost Dollar' and 'All About a Dog'</p> <p>CO-4. Learn to contextualize the story with contemporary era and the everyday life</p>
Unit II- Poetry Solitary Reaper: William Wordsworth A Psalm of Life: H. W. Longfellow	<p>CO-1. Learn and understand the literary contribution and the personal life of the poets William Wordsworth and H.W. Longfellow</p> <p>CO-2. Learn and understand the central idea of the poem 'Solitary Reaper' and 'A Psalm of Life'</p> <p>CO-3. Learn and understand the theme of 'Solitary Reaper' and 'A Psalm of Life'</p> <p>CO-4. Learn and understand to make critical appreciation of both the poems</p>

Unit III – Short Stories The Barbers’ Trade Union – MulkRaj Anand Moti – Sunilkumar Navin	CO1 – To know the discrimination based on caste to which Chandu fell prey CO2 – To learn how the lower caste people can teach the upper caste people a lesson by resorting to revolt. CO3 – To encourage compassion for animals CO4 – To learn the art of narration through storytelling technique
Unit IV: Grammar and Composition Punctuation (ii) Narration Comprehension Letter Writing	CO-1. Learn and understand the punctuation rules of English Language CO-2. Make the correct use of punctuation CO-3. Learn and understand the types and the rules of change of narration CO-4. Make correct use of the rules while changing the narration CO-5. Learn and understand the method of comprehension of unseen passage and to provide answers given below CO-6. Learn and understand the types of Letter Writing, their framework and the language used in each type of the letters CO-7. Make use of the ways of letter writing learnt while writing various types of sentences
Unit V: Conversational Skills: Note Taking-Exercises for summarizing Writing Tasks	CO-1. Learn and understand the ways of Note-taking and summarizing CO-2. Learn and understand to write in correct English on the given topic
Listening to the audio CD, Spoken English Foundation Course Vol.I and II Listening to the story and summarizing Meeting people, Exchanging greetings and taking leave Giving personal information Inviting People, Accepting and refusing an invitation	CO-3. Learn and understand the ways of listening audio CDs CO-4. Learn and understand the ways of listening the story and summarizing it CO-5. Learn the ways to receive the people and extend greetings to them and the ways of taking their leave CO-6. Learn and understand the ways of giving personal information CO-7. Learn and understand the ways of inviting people, accepting and refusing invitation
Course: B. A. II : Theory: 80 Marks Internal: 20 Marks Prescribed Textbooks; Visionary Glimpse Improve your English (Step Up-II)	Outcome: After completion of the course students should be able to:

Unit I: Prose The Doctor's Word: R.K. Narayan Monday Morning: Mark Twain	CO-1. To learn and understand the biographical information and the literary contribution of R.K. Narayan and Mark Twain CO-2. To learn and understand the central idea of the lessons 'The Doctor's Word' and 'Monday Morning' CO-3. To learn and understand the theme of the lessons 'The Doctor's Word' and 'Monday Morning' CO-4. Critically analyze the lessons and contextualizing them with contemporary world and everyday life
Unit II: Poetry Village school master- Oliver Goldsmith Say Not the Struggle Naught Availeth: Arthur Hugh Clough	CO-1. To learn and understand the biographical information and the literary contribution of Oliver Goldsmith and Arthur Hugh Clough CO-2. To learn and understand the central idea of the poems 'Village School Master' and 'Say Not the Struggle Naught Availeth' CO-3. Learn and understand the themes of the poems 'Village School Master' and 'Say Not the Struggle Naught Availeth' CO-4. Critically appreciate the above poems CO-5. Contextualizing the theme of the poems with the current scenario
Unit III- One Act Play Abu Hassan Pays His Debts- Ronald Hadlington	CO-1. To learn and understand the biographical information and literary contribution of the playwright CO-2. To know and understand the central idea of the one act play CO-3. Learn and understand the theme of the play CO-4. Sketch the major and minor characters in the play CO-5. Contextualizing the theme and character with the contemporary world
Unit IV: Grammar and Comprehension Grammar: Tenses Voice Comprehension of Unseen Passage	CO-1. Learn and understand the different types of tense forms of the verbs and their usage CO-2. Make proper use of the tense forms of the verbs CO-3. Learn and understand types of Voices and the rules to change them CO-4. Make proper use of the rules while changing one voice into another CO-5. Learn and understand the unseen passage given and to answer the questions given below

Unit V: Conversational Skills Apologising and responding to an apology Congratulating and Responding to Congratulations Developing Vocabulary Reading Newspapers Summarizing news article Writing Journalistic report Reading and recitations	CO-1. Learn and understand how to express an apology and responding to an apology by others CO-2. Learn and understand the ways of congratulating and responding to congratulations CO-3. Learn the ways and methods to develop vocabulary CO-4. Learn the ways of reading Newspapers CO-5. Learn to summarize the news article CO-6. Learn and understand the ways of writing Journalistic report CO-7. Learn and understand the ways of reading lessons and recitations of the poems
Course: Sem V: Theory: 80 Marks Internal: 20 Marks Prescribed Textbooks Glimpses of English Improve your English	Outcome After completion of the course students should be able to:
Unit I: Prose Playing the English Gentleman: A.G. Gardiner The Gold Frame: R.K. Laxman	CO-1. Learn and understand the brief biographical information and the literary contribution of A.G. Gardiner and R.K. Laxman CO-2. Learn and understand the central idea of the lessons 'Playing the English Gentlemen' and 'The Gold Frame' CO-3. Learn and understand the theme of the lessons 'Playing the English Gentlemen' and 'The Gold Frame' CO-4. Contextualizing the story with the contemporary situation
Unit II- Poetry She Walks in Beauty: Lord Byron The Lost Leader: Robert Browning	CO-1. :Learn and understand the biographical information and the literary contribution of Lord Byron CO-2. Learn and understand the central idea of the poems 'She Walks in Beauty' and 'The Lost Leader' CO-3- Learn and understand to summarize the poems 'She Walks in Beauty' and 'The Lost Leader' CO-4. Learn to make critical appreciation of the above poems

Unit III – Short Stories Kabuliwallah – Rabindranath Tagore The Open Window – Hector Hugh Munro	CO1 – To learn about the importance of Human Relationship irrespective of caste and creed. CO2 – To realize that real love does not know the barriers of nationality CO3 – To know that storytelling is a strong weapon to convince someone. CO4 – To make the students understand how emotional elements can be arisen through narration.
Unit IV: A) Applied Skills Writing an Inventory Report Writing an Advertisement Copy Essay Writing (Social, Environmental, Economic and Current Topics)	CO-1. Learn and understand the types of inventory reports and the ways to write the inventory reports CO-2. Learn and understand the types of advertisements and the ways to write them CO-3. Learn and understand the different types of essays and the ways to write them
Unit V: Conversational Skills 1. Situation at the Railway Station Complaining about a stale food product or eatable Complaining about a hyped bill Going to the Sarpanch and enquiring about widening of roads Approaching the MLA with a Request Translation of sentences Enacting your favourite mother tongue show in English	CO-1. Learn the ways of communication while encountering various situations at the Railway Station CO-2. Learn the ways to complain about a stale food product or eatable in English CO-3. Learn the ways to complain about a hyped bill to the competent authority CO-4. Learn the ways to approach the Sarpanch and make a request about widening of roads CO-5. Learn the ways to approach the MLA and making certain requests CO-6. Learn the method of translation of sentences CO-7. Learn the art of enacting favourite mother tongue show in English



<p>Course: Sem VI: Theory: 80 Marks Internal: 20 Marks Prescribed Textbooks 1.Glimpses of English 2. Improve your English</p>	<p>Outcome After completion of the course students should be able to:</p>
<p>Unit I: Prose Prescribed Lessons: With the Photographer- Stephen Leacock Spoken English and Broken English- G.B. Shaw</p>	<p>CO-1. Learn and understand the brief biographical information and literary contribution of Stephen Leacock and G.B. Shaw CO-2. Learn and understand the central idea of the lessons 'With the Photographer' and 'Spoken English and Broken English' CO-3. Learn and understand the theme of the lessons 'With the Photographer' and 'Spoken English and Broken English' CO-4. Contextualizing the lessons with the contemporary social situations</p>
<p>Unit II: Poetry River- A.K. Ramanujan The Bird Sanctuary- Sarojini Naidu</p>	<p>CO-1. Learn and understand the brief biographical information and the literary contribution of A.K.Ramanujan and Sarojini Naidu CO-2. Learn and understand the central idea of the poems 'River' and 'The Bird Sanctuary' CO-3. Learn the ways to summarize the poems 'River' and 'The Bird Sanctuary' CO-4. Make critical appreciation of the above poems</p>
<p>Unit III: One Act Play Chitra- Rabindranath Tagore</p>	<p>CO-1. Learn and understand the brief biographical information and the literary contribution of Rabindranath Tagore CO-2. Learn and understand the central idea of the One Act Play CO-3. Summarize the theme of the One Act Play CO-4. Sketch the character of major and minor characters in the play</p>
<p>Unit IV: Applied Skills Composing an Email Curriculum Vitae</p>	<p>CO-1. Learn the different types of writing Email CO-2. Learn the essentials of writing Email CO-3. Learn to write the Email CO-4. Learn and understand the steps to write Curriculum Vitae CO-5. Learn to write Curriculum Vitae</p>

Unit V: Conversational Skills Narrating the most embarrassing situation you have faced in your life Narrating jokes in English Sharing your experience of visiting a hospital Talking about oneself in interviews Spoken Report Group Discussion Role Play	CO-1. Learn the ways of narrating the most embarrassing situation they have faced in their lives CO-2. Learn the ways of narrating jokes in English CO-3. Learn the ways of sharing experience of visiting a hospital CO-4. Learn the ways of talking about oneself in interviews CO-5. Learn the ways of making spoken report CO-5. Learn the techniques of Group Discussion CO-5. Learn the ways of Role Playing
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### Subject: English Literature Program Outcome:

PO-1. Learn the various genres of literature

PO-2. Learn and understand various literary Movements in English Literature PO-3. Learn and understand various literary schools and major writers

PO-4. Learn and understand various periods of English Literature

PO-5. Learn and understand various literary theories and critical schools of English literature PO-6. Learn the various literary devices and their usages in literature

PO-7. Learn and understand various literary terms

PO-8. Learn to appreciate various genres of English Literature

### Programme Specific Outcome

PSO 1- Inculcate and develop literary taste

PSO2- Make critical appreciation of various genres of English Literature

PSO 3- Understand the various types of prose, poetry, drama, novels and short stories PSO 4- Summarize, interpret and make critical remarks

PSO 5- Learn the aesthetics of Literature

PSO 6- Learn the literary contribution of various writers

PSO 7- Learn the impact of socio-politico-religious situation on literature of the era. PSO 8- Gain special information about the writers and texts prescribed in the syllabus PSO 9- Develop skills of literary writing

PSO 10- Develop the skill of Role Play based on the texts prescribed in the syllabus

Course	Course Outcome
B. A. I, Semester I: English Literature Theory: 80 Marks Internal: 20 Marks Books Prescribed: from <i>Selections of Literature from Elizabethan to Restoration Ages</i> , Edited by Kapil Singhel, Madhavi Moharil, Dhanraj Shete (Orient Blackswan) Shakespeare: <i>Interpreting a Play: The Merchant of Venice</i> , Edited by Deepti Dharmani, Pankaj Sharma and Umed Singh (Macmillan Education)	After completion of the course students should be able to:

Unit I: (Poetry) <i><b>Selections of Literature from Elizabethan to Restoration Ages</b></i> : Easter:Edmund Spenser Let Not Old Age Disgrace My High Desire:Philip Sidney Sonnet to Sir Philip Sidney's Soul: Henry Constable The Treasure of Our Tongue:Samuel Danial Taking My Pen: Michael Drayton All the World's a Stage:Shakespeare A Hymn to God the Father:Ben Jonson	After completion of the course students should be able to:  CO-1. Learn the brief biographical information and the literary contribution of Edmund Spenser, Philip Sidney, Henry Constable, Samuel Danial , CO-2. Learn and understand the poetic types of the prescribed poems CO-3. Learn and understand the central idea of the prescribed poems CO-4. Learn to summarize the prescribed poems CO-5. Learn to make Critical appreciation of the prescribed poems CO-6. Learn to write the reference to context of the given stanzas from the prescribed poems CO-7. Learn to appreciate the aesthetic beauty of the prescribed poems
Unit II (Prose) The following essays of Francis Bacon from <i><b>Selections of Literature from Elizabethan to Restoration Ages</b></i> are prescribed: Of Friendship, Of Travel, Of Studies, Of Adversity	CO-1. Learn and understand the biographical account of Francis Bacon and his contribution to English Essay. CO-2. Learn and understand the aphoristic quality of Francis Bacon's essays CO-3. Learn and understand the practical approach of Francis Bacon's essays CO-4. To know the central idea and summary of Francis Bacon's essays Of Friendship, Of Travel, Of Studies, Of Adversity
Unit III (Shakespearean Drama ) Shakespeare: <i><b>Merchant of Venice</b></i> , Edited by by Deepti Dharmani, Pankaj Sharma and Umed Singh (Macmillan Education )	CO-1. Learn and understand the biographical account and contribution of Shakespeare to English theatre and English Drama. CO-2. Learn and understand the outline story and act wise summary of the play <i><b>Merchant of Venice</b></i> CO-3. Analyze the major and minor characters in the play. CO-4. Analyze <i><b>Merchant of Venice</b></i> as a Romantic Comedy.
Unit IV (Literary Forms and Terms) <b>Forms of Drama:</b> Tragedy, Comedy, Tragi-Comedy, Farce and Melodrama, Chronicle Play, Poetic Drama, Problem Play, Absurd Drama <b>Literary Terms:</b> Conceit, Decorum, Denouement, Dialect, Epigraph, Epiphany, Epitaph, Euphemism	CO-1. Learn and understand various types of play like Tragedy, Comedy, Tragi-Comedy, Farce and Melodrama, Chronicle Play, Poetic Drama, Problem Play, Absurd Drama  CO-2. Learn and understand the literary terms Conceit, Decorum, Denouement, Dialect, Epigraph, Epiphany, Epitaph, Euphemism and their usages.
Course Course: Semester II: English Literature Theory: 80 Marks Internal: 20 Marks	Outcome: After Completion of the course students should be able to

Unit I: Prescribed Poems from Poetic Quest (Poetry) <b><i>Selections of Literature from Romantic to Victorian Ages</i></b> are prescribed: Go and Catch the Falling Star: John Donne The Pulley: George Herbert On his Being Arrived to the Age of Twenty-Three: John Milton Prithee Send Me Back My Heart: Sir John Suckling The Grasshopper: Abraham Cowley To the Memory of Mr. Oldham: John Dryden Ode on Solitude: Alexander Pope	CO-1. Learn and understand the brief biographical information and the literary contribution of John Donne, George Herbert, John Milton, Sir John Suckling, Abraham Cowley, John Dryden, Alexander Pope  CO-2. Learn and understand the poetic types of the prescribed poems CO-3. Learn and understand the central idea of the prescribed poems CO-4. Learn to summarize the prescribed poems CO-5. Learn to make Critical appreciation of the prescribed poems CO-6. Learn to write the reference to context of the given stanzas from the prescribed poems CO-7. Learn to appreciate the aesthetic beauty of the prescribed poems
Unit II (Prose) The following <b><i>Selections of Literature from Romantic to Victorian Ages</i></b> are prescribed: Dream Children- A Reverie: Charles Lamb A Bachelor's Complaint of the Behaviour of Married People: Charles Lamb On Reading Old Books: William Hazlitt On the feeling of Immortality in Youth: William Hazlitt	CO-1. Learn and understand the brief biographical information and contribution of Charles Lamb and William Hazlitt to the genre of Essay. CO-2. Learn and understand Charles Lamb as Personal Essayist. CO-3. Learn and understand William Hazlitt as a writer of Humanistic essays CO-4: Learn and understand the central idea and summary of Dream Children, A Bachelor's Complaint of the Behaviour of Married People, On Reading Old Books, On the feeling of Immortality in Youth
Unit III (Novel) Jane Austen: <b><i>Pride and Prejudice</i></b> (Abridged Edition, Macmillan Education)	CO-1. Learn and understand the biographical account and literary contribution of Jane Austen to the genre of English Novel CO-2. Understand the Outline story and summary of the Novel <b><i>Pride and Prejudice</i></b> <b>CO-3.</b> To analyze the major and minor characters in the Novel <b><i>Pride and Prejudice</i></b> <b>CO-4.</b> To analyze <b><i>Pride and Prejudice</i></b> as Novel of Manner
Unit IV: (Literary Forms and Terms) <b>Novel Types:</b> Picaresque Novel, Epistolary Novel, Gothic Novel, Sentimental novel, Historical Novel, Domestic Novel, Regency Novel, Black Comedy <b>Literary Terms:</b> Maxim, Memoir, Metonymy, Mimesis, Mythology, Novella, Onomatopoeia, Oxymoron	CO-1. Learn the various literary devices CO-2. Learn and understand the use of literary devices and terms in various poetic forms
Course: B.A.II Semester-III English Literature Theory: 80 Marks	Outcome: After completion of the course the students should

Internal: 20 Marks Books Prescribed: Essays of Wisdom A Background to the Study of English Literature A Handbook of Literary Terms The Guide by R.K. Narayan	be able to:
Unit I: Essays of Wisdom: The Essays Prescribed: The Trumpet Club- Richard Steele Dream Children-Charles Lamb Third Thoughts- E.V.Lucas The Rule of the Road- A.G.Gardiner On Good Resolutions- Robert Lynd My Forchurn-J.B.Pristley	CO-1. Learn and understand the brief biographical information and the literary contribution of the essayists Richard Steele, Charles Lamb, E.V.Lucas, A.G.Gardiner, Robert Lynd and J.B.Priestley CO-2. Learn and understand the central ideal of the essays prescribed CO-3. Learn and understand the theme of the essays prescribed. CO-5. Learn the literary devices employed by the essayists in the prescribed essays CO-6. Acquire the skill of writing reference to context of the lines taken from the prescribed essays
Unit II: The Guide: R.K. Narayan	CO-1. Learn and understand the biographical information and the literary contribution of R.K.Narayan for Indian Literature in English CO-2. Learn the brief outline of the novel CO-3. Learn the central theme of the novel CO-4. Understand the plot of the novel CO-5. Learn the technique and style of narration employed by R.K.Narayan in the novel CO-6. Sketch the major and minor characters in the novel
Unit III: Prescribed portion from A Background to the Study of English Literature: Section III(Prose)-Chapter I, II and III	CO-1. Learn the origin and development of the essay CO-2. Learn the various types of essays CO-3. Learn the contribution of individual essayists to English Literature CO-3. Learn the origin and development of Novel in English CO-4. Learn the development of novel in the 18 <sup>th</sup> , 19 <sup>th</sup> and 20 <sup>th</sup> century CO-5. Learn the various types of novel CO-6. Learn the contribution of individual novelists and the form of novel they developed CO- 7. Learn the origin and development of the short story CO-8. Learn the structure of short story CO-9. Learn the development of short story in the modern age

Unit IV:Literary Terms- Ambiguity, Archaism, Euphuism, Gothic Novel, New Criticism, Narrative, Point of View and Stock Characters	CO-1.Learn and understand the literary terms prescribed in the syllabus CO-2. Learn the application of literary terms while studying various genres of prose literature
Course: B.A.II Semester -IVEnglish Literature Theory: 80 Marks Internal: 20 MarksBooks Prescribed: Popular Short Stories Animal Farm-George Orwell 3) A Background to the Study of English Literature A Handbook of Literary Terms	Outcome: After completion of the course the studentsshould be able to:
Unit I: Prescribed Short Stories: The Child- Premchand The Golden Watch- Mulk RajAnand The Tiger for Malgudi- R.K.Narayan A Cup of Tea- KatherineMansfield The Last Leaf- O Henry The Bet- Anton Chekov	CO-1. Learn and understand the brief biographical information and literary contribution of the short story writes Premchand, Mulk Raj Anand, R.K.Narayan, Katherine Mansfield, O Henry and Anton Chekov CO-2. Learn and understand the plot of the prescribed short stories CO-3. Sketch the major and minor character of the short story CO-4. Understand the message from the prescribed short stories CO-5. Learn the various literary devices employed by the short story writers in the prescribed short stories
Unit II: Animal Farm- George Orwell	CO-1.Learn the biographical information and literary contribution of George Orwell CO-2. Understand the historical background of the novel CO-3. Learn and understand the main theme of the novel CO-4. Learn and understand the allegorical method employed by the novelist CO-5. Sketch the major and minor charactersin the novel

Unit III: Prescribed Portion from A Background to the Study of English Literature:Section III(Prose)-Chapter IV, V&VI	CO-1.Learn and understand the definition,origin and development of the Biography CO-2. Learn and understand the differencebetween pure and impure biography CO-3. Learn and understand the Basis of Biographical instinct CO-4. Learn and understand the difficulties of the biographer and modern trends of biography writing CO-5. Learn and understand the definition ofthe autobiography and difference between subjective and objective autobiography CO-5. Learn and understand the difficulties ofthe autobiographer CO-6. Learn and understand the definition and function of criticism CO-7. Learn and understand difference between Classical and Romantic Criticism CO-8. Learn and understand the relation between criticism and literature CO-9. Learn and understand the qualification required to be a good critic CO-10. Learn and understand various theoriesof literature and criticism CO-11. Learn and understand the connotationof style, personality in style and the factors responsible for a style CO-!2. Learn and understand Grand Style andthe importance of style in literature
Unit IV: Literary Terms: Stream of Consciousness, Plot, Parable, Picaresque Novel, Utopia, Novella, Decorum, Sentimental Novel	CO-1. Learn and Understand in detail the prescribed literary terms. CO-2. Learn and understand their use invarious prose literature
Course: B.A.III Semester -VEnglish Literature Theory: 80 Marks Internal: 20 MarksBooks Prescribed: 1) Merchant of Venice- WilliamShakespeare Old Stone Mansion- Mahesh Elkunchwar 3) A Background to the Study of English Literature A Handbook of Literary Terms	Outcome: After completion of the course the studentsshould be able to:

Unit I: Merchant of Venice	CO-1. Learn the brief biographical information and literary contribution of William Shakespeare CO-2. Learn the Historical Background of the Play CO-3. Learn and understand the plot of the play CO-4. Make Critical analysis of each act of the play CO-5. Sketch the major and minor characters in the play CO-6. Learn to write reference to context of the lines taken from the play
Unit II. Old Stone Mansion	CO-1. Learn the brief introduction and literary contribution of Mahesh Elkunchwar CO-2. Learn and understand the plot of the play CO-3. Make critical analysis of the play CO-4. Sketch the major and minor characters in the play
Unit III: Prescribed Portion from the Background to the Study of English Literature-Section II(Drama)-Chapter I, II, III and IV	CO-1. Learn and understand the difference between drama and fiction CO-2. Learn and understand the structure of the play CO-3. Learn and understand Realism and Romance reflected in the play CO-4. Learn and understand the difference between Tragedy and comedy CO-5. Learn and understand types of tragedy and types of Comedy CO-6. Learn and understand Tragi-comedy, its origin and development and its distinguishing features CO-7. Learn and understand the distinguishing features of Farce and Melodrama and their distinguishing features CO-8. Learn and understand the origin, distinguishing features and the decline of the Masque CO-9. Learn and understand the Dramatic Monologue, its characteristics, Its dramatic nature and Browning's contribution to the form CO-10. Learn and understand various dramatic devices like Dramatic Irony, Soliloquy and Aside, Expectations and Surprise and the importance of Dramatic devices CO-12. Learn and understand the origin of the English Drama



Unit IV:Literary Terms- Surprise, Suspense, Sub-plot, Anti-hero, Intrigue, Catharsis, Three Unities, Hamartia	CO-1. Learn and understand the prescribed literary terms CO-2. Find out the use of the literary terms in various plays
Course: B.A.III Semester-VIEnglish Literature Theory: 80 Marks Internal: 20 MarksBooks Prescribed: Macbeth- William Shakespeare 2) She Stoops to Conquer- OliverGoldsmith 3) A Background to the Study of English Literature A Handbook of Literary Terms	Outcome: After completion of the course the studentsshould be able to:
Unit I: Macbeth-William Shakespeare	CO-1. Learn and understand the brief biographical information and the literary contribution of William Shakespeare CO-2. Learn and understand the famous tragedies written by William Shakespeare CO-3. Learn and understand the brief outlineof the story of the play ‘Macbeth’ CO-4. Learn and understand the Main Plot ofthe Play CO-5. Learn and understand the rolesupernatural power in Macbeth CO-6. Learn and understand ‘Macbeth as a Shakesperean Tragedy’ CO-7. Sketch the major and minor charactersin the play CO-8. Write the reference to context of thegiven dialogues
Unit II: She Stoops to Conquer- OliverGoldsmith	CO-1.Learn and understand the brief information and literary contribution of OliverGoldsmith CO-2. Learn and understand the brief outline of the story of the play‘She Stoops to Conquer’CO-3. Learn and und understand the main plot of the play ‘She Stoops to Conquer’ CO-4. Learn and understand ‘She Stoops to Conquer’ as a Comedy CO.5. Sketch the major and minor charactersin the play CO-6. Write the reference to context of the given passages from the play ‘She Stoops toConquer’
Unit III: Prescribed Portion from A Background to the Study of English Literature(Section II(Drama)-Chapter V, VI and VII	CO-1. Learn and understand the origin of the English Theatre CO-2. Learn and understand Elizabethan Stage Conditions CO-3. Learn and understand Quartos andFolios CO-4. Learn and understand the characteristic features of Shakespearean Comedy CO-5. Learn and understand the characteristic features of Shakespearean Tragedy

	CO-6. Learn and understand the characteristic features of Shakespearean Romance CO-7. Learn and understand the characteristic features of Shakespeare's English Historical Plays CO-8. Learn and understand what 'Dramatic Modernism' is. CO-9. Learn and understand The Irish Theatre Movement CO-10. Learn and understand about Verse Drama CO-11. Learn and understand about the Absurdist Drama
Unit IV: Literary Terms- Comic Relief, Closet Drama, Existentialism, Folk Drama, Domestic Tragedy, Comedy of Manners, Comedy of Humours, Heroic Drama	CO-1. Learn and understand the prescribed literary terms CO-2. Make use of the literary terms to identify of the literary devices employed in particular Drama CO-3. Make use of literary terms to identify various categorize Dramas studied.

## B.COM –I SEMESTER I

### Course Content

**Prescribed Text: Epiphanies by Board of Editors (Publisher: Orient Blackswan)**

**Theory:80 Marks**

**Internal:20 Marks**

<b>Unit 1:Prose</b> Sreelakshmi Suresh Why a Startup Needs to Find its Customers First-Pranav Jain Devender Pal Singh <b>Unit 2:Prose</b> The Model Millionaire-Oscar Wilde The Monkey's Paw-W.W.Jacobs The Lumber Room-Saki <b>Unit 3:Poetry</b> Invictus: William Ernest Henley The Builders: <i>Henry Wadsworth Longfellow</i> Stay Calm-Grenville Kleiser  <b>Unit 4:Writing Skills</b> Emails Speeches Views and Opinions  <b>Unit 5:Language Study</b>	After the completion of the course students will be able to:  CO-1. Understand the biographical account and the contribution of Sreelakshmi Suresh in Web-designing CO-2.know the suggestions by Pranav Jain to run successfully a Startup. CO-3.Understand the life story of Devender Pal Singh and his success as a blade runner CO-4. To learn and understand the biographical account and literary contribution of Oscar Wilde CO-5. To learn and understand the summary of the story <i>The Model Millionaire</i> . CO-6. Learn and understand the biographical account and literary contribution of W.W.Jacobs CO-7. Learn and understand the story of the one act play <i>The Monkey's Paw</i>
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Nouns Pronouns Verbs Adjectives Adverbs Prefixes Suffixes Root Words	CO-8. Learn and understand the biographical account and literary contribution of Saki CO-9. Learn and understand the short story <i>The Lumber Room</i> CO-10. Learn and understand the biographical account and literary contribution of William Ernest Henley, Henry Wadsworth, Grenville Kleiser CO-11. Learn and understand the central idea and summary of the poems <i>Invictus</i> , <i>The Builders</i> and <i>Stay Calm</i> CO-12. Learn and understand the types, method of writing and preparing Emails and Speeches CO-13. Learn and understand to form views and opinions CO-14. Learn and understand about Nouns, Pronouns, Verbs, Adjectives, Adverbs, Prefixes, Suffixes, Root Words as grammatical categories and their usages in constructing sentences and forming words.
<b>B.COM –I SEMESTER II</b> <b>Course Content</b> <b>Prescribed Text: Epiphanies by Board of Editors(Publisher: Orient Blackswan)</b> <b>Unit 1:Prose</b> Stephen Hawking How to be a Healthy User of Social Media- Peggy Kern Jadav Payeng  <b>Unit 1:Prose</b> Luck-Mark Twain How I Became a Public Speaker-George Bernard Shaw My Lord, the Baby-Rabindranath Tagore  <b>Unit 3:Poetry</b> Success is Counted Sweetest-Emily Dickinson The World is Too Much With Us-William Wordsworth No Man is an Island-John Donne  <b>Unit 4:Writing skills</b> Weave Your Idea/Story Interviews Narrating an Experience  <b>Unit 5:Language Study</b> Articles Prepositions	CO-1. Learn and understand the biographical account of Stephen Hawking and his immense contribution in the field of Physics and Cosmology CO-2. Learn and understand the advice and ideas of Peggy Kern to be a Healthy User of Social Media CO-3. Learn and understand the biographical account of Jadav Payeng, his contribution in Environment Protection and emergence as the Forest Man of India CO-4. Learn and understand the biographical account and literary contribution of Mark Twain, George Bernard Shaw and Rabindranath Tagore CO-5. Learn and understand the story of Luck, Ideas shared in How I Became a Public Speaker and My Lord, the Baby CO-6. Learn and understand the biographical account and literary contribution of Emily Dickinson, William Wordsworth and John Donne CO-7. Learn and understand the central idea, summary and literary devices used in the poems <i>Success is Counted Sweetest</i> , <i>The World is Too Much With Us</i> and <i>No Man is an Island</i> CO-8. Learn and understand Weaving ideas, Writing story, tips for appearing in and facing interviews and narrate experience

Conjunctions Interjection	they have undergone CO-9. Learn and understand Articles, Prepositions, Conjunctions and Interjections as a grammatical category and their usages improvement in the speed of reading along with better understanding. CO-2. Proper interpretation of the matter will be focused. CO-3. Proper use of words will be the focus. Students will be trained to analyze and interpret the matter.
<b>B.COM –II SEMESTER III</b>	CO-1. Writing skills will be improved by making the students learn different words and their use. CO-2. Use of body language in communication will be focused. Co-3. Enhancement of vocabulary will continue to be the focus. CO-4. Insight into literature will be provided
<b>B.COM – II SEMESTER IV</b>	CO-1. Formal communication will be focused to prepare students for facing interview and the other stuff. CO-2. Formal written communication will also be the focus to enable them to write formal letters, resume etc. CO-3. Overall personality development will be worked on which will prove beneficial in future.

### **BBA Semester 1 - Compulsory English**

#### **Program Outcomes:**

- PO-1. To learn and understand listening skills in English.
- PO-2. To learn and understand reading skills in English.
- PO-3. To learn and understand spoken skills in English.
- PO-4. To learn and understand writing skills in English.
- PO-5. To express own ideas in English.
- PO-6. To communicate in English with confidence.
- PO-7. To summarize and analyze the texts prescribed in the syllabus.
- PO-8. To learn and make use of the grammar rules.
- PO-9. To learn and make use of punctuation rules.
- PO-10. To learn the sentence structure and make the correct use of them while constructing a new sentence.

#### **Program Specific Outcomes:**

- PSO-1. Able to learn the key concepts in English Language.  
in the group discussions, seminars and Debates held in the classroom on any particular topic.
- PSO-2. Gain the knowledge of grammar rules and composition.

- PSO-3. Critically analyze the texts prescribed for the study.
- PSO-4. Critical appreciation of the poems prescribed for the study.
- PSO-5. Able to learn how to make pronunciation of particular word in English.
- PSO-6. Able to communicate with anybody with confidence in simple and correct English.
- PSO-7. Participate

### Course Outcomes

Course	Outcomes
<b>BBA Semester I (English)</b> Unit I-Stories Home-Coming- Tapati Dey The light-house Keeper of Aspinwall- Henryk Sienkiewicz Ilyas- Leo Tolstoy	After completion of this course students should be able to: CO-1. Know about the life and works of the authors Tapati Dey, Henryk Sienkiewicz and Leo Tolstoy CO-2 Know the central idea of the lessons Home-Coming, The Light-house Keeper of Aspinwall and Ilyas CO-3 Learn certain lessons having practical application in life from the fictitious stories.
Unit II- Articles Social Media- Sujata Chakravorty World of Advertising- Pranjali Kane OYO- Reinventing Hospitality	CO-1 Know different social media platforms; their advantages and disadvantages. CO-2 Learn about different ways of advertising and how they work. CO-3 Know about the inspiring story of the founder of OYO
Unit III- Business Manners- Body language, gestures, telephone etiquettes, email etiquettes. Business correspondence- Business letter writing, Enquiries and replies, placing and fulfilling orders, complaints and follow-up letters, circular letters, application for employment and resume.	CO- 1 Learn about how the formal communication is made; what are the dos and don'ts of the communication. CO-2 Write letters regarding business correspondence. CO-3 Prepare a proper resume and write application in a formal manner.
Unit IV – Basic Grammar- Tense, forms of verb, Preposition, Articles, Punctuation, Single word for group of words, Sentence construction, Comprehension.	CO-1 Learn the basics of grammar and how to use them. CO-2 To learn and understand the different kinds of articles and their use in written English CO-3 Enhance their knowledge about the English language.
<b>BBA Sem II (English)</b> Unit I- Stories The Dispenser of Holy Water- Guy de Maupassant After Twenty Years- O' Henry The Wall- Sunil Kumar Navin	CO-1 Know about the life and works of the authors Guy de Maupassant, O' Henry, Sunil Kumar Navin. CO-2 Learn different stories. CO-3 Learn real time situations and how to tackle them.
Unit II- Articles Beware! You are being Tracked- Supantha Bhattacharyya What is Integrity? Subroto Bagchi Unsung Women Achievers of Contemporary India- Subhashree Mukherjee.	CO-1 Know about different means of fraud that happen online and how to avoid being prey to them. CO-2 Learn about the Bagchi's experiences and how to inculcate them in one's life. CO-3 Know about the achievements of women in different arenas and get inspiration from their success stories.

Unit III- Business Communication- Memorandum Writing, Notice, Agenda and Minutes, Writing Ads for Rent, Sale, Situation Vacant.	CO-1 Learn various office related formal operations. CO-2 Learn how to write notice, agenda and minutes. CO-3 Write formal advertisements.
Unit IV- Subject-verb agreement, Concord of nouns, pronouns and possessive adjectives, spotting errors, rewriting sentences, Synonyms and antonyms, Words often confused.	CO-1 Learn more aspects related to English grammar. CO-2 Learn correcting the sentences and write them properly. CO- Learn the synonyms and antonyms and the similar sounding words and their usage.
<b>B.Com Sem I (Compulsory English)</b> Unit I Prose Sreelakshmi Suresh Why a Start-up Needs to Find its Customer First- Pranav Jain Devender Pal Singh	CO-1 Learn about the personal lives and achievements of some people. CO-2 Know about the basics of start-ups CO-3 Know about the dos and don'ts of entrepreneurship.
Unit II- Prose The Model Millionaire- Oscar Wilde The Monkey's Paw- W. W. Jacob The Lumber Room- Saki	CO-1 Know about the different authors. CO-2 Learn the stories and their summaries. CO-3 Learn about the supernatural elements incorporated in the story.
Unit III- Poetry Invictus- William Earnest Henley The Builders- H.W. Longfellow Stay Calm- Grenville Kleiser	CO-1 Know about the life and works of some authors. CO-2 Know the central ideas of the poems CO-3 Know different figures of speeches.
Unit IV -Writing Skills Emails Speeches Views and Opinions	CO-1 Learn how to compose an email in a proper manner. CO-2 Learn how to prepare and deliver speech in an effective manner.
Unit V- Language Study Nouns, Pronouns, Verbs, Adjectives, Adverbs, Prefixes, Suffixes, Root Words.	CO-1 Learn the nouns and pronouns and their usage CO-2 Learn the Adjectives and Adverbs and their application CO-3 Learn the usage of Prefixes and Suffixes.
<b>B.Com Sem II Compulsory English</b> Unit I- Prose Stephen Hawking How to be a Healthy User of Social Media- Peggy Kern JadavPayeng	CO-1 Learn about the life and achievements of Stephen Hawking. CO-2 Know about how to use social media in a very positive sense. CO- Learn about the life and achievement of JadavPayeng
Unit II Prose Luck- Mark Twain How I Became a Public Speaker- G.B. Shaw My Lord, the Baby- Rabindranath Tagore	CO-1 Learn about the works of authors like Mark Twain, G.B. Shaw and Rabindranath Tagore. CO-2 Learn the fictitious incidents with practical application. CO-3 Improve the vocabulary.
Unit III Poetry Success is Counted Sweetest- Emily Dickinson The World is Too Much With US- William Wordsworth No Man is an Island- John Donne	CO-1 Know about the poets like Emily Dickinson, William Wordsworth and John Donne. CO-2 Learn the gist of the prescribed poems. CO-3 Write the summary and critical appreciation of the poems.
Unit IV –Writing Skills	CO-1 Polish critical thinking and evaluate information and

Weave Your Idea Interviews Narrating an Experience	situation. CO-2 Learn how to prepare for an interview. CO-3 Learn how to narrate any experience in one's own words.
Unit V Language Study Articles, Prepositions, Conjunctions, Interjections.	CO-1 Learn different articles and their usage. CO-2 Learn various prepositions and their application CO-3 Learn conjunctions and interjections.
<b>B. Com. II, Semester III</b>	CO-1. To develop student's English language to move stone of learning English as a foreign language. CO-2. The course helps students to improve their basic language skills like listening, speaking and reading comprehension. CO-3. It helps to enhance students' confidence to express their responses effectively. CO-4. Student can develop the ability to write without mistake by using correct vocabulary and grammar
<b>B. Com. II, Semester IV</b>	CO-1. To develop students' English language to move a stone of learning English as a foreign language. CO-2. The course helps students to improve their basic language skills like listening, speaking and reading comprehension. CO-3. It helps to enhance students' confidence to express their responses effectively. CO-4. Students can develop the ability to write without mistake by using correct vocabulary and grammar
<b>B.Com Sem I (Supplementary English)</b> 1 Listening Skills The Boy who Broke the Bank- Ruskin Bond 2 Teamwork Skills Whitewashing the Fence- Mark Twain 3 Emotional Intelligence Skills My Financial Career- Stephen Leacock 4 Assertive Skills The Verger- Somerset Maugham 5 Learning Skills Three Questions- Leo Tolstoy	CO-1 Learn different skills like listening skills, team works skills, learning skills etc. CO-2 Learn various stories and their central ideas. CO-3 Learn various proverbs from different languages and their usage. CO-4 Improve vocabulary by learning different words and phrases and their meanings.
<b>B.Com Sem II (Supplementary English)</b> 1 Problem Solving Skills The Lookout Man 2 Interview Skills The Lighthouse Keeper of Aspinwall- Henryk Sienkiewicz 3 Adaptability Skills Senor Payroll- W. E. Barrett 4 Non-verbal Communication Skills Gateman's Gift- R. K. Narayan	CO-1 Learn different skills like problem-solving skills, interview skills etc. CO-2 Learn some skills related stories and their summaries. CO-3 Learn various proverbs from different languages and their usage. CO-4 Improve vocabulary by learning different words and phrases, their meaning and usage in various contexts.

**Program Outcomes:**

- PO-1. To learn and understand listening skills in English.
- PO-2. To learn and understand reading skills in English.
- PO-3. To learn and understand spoken skills in English.
- PO-4. To learn and understand writing skills in English.
- PO-5. To express own ideas in English.
- PO-6. To communicate in English with confidence.
- PO-7. To summarize and analyze the texts prescribed in the syllabus.
- PO-8. To learn and make use of the grammar rules.
- PO-9. To learn and make use of punctuation rules.
- PO-10. To learn the sentence structure and make the correct use of them while constructing a new sentence.

**Program Specific Outcomes:**

- PSO-1. Able to learn the key concepts in English Language.
- PSO-2. Gain the knowledge of grammar rules and composition.
- PSO-3. Critically analyze the texts prescribed for the study.
- PSO-4. Critical appreciation of the poems prescribed for the study.
- PSO-5. Able to learn how to make pronunciation of particular word in English.
- PSO-6. Able to communicate with anybody with confidence in simple and correct English.
- PSO-7. Participate in the group discussions, seminars and Debates held in the classroom on any particular topic.

**Course Outcomes**

<b>Course</b>	<b>Outcomes</b>
<b>BBA Semester I (English)</b>	After completion of this course students should be able to:
Unit I- Stories Home-Coming- Tapati Dey The light-house Keeper of Aspinwall- Henryk Sienkiewicz Ilyas- Leo Tolstoy	CO-1. Know about the life and works of the authors Tapati Dey, Henryk Sienkiewicz and Leo Tolstoy CO-2 Know the central idea of the lessons Home-Coming, The Light-house Keeper of Aspinwall and Ilyas CO-3 Learn certain lessons having practical application in life from the fictitious stories.
Unit II- Articles Social Media- Sujata Chakravorty World of Advertising- Pranjali Kane OYO- Reinventing Hospitality	CO-1 Know different social media platforms; their advantages and disadvantages. CO-2 Learn about different ways of advertising and how they work. CO-3 Know about the inspiring story of the founder of OYO
Unit III- Business Manners- Body language, gestures, telephone etiquettes, email etiquettes. Business correspondence- Business letter writing, Enquiries and replies, placing and fulfilling orders, complaints and follow-up letters, circular letters, application for employment and resume.	CO- 1 Learn about how the formal communication is made; what are the dos and don'ts of the communication. CO-2 Write letters regarding business correspondence. CO-3 Prepare a proper resume and write application in a formal manner.



Unit IV – Basic Grammar- Tense, forms of verb, Preposition, Articles, Punctuation, Single word for group of words, Sentence construction, Comprehension.	CO-1 Learn the basics of grammar and how to use them. CO-2 To learn and understand the different kinds of articles and their use in written English CO-3 Enhance their knowledge about the English language.
<b>BBA Sem II (English)</b> Unit I- Stories The Dispenser of Holy Water- Guy de Maupassant After Twenty Years- O’ Henry The Wall- Sunil Kumar Navin	CO-1 Know about the life and works of the authors Guy de Maupassant, O’ Henry, Sunil Kumar Navin. CO-2 Learn different stories. CO-3 Learn real time situations and how to tackle them.
Unit II- Articles Beware! You are being Tracked- Supantha Bhattacharyya What is Integrity? Subroto Bagchi Unsung Women Achievers of Contemporary India- Subhashree Mukherjee.	CO-1 Know about different means of fraud that happen online and how to avoid being prey to them. CO-2 Learn about the Bagchi’s experiences and how to inculcate them in one’s life. CO-3 Know about the achievements of women in different arenas and get inspiration from their success stories.
Unit III- Business Communication- Memorandum Writing, Notice, Agenda and Minutes, Writing Ads for Rent, Sale, Situation Vacant.	CO-1 Learn various office related formal operations. CO-2 Learn how to write notice, agenda and minutes. CO-3 Write formal advertisements.
Unit IV- Subject-verb agreement, Concord of nouns, pronouns and possessive adjectives, spotting errors, rewriting sentences, Synonyms and antonyms, Words often confused.	CO-1 Learn more aspects related to English grammar. CO-2 Learn correcting the sentences and write them properly. CO- Learn the synonyms and antonyms and the similar sounding words and their usage.

#### B.SC. Compulsory – English

##### Programme Specific Outcomes:

- PSO-1. Able to learn the key concepts in English Language
- PSO-2. Gain the knowledge of grammar rules and composition
- PSO-3. Critically analyze the texts prescribed for the study
- PSO-4. Critical appreciation of the poems prescribed for the study
- PSO-5. Able to learn how to make pronunciation of particular word in English
- PSO-6. Able to communicate with anybody with confidence in simple and correct English
- PSO-7. Participate in the group discussions, seminars and Debates held in the classroom on any particular topic
- PSO-8. All the skills in English Language

##### Course Outcomes:

<p><b>B.Sc.I Semester I Compulsory English</b>  <b>Unit I - Prose</b>  1. My Struggle for an Education - Booker T. Washington  2. Florence Nightingale - Lytton Strachey</p> <p><b>Unit II - Prose</b>  3. The Birth of Khadi - Mahatma Gandhi  4. Go, Kiss the World! - Subroto Bagchi</p>	<p>CO-1. Learn and understand the brief biographical information and literary contribution of Booker T. Washington, Lytton Strachey, Mahatma Gandhi, Subroto Bagchi.  CO-2. Learn and understand the fact that with tenacity and ambition one can achieve what one wants in life  CO-3. Learn and understand insight into the life of Florence Nightingale.  CO-4. learn that success is about the vision and ability to rise above pain.  CO-5. Contextualizing the lessons with the contemporary social situations</p>
<p><b>Unit III - Poetry</b>  1. Ulysses - Alfred Tennyson  2. Yussouf - James Russell Lowell  3. If - Rudyard Kipling</p>	<p>CO-1. To learn and understand the biographical information and the literary contribution Alfred Tennyson, James Russell Lowell.  CO-2. To learn and understand the central idea of the poems 'Ulysses', 'Yussouf' and 'If'.  CO-3. Critically appreciate the above poems  CO-4. Contextualizing the theme of the poems with the current scenario</p>
<p><b>Unit IV - Comprehension &amp; Grammar</b>  1. Comprehension of Unseen Passage  2. Prepositions  3. Subject-verb agreement  4. Summarizing</p>	<p>CO-1. To learn and understand the different kinds of articles and their use in written English  CO-2. To learn and understand different types of prepositions and their usage in English language  CO-3. To learn and understand Subject-verb agreement  CO-4. To solve the exercises given on prepositions, Subject-verb agreement</p>
<p><b>B. Sc. I Semester II Compulsory English</b>  <b>Unit I - Prose</b>  1. Grassroots Innovation and Social Enterprise: Changing Lives  2. The Two Gentlemen of Verona</p> <p><b>Unit II - Prose</b>  3. The Verger  4. Synthesis of Science and Spirituality</p> <p><b>Unit III - Poetry</b></p>	<p>CO-1. Learn how grassroots innovations can bring a big change in lives of common people.  CO-2. Learn hardwork is the key to success and nothing in the world is impossible.  CO-3. lesson learn from verger to fix your weakness only if they prevent you from being successful.  CO-4. Learn that for ascent of humanity, we require this synthesis of science and spirituality.</p>

<b>Unit III - Poetry</b> 1. Richard Cory –Edwin Arlington Robinson 2. Allow Sanity A Little Space-Sunil kumarNavin 3. Refugee Blues-W.H.Auden	CO-1. To learn and understand the biographical information and the literary contribution of Edwin Arlington Robinson , Sunil kumarNavin, W.H.Auden CO-2. To learn and understand the central idea of the poems ‘. Richard Cory’,’ Allow Sanity A Little Space’ and ‘Refugee Blues CO-3. Critically appreciate the above poems CO-4. Contextualizing the theme of the poems with the current scenario
<b>Unit IV - Writing Skills</b> 1. Paragraph Writing 2. Application and C.V. Writing 3. Phrasal Verbs	CO-1. To learn and understand the different kinds of articles and their use in written English CO-2. To Learn and understand the steps to write Curriculum Vitae CO-3.To Learn to write Curriculum Vitae Co-4.To learn different phrasal verbs and its application

### **BCA – Compulsory English**

#### **Programme Specific Outcomes:**

- PSO-1. Able to learn the key concepts in English Language
- PSO-2. Gain the knowledge of grammar rules and composition
- PSO-3. Critically analyze the texts prescribed for the study
- PSO-4. Critical appreciation of the poems prescribed for the study

- PSO-5. Able to learn how to make pronunciation of particular word in English
- PSO-6. Able to communicate with anybody with confidence in simple and correct English
- PSO-7. Participate in the group discussions, seminars and Debates held in the classroom on any particular topic
- PSO-8. All the skills in English Language

#### **Course Outcomes:**

<b>BCA.I Semester I Compulsory English</b> <b>Unit I - Prose</b> 1. My Struggle for an Education - Booker T. Washington 2. Florence Nightingale - Lytton Strachey  <b>Unit II - Prose</b> 3. The Birth of Khadi - Mahatma Gandhi 4. Go, Kiss the World! - SubrotoBagchi	CO-1. Learn and understand the brief biographical information and literary contribution of Booker T. Washington, Lytton Strachey, Mahatma Gandhi, Subroto Bagchi. CO-2. Learn and understand the fact that with tenacity and ambition one can achieve what one wants in life CO-3. Learn and understand insight into the life of Florence Nightingale. CO-4.learn that success is about the vision and ability to rise above pain. CO-5. Contextualizing the lessons with the
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	contemporary social situations
<b>Unit III - Poetry</b> 1. Ulysses - Alfred Tennyson 2. Yussouf - James Russell Lowell 3. If - Rudyard Kipling	CO-1. To learn and understand the biographical information and the literary contribution of Alfred Tennyson, James Russell Lowell. CO-2. To learn and understand the central idea of the poems 'Ulysses', 'Yussouf' and 'If'. CO-3. Critically appreciate the above poems CO-4. Contextualizing the theme of the poems with the current scenario
<b>Unit IV - Comprehension &amp; Grammar</b> 1. Comprehension of Unseen Passage 2. Prepositions 3. Subject-verb agreement 4. Summarizing	CO-1. To learn and understand the different kinds of articles and their use in written English CO-2. To learn and understand different types of prepositions and their usage in English language CO-3. To learn and understand Subject-verb agreement CO-4. To solve the exercises given on prepositions, Subject-verb agreement
<b>BCA. I Semester II Compulsory English</b> <b>Unit I - Prose</b> 1. Grassroots Innovation and Social Enterprise: Changing Lives 2. The Two Gentlemen of Verona  <b>Unit II - Prose</b> 3. The Verger 4. Synthesis of Science and Spirituality Unit III - Poetry	CO-1. Learn how grassroots innovations can bring a big change in lives of common people. CO-2. Learn hard work is the key to success and nothing in the world is impossible. CO-3. Learn from verger to fix your weakness only if they prevent you from being successful. CO-4. Learn that for ascent of humanity, we require this synthesis of science and spirituality.
<b>Unit III - Poetry</b> 1. Richard Cory –Edwin Arlington Robinson 2. Allow Sanity A Little Space-Sunil kumarNavin 3. Refugee Blues-W.H.Auden	CO-1. To learn and understand the biographical information and the literary contribution of Edwin Arlington Robinson, Sunil kumarNavin, W.H.Auden CO-2. To learn and understand the central idea of the poems 'Richard Cory', 'Allow Sanity A Little Space' and 'Refugee Blues' CO-3. Critically appreciate the above poems CO-4. Contextualizing the theme of the poems with the current scenario
<b>Unit IV - Writing Skills</b> 1. Paragraph Writing 2. Application and C.V. Writing 3. Phrasal Verbs	CO-1. To learn and understand the different kinds of articles and their use in written English CO-2. To Learn and understand the steps to write Curriculum Vitae CO-3. To Learn to write Curriculum Vitae Co-4. To learn different phrasal verbs and its application

### Programme Outcome B.A. - Compulsory Marathi

Department of Marathi	After successfully completion of three year programme in Compulsory Marathi a student should be able to know:
Programme Outcome	<p>PO.1: 'Essential Marathi' has many advantages because education in through Marathi medium so they can learn it easily and since it is their mother tongue, they learn happily</p> <p>PO.2: Marathi language literature has a great influence on their social mind. languages are an effective medium to express feelings</p> <p>PO.3: language is a great using shaping society through literature. Every type of literature falls under the category of essential Marathi</p> <p>PO.4: Marathi language is very important for getting employment, if the language of the student is perfect, he can work in any field.</p> <p>PO.5: There are many types of language but students want to use standard Marathi language if they want to use it in practice</p>
Programme Specific Outcome	<p>PS.1: In today's modern times any language has a unique significance. Even on the we can see that Marathi language is being used fluently</p> <p>PS.2: Today you can see many Marathi language website started many publishing houses have created many websites for publishing their literature</p> <p>PS.3: You can see Marathi language in daily, newspapers, languages computer, radio, television, Etc.</p> <p>PS.4: letter from RJ statement office on many channels. Marathi language is used fluently for administrative transactions, correspondence and statements.</p> <p>PS.5: Marathi language is easy spoken in daily life but while writing on making statements the language in is changing, this is noticed by the students while learning the language</p> <p>PS.6: Students understand that they have to use standard language instead of everyday dialect While submitting report, while printing circulars, while publishing advertisement.</p>

### Course Outcome of B.A. Compulsory Marathi

Course Sahitya Rang 1	Outcome: After completion of this course students should be able to:
Semester I Unit I- Prose Prescribed Lessons Pakhala Balak Pangurvane- Maimbhat Shikshan- Jyotirao Fule Tarunanno : Nirbhay bana , Shur bana – Swami Vivekanand	<p>CO-1. The first form of Marathi language .Marathi first protagonist of the 9<sup>th</sup> century</p> <p>CO-2. Jotirao's revolutionary thoughts about progress of farmers.</p> <p>CO-3. Swami Vivekananda's inspiring thoughts for youth</p> <p>CO-4 . Rashtrasant Tukadoji Maharaj's</p>

Navvarshachya Udayachalavar Udyogache Dwajaronpan- Rastrasant Tukdoji Maharaj Konkarachi Katha- Arvind Gokhale	thoughts on social change. CO-5. Character of Shivram who was ran away from army.
Unit II- Poetry May marathi- Mukundraj Dnyanesharache Abhang – Sant Dnyaneshwar Davache themb- Keshavsut Bhangu de kathinya maze-Ba. Si. Mardhekar Char Shabd- Narayan Surve	CO-1. Poet Mukundaraj has sung the sweetness of Marathi. CO-2. Abhang based on Madhurabhakti and Virhini CO-3 The curiosity of the little boy about the dew drops that fell in the morning CO-4. In this poem, thoughts are presented that one should try to destroy the evil thoughts and ego in the mind. CO-5. In this poem, Narayan Surve has explained the importance of words.
Unit III- Vhyavarik Marathi Vhyavaharik Marathi: Swarup ani bhumika Bhashik swawad vhyavarachi mulatatve	CO-1. Knows about importance of “Vyavharik Marathi” CO-2. Describe basics of “Vyavharik Marathi”
Course Sahitya Rang1	Outcome: After completion of the course students should be able to:
Sem II- Theory:80 Marks Internal: 20 Marks Unit I: Prose Bharatiy Lokshahiche Bhavitavya kay- Dr. B.R. Ambedkar Gagdebabani Shala Dili- Sima Sakhare Ajatshatru Atalji- Sharad Pawar Krushvivar- Jayant Narlikar Vivekvad- Narendra Dabholkar	CO-1. Dr. Babasaheb Ambedkar's views on democracy and inequality CO-2. Impressed by Gadge Baba's kirtan, the author's struggle for schooling is mentioned. CO-3. Sharad Pawar has described his friendly relationship with Atalji.. CO-4. Jayant Narlikar has presented the idea of geographical phenomenon in very simple language in this lesson. CO-5. Narendra Dabholkar, the founder of ‘Andhashraddha Nirmulan Samiti’ has put forward six views on discrimination
Unit II: Poetry: Mrunmayi- Indira Sant Ushakal hota hota- Suresh Bhat Punha Ekada- Yashawant Manohar Mendhar- Viththal Wagh Aai: maru nakos Garbhat- Ushakiran Atram	CO-1. Indira Sant has described the relationship between soil and human life in poetry. CO-2. In this poem, the expectations of the people after independence and the breach of expectations are presented. CO-3. In this poem, Manohar asks us to re-evaluate the social situation. CO-4. The poet describes the state of mind of both the candidate and the voter. CO-5. The female foetus in the mother's womb pleaded not to kill her.
Unit III- Vyavaharik Marathi Pratral Lekhan- Pratrache prakar aani lekhan Saransh Lekhan- Saransh lekhanache ajchya ahunik jeevnaat mahatva	CO-1. Knows about how to write letter. CO-2. Importance of “Saransh Lekan” in this modern era.
Course- Sahitya Sanwad 2	Outcome:

Sem III: Theory: 80 Marks Internal: 20 Marks	After completion of the course students should be able to:
Unit I: Prose Rumbhneyacha Drishtant- KeshiRaaj Bass Stree-Purush Tulna- Tarabai Shinde. Mi Vakta Kasa Jhalo- P.K Atre Vitevarache Parbramh- Mahadev Joshi Shikshak Haach Rashtacha Bhagyavidhata- Mahadevshashtri joshi	CO-1. The first form of Marathi. The importance of Marathi and visions in the 9 <sup>th</sup> century CO-2. The 18 <sup>th</sup> century revolutionarised women empowerment. CO-3. Famous journalist and speaker of Maharashtra. His incarnation as a speaker. CO-4. Spiritual information of Pandharpur pilgrims site in Maharashtra.
Unit II- Poetry Abhangwani- Sant Namdeo Kekawati-Morapant Bhala Janm ha tula pavla-Ram Joshi Fadkate tujhe tethech Nishan- Yashwant Virani-Anil	CO-1. Abhang of Nemadeo CO-2. The intense flow of 18 <sup>th</sup> century poets. Saint Pant- The flow of pandit poetry in it. CO-3. Shahari Vagmay-Human Duty CO-4. Description of the work of labourers. CO-5. Describes depression in the poet's mind.
Unit III: Vyavaharik Marathi Etivritta lekhan. Prasar Madhyamasathi Vrittalekhan	CO-1. Describe how to write "etivritta" CO-2. The role of media for social awareness.
Course: Sahitya Sanwad 2 Sem IV: Theory: 80 Marks Internal: 20 Marks	Outcome: After completion of the course students should be able to:
Unit I: Prose Mayavi Magh- Durga Bhagawat Tapasvi- P. B. Bhav Navin Pahat Ugavat Ahe- Nirmal Kumar Phadkule Taplela Tara- Jayant Narlikar Asprushy samajachya krantiche tufan- B. H. Kalyankar	CO-1. Description of nature with many fine details of the "Magh" month. CO-2. Description of his accomplishments through the story of philanthropist. CO-3. The idea is to defeat evil tendencies and create a light of happiness in life. CO-4. Science fiction. CO-5. Description of Dr. Babasaheb Ambedkar's work.
Unit II: Poetry Ek Navya Sangharshyat- Narayan Surve Smaran- Suresh Bhat Ya Nabhane- N.D. Mahanor Dole- Bhau Panchbhai Nyayasathi- Kusum Alam	CO-1. Revolutionary thoughts of poet. CO-2. Poet said that death is the ultimate truth. CO-3. All the attitudes of the poet towards the nature of the field the realization of being identification. CO-4. The pitiful tone of grief shared by deprived at various stages of human life. CO-5. A sarcastic commentary on the judiciary.

Unit III: Vyavharic Marathi Bhashantar Vidya Mulakhat lekhan	CO-1. Importance of “translation” in this modern era. CO-2. How to conduct interview and how to compile it in proper manner .
Course: Sahitya Samvad 3 Sem V: Theory: 80 Marks Internal: 20 Marks	Outcome After completion of the course students should be able to:
Unit I: Prose Vivaho Swikaru- Mhain Bhat Sudharak Kadhnyacha Hetu- G.G. Agarkar Amhi Yug Banvinare Ahot- Vinoba Bhave Maysabha- Eravati Karve Kidleli Manas- Gangadhar Gadgil	CO-1. The “Lila” compiled by Mhain bhat has clarified the nature of “Lila” in Govindprabhu’s life. CO-2. During the British rule the newspaper taught the people the lessons of freedom’ This was the purpose of extracting the newspaper. CO3. Vinoba Bhave has challenged the younger generation in the lesson. CO-4. The Maysabha in the mahabharta is a separate volume. This lesson describes the entire pear meeting. CO-5. The mentality of the working Elases living in the lower middle class is shown in this lesson.
Unit II- Poetry Abhangwani- Sant Tukaram Pandharivarnan- Shahir Prabhakar Chafa- Kavi Bee Kala jya laglya jiva- B. R. Tambe Samadhan- N. G. Deshpande	CO-1. The abhanga of saint Tukarama gives a social description of the Nature of life. CO-2. It is all about spiritual form of “Lawani” CO-3- This poem is beautiful description of mental status of lover. CO-4. The situation created on the purpose of life is a picture of How man finds Himself in it. CO-5. A former’s satisfaction in his life.
Unit III: Vyavharik Marathi Samvadachya prerana ani swarup. Vidyarthiyana sampadan prakriya kay ya baddal che shikshan.	CO-1. How to do effective communication. CO-2. Teaching procedure to do proper “edition”
Course: Sahitya Samvad 3 Sem VI: Theory: 80 Marks Internal: 20 Marks	Outcome After completion of the course students should be able to:



Unit I: Prose Chakra- Vidhyadhar Pundlik Pakshigan- Maroti Chittampalli Anawar sha Fakir- Dr. Madhukar Wakode Andhshradha Nirmulan Chalwalichi Vatchal- Naredra Dabholkar Apulachi Vad apanashi- Chandrakant Wankhede	CO-1. After the kurava - pandava war in kurukshetra the life between Hastiinapur and the depression in everyone's mind seems to be evident from this one act play. CO-2. This lesson Explains the description of different birds in Nature and the diversity in Nature. CO-3. The character of Annavarshw fakir and the authentic rural environment show the distress of this person. CO-4. In this lesson we see the scientific approach eradicating superstitious from society. CO-5. It is a great gift for a woman candidate to contest and get elected in the Gram Panchayat elections. The Entire journey of a woman is shown in this lesson.
Unit II: Poetry Hi Nili Pandhari- Indira Sant Don Jyoti- Sharadchandra Muktibodh Paus- Grace Prem- Namdev Dhasal Tahara- Dasharath Madavi	CO-1. The beautiful description of the autumn afternoon time has come in this lesson. CO-2. In this poem war of emotional thoughts of a woman who is suffering from grief. CO-3. The idea that falling rain reminds you of someone in your mind is presented in this poem. CO-4. The language of Namdeo's poetry is rebellion. Although love is a poem language is a bit of a dirty. CO-5. The demand for an Ideal leader to lead the tribal community after Birsa munda was Evident in this poem.
Unit III: Vyavharic Marathi Granth Parikshan Internet ani Marathi Bhasheche Sahitya.	CO-1. Describe methods to do "Granth Parikshan" CO-2. Information about internet and Marathi literature on internet.

### Course Outcome of B.A. Marathi literature

#### Subject: Marathi Literature Program Outcome:

Po.1. Learn the different aspects of literature

Po.2. Learn and understand various literary movements in Marathi Literature Po.3. Learn and understand various periods of Marathi literature

Po.4. Learn and understand various literary terms.

Po.5. View the type of literature form in Marathi literature.

**Program Specific Outcome:**

Included and develop literary taste

Understand the various types of prose, poetry, drama,, novels, stories, biography.

Summarize interpret and make critical remarks.

Learn the Literary Contribution of Various writers.

Learn the impact of Socio, Politics, religious, situation on literature of the era.

Develop skills of literary writing.

Course Marathi Literature	Outcome: After completion of this course students should be able to:
Semester I Mazi Janmthep- Autobiography by V. D. Sawarkar Pratibha Sadhan- Na. Si. Phadake Vishayache Auchity Latit Vangmayache Swarup v kary	CO-1. “Mazi Janmthep” is V. D. Savarkar's autobiography. We get to read his entire life story. CO-2. Relevance of the chapter prescribed. CO-3. Form and functions of fiction in Marathi literature
Course Marathi Literature	Outcome: After completion of the course students should be able to:
Semester II “Ashunchi Zali phule” By Vasant Kanetkar Pratibha Sadhan- Na. Si. Phadake Samar prasang Vyakti darshan	CO-1. Theatrical and classical information in the form of this literary form of drama. CO-2. The subject of this play is corruption in the education system. The tragedy of a principal CO-3. War CO-4. Characterization
Course- Marathi Literature	Outcome: After completion of the course students should be able to:
Semester III Sant Tukaramache Nivadak 100 Abhang “Kavyashastra Parichay” – Shivshankar Upase Poetic traits Poetic purpose	CO-1. The creation of Abhang by Saint Tukaram and the reasons behind it are explained in this Abhang. He has expressed his views on devotion, charity, philanthropy, social reform and superstition. CO-2. Kavyalakshana - Interpretation, nature of fine arts, analysis and explanation of this type of poetry in Sanskrit literature . CO-3. Poetic Purpose- Analysis of Sanskrit Literary Poetic Purpose, Importance of All Poetic Purpose.
Course: Marathi Literature	Outcome: After completion of the course students should be able to:
Semester IV ‘Rasyatra’ Kavivarya Kusumagraj yancha nivadak kavitancha sangrah	CO-1. Kusumagraj's collection of poems 'Rasayatra' was a study of social, political, love-related, naturalistic, intense nationalist,

<p>“Kavyashastra Parichay” – Shivshankar Upase</p> <p>Poetic reason</p> <p>Word power and meaning</p>	<p>iconic poems.</p> <p>CO-2. What is 'poetry'? Explained to the students what is the cause of the creation of poetry.</p> <p>CO-3. What are the powers of words? What are Abhidha, Lakshana, Vyanjana? What are the essential aspects of the symptom.</p> <p>Analysis of what consonant and satire are.</p>
Course- Marathi Literature	<p>Outcome</p> <p>After completion of the course students should be able to:</p>
<p>Semester V</p> <p>Lilacharitra – Ekank</p> <p>Madan Kulkarni</p> <p>Dalit Sahitya- Vedana ani Vidroh</p> <p>By Bhalchandra Phadake</p> <p>What is Dalit literature?</p> <p>The prototype of Dalit literature pain - Sant Chokha Mela</p> <p>The prototype of the Dalit literary revolt – Dr. Babasaheb Ambedkar</p> <p>The nature of Dalit literature.</p> <p>Bhasha vidhyan parichay</p> <p>The nature and uses of language</p> <p>Phonology</p>	<p>CO-1. What is Dalit literature? Definition and importance of Dalit literature.</p> <p>CO-2. Information about the character of Chokha Mela and the social inequality expressed in the abhangas he wrote.</p> <p>CO3. Personality of Dr. Babasaheb Ambedkar. Information about the concept of rebellion, insurrection and their epoch-making work.</p> <p>CO-4. Nature of Dalit Literature Information about the revolution and changed history of Marathi literature through stories, poems, novels, autobiographies</p> <p>CO-5. What is the nature of language? What is linguistic communication? Analysis of the areas of human language practice and the use of language.</p> <p>CO-6. What is Swan? Concept and meaning. Analysis of phonetic science and sound thought concept and meaning.</p>
Course- Marathi Literature	<p>Outcome</p> <p>After completion of the course students should be able to:</p>
<p>Semester VI</p> <p>“Garudzep” - Atmcharitra</p> <p>By Bharat Andhale</p> <p>Prachin Marathi Vangmayacha Itihas</p> <p>By L.R. Nasirabadkar</p> <p>Gyanadeve Rachila Paaya</p> <p>Santmelyachi Abhangwani</p> <p>Shahiri Kavya</p> <p>Bakhar Gadya</p> <p>Bhasha vidnyan Parichay</p> <p>Rupim and Padavichar</p> <p>Standard language and dialect</p>	<p>CO-1. In this autobiography, Bharat Andhale wrote the journey of becoming an IAS officer and getting an education is depicted.</p> <p>CO-2. Information about Saint Dhyaneswar and his work.</p> <p>CO-3. All the saints born after Saint Dnyaneshwara and their Abhang literature.</p> <p>CO-4. Analysis of what shahiri poetry is and its importance and shahiri composition.</p> <p>CO-5. The nature and importance of Bakhar prose. Analysis of this as historical prose.</p> <p>CO-6. What is Rupim? The difference between a rupeeka and a word. The difference between rupeeka, rupeem and rupeekantar. What is a pad? And analysis of</p>

	types of pad. CO-7. What is language, distinction? What is standard language? Standard language and dialect, local differences, reasons for formation of dialects, dialect concepts and formats. Analysis of standard language formats and features
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### **Programme Outcome B.COM - Marathi**

Department of Marathi	After successfully completion of three year programme in Compulsory Marathi a student should be able to know:
Programme Outcome	<p>PO.1: 'Essential Marathi' has many advantages because education in through Marathi medium so they can learn it easily and since it is their mother tongue, they learn happily</p> <p>PO.2: Marathi language literature has a great influence on their social mind. languages are an effective medium to express feelings</p> <p>PO.3: language is a great using shaping society through literature. Every type of literature falls under the category of essential Marathi</p> <p>PO.4: Marathi language is very important for getting employment, if the language of the student is perfect, he can work in any field.</p> <p>PO.5: There are many types of language but students want to use standard Marathi language if they want to use it in practice</p>
Programme Specific Outcome	<p>PS.1: In today's modern times any language has a unique significance. Even on the we can see that Marathi language is being used fluently</p> <p>PS.2: Today you can see many Marathi language website started many publishing houses have created many websites for publishing their literature</p> <p>PS.3: You can see Marathi language in daily, newspapers, languages computer, radio, television, Etc.</p> <p>PS.4: letter from RJ statement office on many channels. Marathi language is used fluently for administrative transactions, correspondence and statements.</p> <p>PS.5: Marathi language is easy spoken in daily life but while writing on making statements the language in is changing, this is noticed by the students while learning the language</p> <p>PS.6: Students understand that they have to use standard language instead of everyday dialect While submitting report, while printing circulars, while publishing advertisement.</p>

### **B.COM. Compulsory Marathi**

## Course Outcome

Course ShabdSadhana I	Outcome: After completion of this course students should be able to:
Semester I Unit I- Prose Prescribed Lessons Bhartiy Loksahiche Bhavitavya Kay? - Dr. B. R. Ambedkar Kali Aai- Vyankatesh Malgulkar Sant Tukaramache Abhang- Nirmal Kumar Fadkule Mazi Shala- Prakash Kharat Samteche Varkari: Sant Gadge Baba Ani Rashtrasant Tukdoji Maharaj- Ashok Rana Lokkalyankari Raja: Chhatrapati Shahu Maharaj- Sharyu Taywade	CO-1 Dr. Babasaheb Ambedkar's views on democracy and inequality CO-2 Venkatesh Madgulkar has drawn the character of Appa. CO-3. This prose is written to describe Saint Tukaram's whole life struggle. CO-4 . Prakash Kharat wrote about his childhood school and rural life. CO-5. Describes social work of Sant Gadge baba and Rashtrasant Tukdoji Maharaj. CO-6.- Describes work of Chhatrapati Shahu Maharaj in different fields of life.
Unit II- Poetry Dnyanesharache Abhang – Sant Dnyaneshwar Vansudha- Waman Pandit Nava Shipai- Keshavsut Mendhar- Viththal Wagh Pori- Anuradha Patil Gao- Hemantkumar Kambale	CO-1. Abhang based on Madhurabhakti and Virhini. CO-2. Describe childhood of Lord ShriKrushna CO-3 An appeal to young people to change the world. CO-4. The poet describes the state of mind of both the candidate and the voter. CO-5. About girls's life CO-6. We want to inculcate new thinking in the village.
Unit III- Vhyavarik Marathi Mhani Mulakhat Lekhan	CO-1. How to use proverb in your daily life CO-2. How to write interviews for different media.
Course ShabdSadhana I	Outcome: After completion of the course students should be able to:
Sem II- Theory:80 Marks Internal: 20 Marks Unit I: Prose Aamachi Ek Drushthkhod: Alas- Gopal Ganesh Agarkar Shil Banwanare Shikshan- Swami Vivekanand Manusyacha Dev ani Vishwacha Dev- V. D. Sawarkar Dr Panjabrao Deshmukh- V.B. Kolte Nat- V.S. Jog Rupi: Mazi Saksh- Mohan Naik	CO-1. Among the people.It is beneficial to have a passion for business and to have a good business environment.It will not be easy. This is possible without laziness. CO-2. Man's morals and character building are important principles of education CO-3. The longitudinal slope of the organism from the lower level to the highest level is a widely accepted but latent assumption. According to this, human beings have been given a place of worship along with the universe. CO-4. Review of Dr .Punjabrao Deshmukh's work CO-5. The friendship between the two men with Mira and the complete portrayal of

	<p>Mira.</p> <p>CO-6. The author tells the story of a marriage that did not go along with the “Rupi” due to financial inequality.</p>
<p>Unit II: Poetry:</p> <p>Eknathanchi Bharude- Sant Eknath</p> <p>Dankat Dand Snayu Jaise- B. S. Mardhekar</p> <p>Maay- Waman Nimbalkar</p> <p>Putale- Wasant Abhaji Dahake</p> <p>Udghosh- Prasanjeet Gaykawad</p> <p>Jagar- Lakhansingh Katare</p>	<p>CO-1. Social enlightenment done by Saint Eknath through Bharudas.</p> <p>CO-2. Mardhekar's appeal to the youth to change the society.</p> <p>CO-3. A poem written by Vaman Nibalkar in memory of his mother.</p> <p>CO-4. The poet describes the inflammatory state of the statues and the statues that are divided into ethnic groups.</p> <p>CO-5. Proclamation of social revolution.</p> <p>CO-6. Awareness work for the people of Banjara community.</p>
<p>Unit III- Vyavaharik Marathi</p> <p>Vakprachar</p> <p>Jahirat Lekhan – Ajay Deshpande</p>	<p>CO-1. Use of phrases.</p> <p>CO-2. How to write an ad for different media and its importance.</p>
<b>B.Com. – II Sem.III</b>	<p>CO-1. Marathi is the mother tongue of every student but by learning of the subject “Compulsory Marathi” can help to improve Marathi as a language for better communication and can be used in daily life effectively.</p> <p>CO-2. Students can develop reading habits in literature.</p> <p>CO-3. It helps to improve skills like pronunciation, grammar and spelling.</p> <p>CO-4. Learning Marathi can encourage students to know about Marathi literature, newbooks, authors and current affairs in Marathi language</p>
<b>B. Com. II, Semester IV</b>	<p>CO-1. Marathi is the mother tongue of every student but by learning of the subject “Compulsory Marathi” can help to improve Marathi as a language for better communication and can be used in daily life effectively.</p> <p>CO-2. Students can develop reading habits in literature.</p> <p>CO-3. It helps to improve skills like pronunciation, grammar and spelling.</p> <p>CO-4. Learning Marathi can encourage students to know about Marathi literature, newbooks, authors and current affairs in Marathi language</p>

**B.Sc./BCA – Second Language - Marathi**

<b>Department Of Marathi Subject-Marathi</b>	<b>After Successful of Three Year Program in MARATHI Student should be able to</b>
<b>Program Outcome</b>	‘Essential Marathi’ has many advantages because education in through Marathi medium so they can learn it easily and since it is their mother tongue, they learn happily.
	Marathi language literature has a great influence on their social mind. Languages are an effective medium to express feelings.
	Language is great using shaping society through literature. Every type of literature falls under the category of essential Marathi.
	Marathi language is very important for getting employment, if the language of the student is perfect, he can work in any field.
	There are many types of language but students want to use standard Marathi language if they want to use it in practice.
<b>Program Specific Outcome</b>	In today’s modern times any language has a unique significance. Every on the we can see that Marathi language is being used fluently.
	Today you can see many Marathi language website started many publishing houses have created many websites for publishing their literature.
	You can see Marathi language in daily, newspapers, languages computer, radio, television, Etc.
	Letter from RJ statement office on many channels. Marathi language is used fluently for administrative transactions, correspondence and statements.
	Marathi language is easy spoken in daily life but while writing on making statements the language in is changing, this is noticed by the students while learning the language.
	Students understand that they have to use standard language instead of everyday dialect While submitting report, while printing circulars, while publishing advertisement.
<b>Syllabus Outcomes Sahitya- Setu Part-1</b>	Umai Namskare Aangutha Lavane. Respect for women is expressed through the personality of Shree. Chakardhar Swami.
	Sarvajanik Satyadharma- Mahatma Jotyirao Fule. Elements of the same family can be followers of different religious because all religions are children of public truth.
	Wachan- Gopal Ganesh Agarkar. Importance of reading and knowledge gathering due of reading.
	Bhartiya Sanvidhanachi Vidnya Nivad- Yashavant Manohar. The standard of living values enshrined in the Indian constitution are universal as well as constructive and end lightening.



	Hi Shree Chi ichha-Shrinivas Thanedar. In his presidential address at the 16 <sup>th</sup> World Marathi conference.
	<b>POETRY</b>
	Santvani- Sant Dnyaneshwar, Sant Namdev, Sant Chokhamela, Sant Tukaram. The importance of Nirmal Jeevan Marg and Abhang Wangmaya a told by Sant.
	Ya Bhartat Bandhubhav Nitya Asu De- Rashtrasant Tukdoji Maharaj. Rashtrasant who has made the whole society work awakens brotherhood has asked for it through poetry.
	Zapurza-Keshavsut. Zapurza is a poem describing the state of mind of the Artist
	Majhya Mana Ban Dagad- V.D.Karandikar. The inflammatory deprivation and misery of the working class is portrayed through man, the world, the mind, and society.
	Paus-Gras. In this poem, the poet has expressed the wear of mixed feelings of sad mind.
	3. Practical Marathi  1. Writing for the Media What is Media? The work of the Media
	2. Spelling.
	<b>SEM2- PROSE-TEXT</b>
	Akherche Kirtan-Sant Gadge Baba. This kirtan of Gadge Baba, which proved the true meaning of human life, took place on November 8, 1956. Which was the last.
	Ek Rastra Ek Janta-V.B. Kolte. Nation is not only the integrity of the land in terms of ownership but also the integrity of culture goal thought and mind.
	ApangShahiche Pantrapradhan-Madhukar Keche. The personality of Baba Amte A social worker who created a paradise for lepers while he was in the throes of chronic illness is portrayed.
	Bharti-Vasant Varadpande. This story describes the tide that came to the ocean of life when a person who is aware of personal happiness and sorrow starts thinking about the happiness and sorrow of the country.
	Vaidnyunik Drushtikon Mhanje Kay?-Jayant Narlikar. The idea that the scientific point of view is based on the clarity of any statement and its thorough examination.
	<b>POETRY</b>
	Bhangu De Kathinya Majhe-B.C. Mardhekar. As the only centre of human upliftment the poem humbly begs before God.
	Ushakal Hota Hota- Suresh Bhat. The poet has given a very a pet description of how every one got disillusioned in just a few years, when they thought that the fate of

	Indians would be bright after independence.
	Khaprache Dive-Vitthal Vagh. The miserable condition of the farmers who have become accustomed to the agricultural culture is dsscrined.
	Tu Madarbord Majhya Sangnakacha-Arun Kale. The effect of Dr. Babasaheb Ambedkar's social movement in every field in
	Aapaplyala Navti-Anuradha Patil. The poetess has expressed a very sensitive and emotional mood through personal grief.
	<b>Varik Marathi</b> adprakriya- Dr.Nadkumar More.
	Mhani V Tyancha Artha- Proverb uses in duly life
	<b>Vyavharik Marathi- Practical Marathi Translation process</b>
	The importance of translation process in today's modern age.
	What is translation process?
	Proverbs use in daily life.

## Second Language - Supplementary English (Optional)

Course	Course Outcome
<b>B. Sc. I Semester I Supplementary English</b> <b>Unit I: Short Stories from the prescribed Text:</b> 1. The Postmaster - Rabindranath Tagore 2. After Twenty Years - O. Henry 3. A Happy Man - Anton Chekov  <b>Unit II: The following Short Stories from the prescribed Text:</b> 4. The Three Questions - Leo Tolstoy 5. The Story of an Hour - Kate Chopin 6. Mr. Know-All - W.S.Maugham	CO-1. Learn and understand the brief biographical information and the literary contribution of Rabindranath Tagore, O.Henry and Anton Chekov C02-Learn and understand the theme and central ideas of stories. CO3 – To know that storytelling is a strong weapon to convince someone. CO4 – To make the students understand how emotional elements can be arisen through narration.

<p><b>Unit III: Vocabulary Expansion</b> (Some Common Foreign Words Used in English; One Word for a Group of Words; Idioms and Phrases)</p> <p><b>Unit IV:</b> 1. Essay Writing (Topics - Science and Technology; Environment Issues, Social Issues; Personal, Reflective Essay) 2. Email (Official)</p>	<p>CO-1. Writing skills will be improved by making the students learn different words and their use CO-2. Learn and understand the types of advertisements and the ways to write them CO-3. Learn and understand the different types of essays and the ways to write CO-4. Enhancement of vocabulary will continue to be the focus. CO-5. Learn to write the Email</p>
<p><b>B. Sc. I Semester II Supplementary English Unit I : The following Short Stories from the prescribed Text:</b> 1. The Open Window - Hector Hugh Munro 2. The Taxi Driver - K.S.Duggal 3. A Cup of Tea - Katherine Mansfield</p> <p><b>Unit II : The following Short Stories from the prescribed Text:</b> 4. The Devil - Guy de Maupassant 5. The Model Millionaire - Oscar Wilde 6. Men Who have Shaved Me - Stephen Leacock</p>	<p>CO-1. Learn and understand the brief biographical information and the literary contribution of Hector Hugh Munro K.S.Duggal, Katherine Mansfield CO-2. Learn and understand the theme and central ideas of stories. CO-3. To know that storytelling is a strong weapon to convince someone. CO-4. To make the students understand how emotional elements can be arisen through narration.</p>
<p><b>Unit III :</b> 1. Writing Advertisements (For sale of vehicle(s) /property, For Rent) 2. Letter Writing (Letter of Complaint to an official; Letter to the editor of a newspaper highlighting an issue in your locality or town/city; Application to the Principal of the College)</p> <p><b>Unit IV:</b> 1. Story writing based on the given outline. 2. Reporting an Event</p>	<p>CO-1. Writing skills will be improved by making the students learn different words and their use. CO-2. Use of body language in communication will be focused. CO-3. Enhancement of vocabulary will continue to be the focus. Co-4. Learn and understand the types of advertisements and the ways to write them</p>
<p><b>BCA. I Semester I Supplementary English Unit I: Short Stories from the prescribed Text:</b> 1. The Postmaster - Rabindranath Tagore 2. After Twenty Years - O. Henry 3. A Happy Man - Anton Chekov</p> <p><b>Unit II: The following Short Stories from the prescribed Text:</b> 4. The Three Questions - Leo Tolstoy 5. The Story of an Hour - Kate Chopin 6. Mr. Know-All - W.S.Maugham</p>	<p>CO-1. Learn and understand the brief biographical information and the literary contribution of Rabindranath Tagore, O.Henry and Anton Chekov CO2-Learn and understand the theme and central ideas of stories. CO3 – To know that storytelling is a strong weapon to convince someone. CO4 – To make the students understand how emotional elements can be arisen through narration.</p>

<p><b>Unit III: Vocabulary Expansion</b> (Some Common Foreign Words Used in English; One Word for a Group of Words; Idioms and Phrases)</p> <p><b>Unit IV:</b> 1. Essay Writing (Topics - Science and Technology; Environment Issues, Social Issues; Personal, Reflective Essay) 2. Email (Official)</p>	<p>CO-1. Writing skills will be improved by making the students learn different words and their use CO-2. Learn and understand the types of advertisements and the ways to write them CO-3. Learn and understand the different types of essays and the ways to write CO-4. Enhancement of vocabulary will continue to be the focus. CO-5. Learn to write the Email</p>
<p><b>BCA. I Semester II Supplementary English Unit I : The following Short Stories from the prescribed Text:</b> 1. The Open Window - Hector Hugh Munro 2. The Taxi Driver - K.S.Duggal 3. A Cup of Tea - Katherine Mansfield</p> <p><b>Unit II : The following Short Stories from the prescribed Text:</b> 4. The Devil - Guy de Maupassant 5. The Model Millionaire - Oscar Wilde 6. Men Who have Shaved Me - Stephen Leacock</p>	<p>CO-1. Learn and understand the brief biographical information and the literary contribution of Hector Hugh Munro K.S.Duggal, Katherine Mansfield CO-2. Learn and understand the theme and central ideas of stories. CO-3. To know that storytelling is a strong weapon to convince someone. CO-4. To make the students understand how emotional elements can be arisen through narration.</p>
<p><b>Unit III :</b> 1. Writing Advertisements (For sale of vehicle(s) /property, For Rent) 2. Letter Writing (Letter of Complaint to an official; Letter to the editor of a newspaper highlighting an issue in your locality or town/city; Application to the Principal of the College)</p> <p><b>Unit IV:</b> 1. Story writing based on the given outline. 2. Reporting an Event</p>	<p>CO-1. Writing skills will be improved by making the students learn different words and their use. CO-2. Use of body language in communication will be focused. CO-3. Enhancement of vocabulary will continue to be the focus. Co-4. Learn and understand the types of advertisements and the ways to write them</p>

BCCA- Part-I Semester – I English and Business Communication - I	<p>To develop language skills for business management.</p> <p>To improve reading, writing and speaking skills, as well as vocabulary development for various business situations.</p> <p>Effective communication is an essential part of life. This course helps to develop verbal and non- verbal communication ability.</p> <p>The course also helps to develop the skill of drafting various business correspondences like letters, memos, emails etc.</p>
BCCA- Part-I Semester – II English and Business Communication – II	<p>To develop language skills for business management.</p> <p>To improve reading, writing and speaking skills, as well as vocabulary development for various business situations.</p> <p>Effective communication is an essential part of life. This course helps to develop verbal and non- verbal communication ability.</p> <p>The course also helps to develop the skill of drafting various business correspondences like letters, memos, emails etc.</p>

## Hindi

### **Subject: Second language Hindi**

#### **Programme Outcome:**

PO-1: ‘**Second language Hindi**’ has many advantages because education in through Hindi medium so they can learn it easily and since it is our national language, students learn happily.

PO-2: Hindi literature has a great influence on their social mind. languages are an effective medium to express feelings.

PO-3: Hindi language is very important for getting employment in youth , if the student’s language is perfect, they can work successfully in any field.

PO-4: There are many types of language & With Hindi language students from all the states can communicate with easily.

#### **Programme Specific Outcome:**

PSO-1: Hindi language has a unique significance. Even we can see that Hindi language is being used fluently.

PSO-2: Today we can see many Hindi language website started, many publishing houses have created many websites for publishing their literature.

PSO-3: We can see Hindi language in daily newspapers, computer, radio, television, in Banks and all government sectors, school , colleges etc.

PSO-4: Hindi language is used fluently for administrative transactions, correspondence and statements.

PSO-5: Hindi language is easily spoken in daily life.

#### **Course Outcome:**

<b>Course (Manthan)</b>	<b>Course Outcome</b> After completion of this course students should be able to
<b>B. Sc. I, Semester I (Theory:60 Marks Internal: 15 Marks)</b>  <b>Unit I Gadya -Vibhag (Prose)</b>  1.Siv sir Malti mal (Vidyanivas Mishra) 2. Usne kaha tha (Chandrdhar Sharma Guleri) 3. Puraskar (Jaishankar Prasad) 4. Durmukh (Mahadevi Varma) 5.Bholaram ka jeev (Harishankar Parsai) 6. Lucky (Mamata Kaliya)	CO-1.Gain Knowledge about holy river Ganga & Lord Shiva. CO-2. Unconditional Love & promise. CO-3. Encourage Patriotism. CO-4. Leave cruelty, Live life in brotherly hood.  CO-5. Eradicate bribe process for proper functioning. CO-6.Belive in our karma inspite of luck.
<b>Unit II Padya- Vibhag( Poetry)</b>  1.Kabir ke dohe (Kbeerdas) 2.Bhooshanvaani (Bhooshan) 3.Manushayata (Maithilisharan Gupt) 4.Jantantra ka jan (Ramdhari Singh ‘Dinkar’) 5.Veeron ka kaisa ho vasant?(Subhdrakumari Chaouhan) 6. Jeendgi ki Seekh (Kalika)	CO- 1.Students learn Moral value for life. CO-2. □□□□□□ □□□□□□ □□□□□□ □□ □□□□□ □□□□□□. CO-3. □□□□ □□□ □□□□□□□□ □□ □□□□□□. CO-4.□□□□□□□□□□ □□□ □□□□ □□ □□□□□□□ □□□□□. CO-5. □□□ □□□ □□ □□□□□ □□ □□□ □□□□ □□□□□□ □□□□□□□□ □□ □□□□ □□□. CO-6.□□□□ □□□ □□□□□□□□□ □□□□□□□□□ □□□□ □□□□□, □□ □□□□ □□ □□□□□ □□□□ □□□□ □□□□□.
<b>Unit III - Vyavharik Hindi</b> Paribhashik Shabdavali SwaVrutta (Boi-Data) Sakshatkar ( Interview)	CO- 1. Translate Hindi to English & English to Hindi (Technical words). CO-2. Bio-Data, Resume (Self-reliant)writing. CO- 3. How to prepare for Interview. Things keep in mind.
<b>Unit IV - Anya pathy Samgri</b> Vilom Shabd ( Opposite Words) Anek Shbdon ke liye ek shabd Shabdon ka shuddhikaran Shrutisam Bhinnarthak shabd	CO- 1. Opposite words with meanings .  CO-2.One word for many words.  CO- 3.Word correction.  CO-4.Homonyms, Shrutisam Bhinnarthak shabd means the word which sound same but has different meanings.
<b>Course (Manthan)</b>	<b>Course Outcome</b> After completion of this course students should be able to

<p><b>B. Sc. I, Semester II (Theory:60 Marks Internal: 15 Marks)</b></p> <p><b>Unit I Gadya -Vibhag (Prose)</b>          Bade Bhai Sahab (Premchand)          Marana:ek kala, ek chans (Kanhaiya lal Mishra Prbhakar )          Reedh ki haddi ( Jagdish Chandra Mathur )          Daan ((Bhadant Annad Kaousalyayan)          Abhav ( Vishnu Prabhakar)          Hathi ke dant (Anant Gopal Shevde)</p>	<p>CO- 1. □□□□ □□□ □□□□ □□ □□□, □□□□□□ □□□ □□□□□ □□ □□□□□ □□□□ □□□ □□□□□□□□□□ □□□□. CO-2. □□□□ □□□□ □□□ □□□□□ □□□ □□□□ □□□□□ □□□□ □□ □□□ □□□ □□□□ . CO-3. □□□□□□-□□□□□ □□□□□□ □□ □□□□□, □□□□□□ □□□□□□ □□□ □□□□□□□□□□ □□ □□□□□. CO-4.□□□□ □□□ □□□ □□ □□□□□. CO-5. □□□□ □□□□□,□□□□□□ □□ □□□□ □□□ □□ □□□□□ □□ □□□, □□□□ □□□□ □□ □□□ □□□□ □□□□□. CO-6.□□□□□ □□□□ □□ □□□□ □□ □□□□ □□□□ □□□□□. □□□□ □□ □□□□ □□ □□□ □□□□, □□□□□ □□ □□□ □□ □□□□ □□ □□□.</p>
<p><b>Unit II Padya- Vibhag( Poetry)</b>          1.Rahim ke dohe (Rahim)          2. Tukdoji Maharaj ke pad (Rashtr sant Tukdoji Maharaj)          3. Pushp ki Abhilasha (Makhanlal Chaturvedi)          4.Karmveer ( Ayodhya Singh Upadhayay)          5. Akal aur uske Baad (Nagarjun)          6.Man Azad nhin hai (Gopal Das Saksena)</p>	<p>CO-1. Students learn Moral value for life.          CO-2. □□□□ □□□ □□□□□ □□□□□ □□ □□□□□ □□□□, CO-3. □□□□□□□□ □□ □□□□□ □□□□□ □□□□. CO-4. □□□□ □□□ □□□□□□□ □□ □□□□□. CO-5.□□□□□, □□□□ □□ □□□□□ □□□ □□□ □□ □□□□□□ □□□ □□□□ □□□□□. CO-6.□□□□□ □□□-□□□□, □□□□□ □□ □□□□□□ □□ □□□□□ □□□□□□□ □□ □□□□□ □□□□□□□.</p>
<p><b>Unit III - Vyavharik Hindi</b>          Kalpana Vistar          Prativedan (Report Writing)          Vigyapan          Anuvaad</p>	<p>CO-1.Importance of imagination.          CO-2.Report writing.          CO-3.Meaning &amp; Importance of Advertisement.          CO-4.Importance of Tanslation .</p>
<p><b>Unit IV - Anya pathy Samgri</b>          1.Deonagari Lipi          2. Raaj Bhasha          3.Sampark Bhasha          4. Rashtra Bhasha</p>	<p>CO-1. Deonagari Lipi.          CO-2. Raaj Bhasha means official language.          CO-3. Sampark Bhasha means contact language.          CO-4. Rashtra Bhasha means National language.          CO-5. Gain Knowledge about Hindi Grammar.</p>
<p><b>Course ( Manthan)</b></p>	<p><b>Course Outcome</b>          After completion of this course students should be able to</p>

<p><b>B.C.A. I, Semester I (Theory:60 Marks Internal: 15 Marks)</b></p> <p><b>Unit I Gadya -Vibhag (Prose)</b></p> <ol style="list-style-type: none"> <li>1.Siv sir Malti mal (Vidyanivas Mishra)</li> <li>2. Usne kaha tha (Chandrdhar Sharma Guleri)</li> <li>3. Puraskar (Jaishankar Prasad)</li> <li>4. Durmukh (Mahadevi Varma)</li> <li>5.Bholaram ka jeev (Harishankar Parsai)</li> <li>6. Lucky (Mamata Kaliya)</li> </ol>	<p>CO-1.Gain Knowledge about holy river Ganga &amp; Lord Shiva.</p> <p>CO-2. Unconditional Love &amp; promise.</p> <p>CO-3. Encourage Patriotism.</p> <p>CO-4. Leave cruelty, Live life in brotherly hood.</p> <p>CO-5. Eradicate bribe process for proper functioning.</p> <p>CO-6.Belive in our karma inspite of luck.</p>
<p><b>Unit II Padya- Vibhag( Poetry)</b></p> <ol style="list-style-type: none"> <li>1.Kabir ke dohe (Kbeerdas)</li> <li>2.Bhooshanvaani (Bhooshan)</li> <li>3.Manushayata (Maithilisharan Gupt)</li> <li>4.Jantantra ka jan (Ramdhari Singh ‘Dinkar’)</li> <li>5.Veeron ka kaisa ho vasant?(Subhdrakumari Chaouhan)</li> <li>6. Jeendgi ki Seekh (Kalika)</li> </ol>	<p>CO- 1.Students learn Moral value for life.</p> <p>CO-2. □□□□□□ □□□□□□ □□□□□□ □□ □□□□ □□ □□□□□.</p> <p>CO-3. □□□□ □□ □□□□□□□□ □□ □□□□□□.</p> <p>CO-4.□□□□□□□□□□ □□ □□□□ □□ □□□□□□ □□□□□.</p> <p>CO-5. □□□ □□ □□ □□□□ □□ □□□ □□□□ □□□□□□ □□□□□□□□ □□□□ □□□.</p> <p>CO-6.□□□□ □□□ □□□□□□□□□□ □□□□□□□□□ □□□□ □□□□□, □□ □□□□ □□ □□□□□ □□□□ □□□□ □□□□□.</p>
<p><b>Unit III - Vyavharik Hindi</b></p> <ol style="list-style-type: none"> <li>1.Paribhashik Shabdavali</li> <li>2.SwaVrutta (Boi –Data)</li> <li>3.Sakshatkar ( Interview)</li> </ol>	<p>CO- 1. Translate Hindi to English &amp; English to Hindi (Technical words).</p> <p>CO-2. Bio-Data, Resume (Self-reliant)writing.</p> <p>CO- 3. How to prepare for Interview. Things keep in mind.</p>
<p><b>Unit IV - Anya pathy Samgri</b></p> <p>Vilom Shabd (Antonyms)</p> <p>Anek Shbdon ke liye ek shabd</p> <p>Shabd ka shuddhikaran</p> <p>Shrutisam Bhinnarthak Shabd (Homunyms)</p>	<p>CO- 1. Opposite words with meanings .</p> <p>CO-2.One word for many words.</p> <p>CO- 3.Word correction.</p> <p>CO-4.Homonyms, Shrutisam Bhinnarthak shabd means the word which sound same but has different meanings.</p>

**Subject: Hindi (Optional)**

<p><b>Course ( Manthan)</b></p>	<p><b>Course Outcome</b></p> <p>After completion of this course students should be able to</p>
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Course (Palash)	Course Outcome After completion of this course students should be able to
<b>B.Com. I, Semester I (Theory:80 Marks Internal: 20 Marks)</b> <b>Unit – I -Essay Writting about -</b> Main Festivals, Social, Economic, Moral values etc.	CO-1. Identify the importance of festivals in Indian culture. CO-2. Explain the social, economic and moral values associated with festivals. CO-3. Write an essay on the importance of festivals in Indian culture.
<b>Unit II - Gadya -Vibhag (Prose)</b>  1.Bade Bhai Sahab ( Premchand) 2.Smruti (Shreeram Sharma) 3.Gilloo (Mahadevi Varma) 4.Abhav (Vishnu Prabhakar) 5.Mahabharat ki Sanjh (Bharatbhooshan Agarwal) 6.Ukhade Khambhe (Harishankr Parsai)	CO- 1. Identify the main characters and events in the story. CO-2. Explain the social and moral values in the story. CO-3. Write a summary of the story. CO-4. Write an essay on the importance of festivals in Indian culture. CO-5. Write an essay on the importance of festivals in Indian culture. CO-6. Write an essay on the importance of festivals in Indian culture.
<b>Unit – III -Padya- Vibhag( Poetry)</b> 1.Kabir ke dohe (Kabirdas) 2.Le chal vahan bhulaava dekar (Jaishankar Prasad) 3.Sneh nirjhar bah gaya hai (Soorykant Tripathi ‘Nirala’) 4.Pratham Rashmi (Sumitra Nandan Pant) 5.Jeevan ka Jharna (Arsiprasad Singh) 6.Kavita ke sath (Damodar Khadase)	CO-1. Students learn Moral value for life. CO-2. Identify the main characters and events in the story. CO-3. Explain the social and moral values in the story. CO-4. Write a summary of the story. CO-5. Write an essay on the importance of festivals in Indian culture. CO-6. Write an essay on the importance of festivals in Indian culture.



<b>Unit – IV-Any Pathay Samagri</b> 1.Muhavare aur Lokoktiyan(Idioms & Proverbs) 2. Vigyapan Kala (Advertisement)	CO-1.An idiom, Proverbs are commonly used phrase in the language to convey some genuine ideas. CO-2. Meaning & Importance of Advertisement.
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### Subject: Economics Program Outcomes (PO):

PO1: Basic knowledge: apply and analyze the knowledge of social sciences.

PO2: Problem Analysis: Identify, understand terms and particular concepts. Identify, formulate and analyze complex ideas in the social sciences.

PO3: Understand, identify and analyzed the knowledge such as, trade, banking, economic planning, economic development, economical issue, market, investment, agriculture, international trade etc.

PO4: Critical Thinking: Identify the assumptions, checking out the degree to which assumptions are accurate and valid looking out the correct perspectives.

PO5: Modern tool usage: To understand and analyzed the knowledge of ICT in communications.

PO6: Ethics and values: Apply the ethical principles and understand the responsibilities of the societies.

PO7: Communications: To communicate effectively in the society such as being able to comprehend and write effective reports and design documents for making effective presentation and exchange clear information.

Program specific outcomes (PSO) Economics

A degree in Political Science provides with the wide range of transferrable skills which is important.

PSO1: Understand the basic principle of Economics

PSO2: To understand trends in trade

PSO3: Understand the banking sector

PSO4: Understand the new trends and study of economics such as Economics planning and Government policy etc.

Course	Course Outcome
<b>B. A. I, Semester I</b> <b>Micro Economics Theory – I</b> <b>Objectives:</b> 1. To understand the concept of micro and macro economics 2. To learn importance and limitation of economics etc. To understand the demand and supply To understand the concept of production	CO1. Understand the concept of micro and macro economics CO2. Learn the importance and limitation of economics. CO3. Understood the demand and supply. CO4. Understand the concept of production and factor of production
<b>B. A. I, Semester -II Micro Economics Theory – II</b> <b>Objectives:</b> To Student understand the cost of production and revenue analysis. To Students understand the market structure and perfect competition market. To Students understand monopoly and imperfect competition market To understand theories of distribution, Rent,	CO1. Student understood the cost of production and revenue analysis CO2. Students understood the market structure and perfect competition market. CO3. Students understand monopoly and imperfect competition market CO4. Students understood theories of distribution, Rent, wage, interest and theories profit

wage, interest and theories profit	
<b>B. A. II, Semester-III Macro Economics Theory - I</b> <b>Objectives:</b> 1. To Student understand the nature and scope of macro economics To understand concept of national income 3. To understand the function of money and theories of value of money 4. To understand concept of output and employment	CO1. Student understood the nature and scope of macro economics CO2. Student understood the concept of national income CO3. Understood the function of money and theories of value of money CO4. Students understood concept of output and employment
<b>B. A. II, Semester-IV Macro Economics Theory - II</b> <b>Objectives:</b> 1. To Student understand the evolution of bank and meaning of banks. 2. To Students understand the commercial bank and central bank 3. To Students understand innovation in banking and monetary policy of Reserve Bank of India. To understand financial market	CO1. Student understood the evolution of bank. CO2. Students understood the commercial bank and central bank CO3. Students understood role of Reserve Bank of India CO4. Students understood financial market
<b>B.A. III, Semester V Indian Economy -1</b> <b>Objectives:</b> 1. To understand the nature and basic feature of Indian economy. 2. To understand the nature importance and problems related to Indian agriculture. 3. To understand the need importance and role of industries in economic development	CO1. Understood the nature and basic feature of Indian economy. CO2. Understood the nature importance and problems related to Indian agriculture. CO3. Understood the need importance and role of industries in economic development
<b>B. A. III, Semester VI Indian Economy -2</b> <b>Objectives:</b> 1. To understand the economic growth and economic development. 2. To understand the planning and policy-meaning, objective, broad achievement etc. 3. To understand nature scope and importance of public finance To understand the international trade	CO1. Understood the economic growth and economic development. CO2. Understood the planning and policy-meaning, objective, broad achievement etc. CO3. Understand nature scope and importance of public finance CO4. Understood the international trade

### **Subject: Home Economics**

#### **Programme Outcome:**

1. Knowledge about Family resource management
2. Makes students learn about food and nutrition
3. Makes students aware about child development
4. Provides knowledge of aesthetics from various element
5. Enables students about pregnancy, childcare and parent-child relationship
6. Engages students in diet plans and nutrition planning

### Programme Specific Outcome:

1. To create an awareness among the students about the management in the family.
2. To provide knowledge and develop skills regarding principles and methods of interior decoration., adequate diet, functions of food, role of nutrients, deficiencies and excesses
3. To impart knowledge about child development and ways of fostering the bond between children and parents.
4. To introduce to the students, the job opportunities in Home-Economics.
5. To train the students for self-employment
6. To develop employability skills and 'earn while learn' skills.

Course	Course Outcome
B.A. I Semester I Family Resource Management <u>Theory:</u> <u>Units:</u> 1.Introduction to Home-Economics, Branches of Home-Economics, their utility in daily life 2.Family Resource Management, Decision Making, 3. Elements of Art & Design, Principles of Art and design 4. Flower Arrangement. <u>Practical:</u> 1. Embroidery 2. Tie and Dye 3. Flower Arrangement <u>Internal:</u> Article making Skill Development Activities Guest lectures on Skill Development/Workshop	CO1. To help students become better decision makers CO2. To help the students manage money and resources CO3. To provide students information about aesthetics and ways of arranging objects to increase the aesthetics of a location CO4. To perform practicals to help students get a practical experience of the theory that they learn which include various types of Embroidery, dying method, flower arrangement CO5. Skills development for use in real life and learning it from the experts
B.A. I, Semester II Family Resource Management <u>Theory:</u> <u>Units:</u> 1. Self Employment in Home Economics, Family Housing needs Work Simplification and Colour Consumer Education 4. Furniture Arrangement <u>Practicals:</u> Knitting patterns Colour and Colour schemes 3. Block Printing and Fabric Painting <u>Internals:</u> Visit or Exhibit articles made by students Report writing 3. Preparation of Hand Wash, Washing powder, Phenyl and Shampoo, Apron Stitching	CO1. To provide the importance of self empowerment CO2. To help them consider how incorporating details of age, likes and status while creating a house CO3. To simplify day to day work and maximize the same output CO4. To impart knowledge of colors and help them improve aesthetics CO5. To help students become aware consumers CO6. To make furniture and its arrangement an important part of decorating the house CO7. To provide employment opportunity via activities like knitting, hand made articles etc

<p>B. A. II, Semester III Nutrition and Dietetics</p> <p><u>Theory:</u></p> <p><u>Units-</u></p> <p>1. Health, Nutrition, Dietetics, Nutritional status, optimum Nutrition and Nutrients.</p> <p>2. Micro Nutrients, Minerals, Vitamins and Water</p> <p>Fibre and Energy</p> <p>4. Basic Food Groups, methods of cooking and Sports Nutrition</p> <p><u>Practical:</u></p> <p>1. Preparation of recipes. Calculation of Calories and Proteins of prepared dishes</p> <p>Preparation of charts/health pyramid</p> <p>3. Celebration of Nutrition Week/ World Food Day/ Any nutritional awareness programme</p> <p>Report writing of the above programme</p>	<p>CO1. Educating students about how the need of nutrition is important and differs from person to person</p> <p>CO2. Imparting knowledge about various elements of nutrition and its sources</p> <p>CO3. Providing knowledge of Carbohydrates, Protein, fats, minerals and fiber</p> <p>CO4. Helping students with calories in every food and how to utilize this information for Sports Nutrition</p> <p>CO5. Various recipe preparation to check impart basic practical skills in the students</p> <p>CO6. To make the visual representation of various foods and their nutritional components.</p>
<p>B.A. II, Semester-IV Nutrition and Dietetics</p> <p><u>Theory:</u></p> <p><u>Units:</u></p> <p>Balanced Diet, Nutrition through life cycle</p> <p>Principles of Diet Therapy</p> <p>3. Food spoilage, Food Poisoning, Preservation, Adulteration</p> <p>4. Improving Nutritional Quality of foods, Malnutrition in India, Nutritional problems in India</p> <p><u>Practical:</u></p> <p>1. Preparation of recipes. Calculation of Calories and Proteins of prepared dishes.</p> <p><u>Activities:</u></p> <p>1. Canteen activity/Any Entrepreneurship activity/ Earn while Learn for ex. Papad, Masala, pickle, metkut, supari, Amla Candy</p> <p>Report writing of the above programme.</p>	<p>CO1. How to include all types of foods in the diet</p> <p>CO2. How to include the right proportions of foods in the diet</p> <p>CO3. Focused diet plan preparation through the stages of pregnancy</p> <p>CO4. How food gets spoiled, adulterated and house-ways of identifying the contamination</p> <p>CO5. Calories and protein check in various food items made</p> <p>CO6. Entrepreneurial ways of setting up small businesses</p>
<p>B.A.III, Semester V Child Development</p> <p><u>Theory:</u></p> <p><u>Units:</u></p> <p>1. An overview of the field of child-development. importance and scope of child-development, orientation in growth and development</p> <p>2. Genetic Inheritance-Fertilization, Number of Chromosomes, sex determination, Genotype and Phenotype, Parental Development</p> <p>Post- Natal Period</p> <p>4. Immunization and its importance, importance of Supplementary foods, Role of NGOs.</p> <p><u>Practical:</u></p> <p>Cooking for Pregnant and Lactating Women</p> <p>2. Knitting (6 months- 1 year)</p> <p>Hand/Machine/Computer <u>Activities:</u></p>	<p>CO1. To introduce the field of Child-Development. It's concept, scope, dimensions and interrelations.</p> <p>CO2. To sensitize the students to interventions in the field of child- development.</p> <p>CO3. To understand the biological and physiological foundation of development.</p> <p>CO4. To appreciate sequential ages of development during childhood.</p> <p>CO5. To sensitize students about childhood behavioural problems.</p> <p>CO6. To understand and appreciate the importance of parents-child development.</p> <p>CO7. To develop in student's creative ability related to children-leading to enhanced employability.</p> <p>CO8. To learn various ways of making recipes</p>

1. Preparation of supplementary food for 0-1 year- Cerelac/Nachni product /Any as per nutrients. 2. Immunization Charts/Female Feticides Poster/Organization of breast feeding week Report writing of above.	healthy and full of nutrition for women in different stages of pregnancy CO9. To prepare immunization charts for women in focus
B.A.III, Semester VI Child Development <u>Theory:</u> <u>Units:</u> 1. Early Childhood, Physical development, Emotional Development, Motor Development Speech, intellectual, Moral development 3. Social Development, Play - value and importance 4. Childhood behavioural problems, Parent-child relationship, Discipline, various agencies in this field <u>Practical:</u> Diet planning and preparation of recipes. 2. Drafting, cutting and stitching <u>Activities:</u> Organization of guest Lecture on health awareness of women and children 2. Preparation of Teaching aids for preschool Children: Finger Puppets, Masks, flash cards, Charts, And Report writing on above.	CO1. To understand and appreciate the importance of parents-child development. CO2. To develop in student's creative ability related to children-leading to enhanced employability. CO3. To learn various ways of making recipes healthy and full of nutrition for women in different stages of pregnancy CO4. To manage diet plans for women and pregnant ladies CO5. To design diet plans and prepare more recipes CO6. To make students aware of the teaching aids and prepare them for social realities regarding women from Guest Speakers

### **Subject: History Program Outcome:**

- PO1: History has an unprecedented significance in human life
- PO2: The study of history preserves culture
- PO3: The study of history leads to socio-political awareness
- PO4: Learn about world events
- PO5: The study of history is important for competitive examination
- PO6: Conversational skills come and understand the importance of human society
- PO7: Studying history inspires patriotism
- PO8:: The study of history reveals the national-international relations of the country.

### **Program Specific Outcome:**

PSO1: Knowing the importance of culture gives you the ability to make decisions in yourself  
POS2: Gains the ability to make decisions while living life  
POS3: Employment opportunities are obtained through competitive examinations  
POS4: New Values - Able generation is formed by acquiring moral values.

Course	Outcome:
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<p>B.A. -I Sem - I History of India (Beginning - 1525)</p> <p>1) To know information about Harappan culture, Vedic culture</p> <p>2) To understand information about Jainism-Buddhism</p> <p>Understanding slavery and sultanate</p> <p>4) To get information about devotional movement and Sufi sect</p>	<p>Co-1 Students understood Harappan culture and Vedic culture</p> <p>Co-2 I got detailed information about Jainism-Buddhism</p> <p>Co-3 Understood the value of slavery and sultanate</p> <p>4 Understood information about devotional movement and Sufi sect.</p>
<p>B. A I Sem-II History of India (1525 - 1761)</p> <p>1) How Mughal power was established in India.</p> <p>2) How was the administration of Sher Shah Suri</p> <p>Mughal carpet administration</p> <p>4) Information about Chhatrapati Shivaji and Mughal relationship</p> <p>Why and why Panipat III war took place</p>	<p>Co-1 Understood how the Mughal power was established in India.</p> <p>Learned information about Sher Shah Suri and Mughal administration</p> <p>I got information about Chhatrapati Shivaji and Mughal relationship</p> <p>Co-4 Understood the Panipat Third War and the arrival of the British.</p>
<p>B.A.II (III -Sem) History of India(1764 - 1884)</p> <p>Battle of Buxar and English policy</p> <p>2) Kayamdhara Methods, Rayatwari, and Lord Wellesley</p> <p>3) The uprising of 1857 (independent war) results</p> <p>How did nationalism emerge in India</p>	<p>Co-1 The Battle of Buxar and how the British implemented their policy in India</p> <p>Gained information about working methods, ryotwari, and Lord Wellesley deployment forces.</p> <p>Co-3 The uprising of 1857 (independent war) result was known</p> <p>Co-4 Learned how nationalism emerged in India</p>
<p>B.A.II (IV -Sem) History of India(1885 -1947)</p> <p>How the National Congress was formed</p> <p>What was the role of Jhal and Mawal?</p> <p>3) Non-cooperation, civil disobedience movement</p> <p>4) Indian Independence Mountaineering Scheme</p>	<p>Co-1 Learned about the establishment of the National Congress</p> <p>Co-2 Understood the role of Jhal and Mawal</p> <p>information was received about non-cooperation, civil disobedience movement</p> <p>Co-4 Gained detailed knowledge of how India became independent</p>
<p>B.A.III (V-Sem) Modern World (1789 -1920)</p> <p>1) What were the causes and consequences of the French Revolution?</p> <p>How imperialism came into being</p> <p>World War I - Treaty of Versailles</p> <p>United Nations and performance</p>	<p>Co-1 The French Revolution was also the first revolution in the world</p> <p>Co-2 What are the reasons for imperialism?</p> <p>Co-3 World War I - The Treaty of Versailles</p> <p>Co-4 Learned about the United Nations and its achievements and failures</p>
<p>B.A.III (VI -Sem) Modern World (1920 -1960)</p> <p>What were Russia's five year plans?</p> <p>Hitler - Mussolini's foreign policy</p> <p>Causes of World War II</p> <p>United Nations and performance Suez Canal</p>	<p>Co-1 Learned about Russia's Five Year Plan</p> <p>Co-2 Hitler - Mussolini's foreign policy in detail</p> <p>Co-3 Learned the reasons for the Second World War</p> <p>Co-4 Received information about the United Nations and the performance of the Suez Canal, NATO Site, Warsaw Pa</p>

**Subject: Political Science Program Outcome:**

- **PO1: Basic knowledge:** apply and analyze the knowledge of social sciences.
- **PO2: Problem Analysis:** Identify, understand terms and particular concepts. Identify, formulate and analyze complex ideas in the social sciences.
- **PO3:** Understand, identify and analyzed the knowledge such as, code of conduct of society, manners, cultural issues, political issues, economical, historical and geographical etc.
- **PO4: Critical Thinking:** Identify the assumptions, checking out the degree to which assumptions are accurate and valid looking out the correct perspectives.
- **PO5: Effective communication:** Apply the basic knowledge to listen, speak, read and write clearly to understand English knowledge.
- **PO6: Modern tool usage:** To understand and analyzed the knowledge of ICT in communications.
- **PO7: Ethics and values:** Apply the ethical principles and understand the responsibilities of the societies.
- **PO8: Communications:** To communicate effectively in the society such as being able to comprehend and write effective reports and design documents for making effective presentation and exchange clear information.

**Program Specific Outcome:**

A degree in Political Science provides with the wide range of transferrable skills which is important.

- **PSO1:** Understand the basic principles of politics.
- **PSO2:** Awareness of their rights.
- **PSO3:** Understand the code of conduct political issues.
- **PSO4:** Understand the new trends and study of political science such as Good Governance and political parties etc.

Course	Outcome:
<b>B. A. I- Political Science Political Theory &amp; Concept S-I</b>  <b>Objectives:</b> 1. To understand the concept of State & Civil Society. 2. To learn the origin of the concept such as law, power, authority & legitimacy etc. 3. To understand the nature & scope of political theory. 4. To evaluate the theories of origin of the states.	1. Understood the concept of State & Civil Society. 2. Learned the origin of the concept such as law, power, authority & legitimacy etc. 3. Understood the nature & scope of political theory. 4. Evaluated the theories of origin of the states.

<p><b>Western Political Thought S-II</b></p> <p><b>Objectives:</b>          To Student will demonstrate of knowledge key thinkers &amp; concept          To Students will compare thinkers on similar concept          To Students use various concepts to analyze new situation</p>	<p>1. Student will demonstrated of knowledge key thinkers &amp; concept          2. Students will compared thinkers on similar concept.          3. Students used various concepts to analyze new situation.</p>
<p><b>B.A. – II Indian Government and Politics S-III</b></p> <p><b>A) Objectives:</b>          1. To Student understand the philosophy if Indian Constitution          2. To Student identify the causes, impacts of British Colonial Rule          3. To understand the various Government of Indian Acts          4. To appreciate the various phases of Indian National Movement</p>	<p>1. Student understood the philosophy if Indian Constitution          2. Student identified the causes, impacts of British Colonial Rule          3. Understood the various Govt. of Indian Acts          4. Students appreciated the various phases of Indian National Movement</p>
<p><b>State Government and Politics S-IV</b></p> <p><b>A. Objectives:</b>          1. To understand the evolution, scope &amp; significance of State Government and Politics.          2. To understand the 73<sup>rd</sup> &amp; 74<sup>th</sup> amendments of Indian Constitution.          3. To understand the various structure &amp; functions of Local Self Government.</p>	<p>Understood the evolution, scope &amp; significance of localself Govt. of Maharashtra          Understood the 73<sup>rd</sup> &amp; 74<sup>th</sup> amendments of Indian Constitution          Understood the various structure &amp; functions of Local Self Government</p>
<p><b>BA – III Comparative Politics S-V</b></p> <p><b>A. Objectives:</b>          1. To understand the intellectual foundation of Comparative Politics.          2. To understand the England and America political culture.          3. To understand the England and America political Party process &amp; agencies.</p>	<p>Understood the intellectual foundation of Comparative Politics.          Understood the England and America political culture.          Understood the England and America political Party process &amp; agencies</p>
<p><b>International Relations S-VI</b></p> <p><b>A. Objectives:</b>          1. To understand the evolution, scope &amp; significance of International Relations.          2. To criticized the various ideologies which lead to destruction of world.          3. To identify various issues &amp; challenges toward International Relations.          4. To understand the International Political Economy</p>	<p>Understood the evolution, scope &amp; significance of International Relations.          Criticized the various ideologies which lead to destruction of world.          Identified various issues &amp; challenges toward International relations          Understood the International Political Economy</p>

**Subject: M. A. (English) Program Outcome:**

- PO-1. The background of the English literature of the period of Chaucer to John Milton
- PO-2. The Major trends in English Literature during the period
- PO-3. The poets prescribed for the syllabus and understand their poetry
- PO-3. The background of the literature of the Restoration Period and the Eighteenth Century
- PO-4. Major trends in English Literature during the Period
- PO-5 The major literary work in the period.
- PO-6. Background to the Indian Writing in English
- PO-7. Major writers and their works of the Indo-Anglian Literature
- PO-8. The background of the origin and Development of English Prose
- PO-9. Literary Criticism and Theory
- PO-10. History of English Language

**Program Specific Outcome:**

- PSO-1. The various trends of English Literature across the world
- PSO-2. Background to the English Literature of Different Period
- PSO-3. Development of various genres of English Literature Across the Globe
- PSO-4. Development of English Novel, Drama and Prose Over the Years
- PSO-5. Learn and understand the various trends in literary criticism and the literary theories in English Literature
- PSO-6. The application of literary criticism and literary theories to particular work of art
- PSO-7. The development of English Language from Old English period to Modern English Period
- PSO-8. Various Laws of Language Development
- PSO-9. Foreign and Native Influence in the development of English Language
- PSO-10. Contribution of Various Individual Writers, Bible and Science and Technology for the Enhancement of the vocabulary of English Language
- PSO-11. Difference between American English and British English

Course	Outcome:
Sem I: Paper I: English Poetry from Chaucer to Milton	CO-1. Learn and understand the biographical account and literary contribution of William Langland, John Gower and William Langland
Unit I: Topics for Background: Hundred Year War, Black Death, Peasant's Revolt, Lollard Movement, Contribution of John Gower, Contribution of William Langland	CO-2. Learn and understand about the impact of Hundred Year War, Black Death, Peasant's Revolt and Lollard Movement on English Literature in Fourteenth Century.
Text For Detailed Study: The Prologue to the Canterbury Tales by Geoffrey Chaucer	CO-3. Learn historical background of the Prologue to the Canterbury Tales
	CO-4. Learn and understand the outline story of the text
	CO-5. Character Portrayal of Geoffrey Chaucer in The Prologue to the Canterbury Tales
	CO-6. Sketch the characters portrayed in The Prologue to the Canterbury Tales

<p>Unit II: Topics of Background: John Barbour, Contribution of John Wycliffe, The Rise of Ballad, The English Chaucerians and Scottish Chaucerians.</p> <p>Text for detailed Study:</p> <p>Shakespearean Sonnets: Sonnet 01-From Fairest Creatures We Desire Increase 2 Sonnet 18 – Shall I compare thee to a summer’s day? 3. Sonnet no. 27 – Weary with toil, I Haste me to my bed. 4. Sonnet 30 – Went to the sessions of sweet silent thought.</p> <p>Spenserians Sonnets: 1. Sonnets LXXV 2. Happy ye Leaves! When as those Lily Hands 3. Most glorious Lord of life, that on this Day. 4. Fair is my love, when her fair golden hairs.</p>	<p>CO-1. Learn and understand life and contribution of John Wycliffe and John Barbour to English literature of fourteenth century.</p> <p>CO-2. Learn and understand the emergence of ballad in English literature.</p> <p>CO-3. Learn and understand about the English Chaucerians and Scottish Chaucerians.</p> <p>CO-4. Learn and understand the theme of the Shakespearean Sonnets and Spenserian Sonnets prescribed in the syllabus</p> <p>CO-5. Make Critical appreciation of the Shakespearean Sonnets and Spenserian Sonnets prescribed in the syllabus</p> <p>CO-6. Learn and understand the central idea of the Spenserian Sonnets prescribed in the syllabus</p>
<p>Unit IV: Topics of Background: The Puritanism, Contribution of Edmund Walter, Vestiarian Controversy, Millenary Petition, Cavalier Poets.</p> <p>Text for detailed study: John Milton’s The Paradise Lost Book II</p>	<p>CO-1. Learn and understand the background of Puritanism, Vestiarian Controversy, Millenary Petition, Cavalier Poets.</p> <p>CO-2. Learn and understand the contribution of Edmund Walter.</p> <p>CO-3. Learn and understand the central idea, theme of the Paradise Lost Book II</p> <p>CO-4. Make the character sketch of the characters in the epic The Paradise Lost Book II</p>
<p>Sem I: Paper II: English Renaissance Drama</p> <p>Unit I: Topics for background: The Renaissance, Mystery, Miracle and Morality Plays, Interludes, The University Wits.</p> <p>Text for detailed study: Christopher Marlowe’s <i>The Jew of Malta</i>.</p>	<p>CO-1. Know and understand the Age of Renaissance and its characteristics</p> <p>CO-2. Know and understand the Mystery, Miracle and Morality Plays and Interludes</p> <p>CO-3. Know and understand about The University Wits</p> <p>CO-4. Know and understand the biographical account and literary contribution of Thomas Marlowe</p> <p>CO-5. Know and understand the outline story of The Jew of Malta</p> <p>CO-5. Learn and understand the main plot of the play</p> <p>CO-6. Sketch the character of major and minor characters in the play</p>

<p>Unit II: Historical Plays</p> <p>Topics of Background: The Destruction of Monasteries, Outbreak of plague in the Sixteenth Century, Peace Treaty of London, .</p> <p>Text for detailed study:</p> <p>Shakespeare: Othello</p>	<p>CO-1. Learn and understand background for The Destruction of Monasteries</p> <p>CO-2. Learn and understand the impact of Outbreak of plague in the Sixteenth Century</p> <p>CO-3. Learn and understand about Peace Treaty of London, Defeat of Spanish Armada, Poor Relief Act of 1601</p> <p>CO-4. Learn and understand the biographical account and literary contribution of William Shakespeare</p> <p>CO-5. Learn and understand the outline story of the play Othello</p> <p>CO-6. Learn and understand the main plot of the play Othello</p> <p>CO-7. Learn and understand the historical background of the play Othello</p> <p>CO-8. Learn and understand about the adaptation of the play</p> <p>CO-9. Sketch the major and minor characters in the play</p> <p>Co-10. Learn and understand about writing reference to contexts of the dialogues taken from the play</p>
<p>Unit III:</p> <p>Topics of Literary Background: Theatres in the Elizabethan Age, The reasons for the popularity of drama in the Elizabethan Age, Tudor despotism, Contribution of Edward Peele</p> <p>Text for detailed study-</p> <p>Shakespeare: Antony and Cleopatra</p>	<p>CO-1. Learn and understand about the emergence of Theatres in the Elizabethan Age, The reasons for the popularity of drama in the Elizabethan Age, Tudor despotism.</p> <p>CO-2. Learn and understand about the contribution of Edward Peele as a dramatist.</p> <p>CO-3. Learn and understand about the contribution of William Shakespeare to the English tragedies.</p> <p>CO-4. Learn and understand about the outline story of the play <i>Antony and Cleopatra</i>.</p> <p>CO-5. Learn and understand the major plot of the play</p> <p>CO-5. Learn and understand the major and minor characters in the play</p> <p>CO-6. Learn and understand 'Macbeth as a Shakespearean Tragedy'</p> <p>CO-7. Sketch the major and minor characters in the play</p> <p>CO-8. Write the reference to context of the passages taken from the play</p>

<p>Unit IV: Background Study Topics: Reasons for the decline of drama in the Jacobean age, Contribution of George Chapman, John Marston, Thomas Heywood, Thomas Middleton.</p> <p>Text for detailed study: John Webster: <i>The White Devil</i></p>	<p>CO-1. Learn and understand Reasons for the decline of drama in the Jacobean age, Contribution of George Chapman, John Marston, Thomas Heywood, Thomas Middleton.</p> <p>CO-2. Learn and understand the biographical account and literary contribution of Webster</p> <p>CO-3. Learn and understand the outline story of the play <i>The White Devil</i></p> <p>CO-4. Learn and understand the main plot of the play</p> <p>CO-5. Learn and understand major and minor characters in the play</p> <p>CO-6. Sketch the character of the major and minor characters in the play</p> <p>CO-7. Learn and understand the <i>The White Devil</i> as the Horror Play</p> <p>Co-8. Write the reference and context of the passages taken from the play</p>
<p>Sem I: Paper III: Indian Writing in English-I</p> <p>Unit I:</p> <p>Background Study Topics: Zamindari Association, Bengal British India Society, Young Bengal, Contribution of Manmohan Ghose, Sri Aurobindo.</p> <p>Text for detailed study: Toru Dutt: <i>The Lotus</i>, <i>Baugmaree</i>, <i>Our Old Casuarina Tree</i> Rabindranath Tagore: Songs from <i>Gitanjali</i> (I, XI, XXXV, LXXIV) Sarojini Naidu: <i>A Love Song from the North</i>; <i>Autumn Song</i>; <i>Coromandel Fishers</i>.</p>	<p>CO-1. Learn and understand the brief information about Zamindari Association, Bengal British India Society, Young Bengal, Contribution of Manmohan Ghose, Sri Aurobindo.</p> <p>CO-2. Learn and understand the brief biographical information and literary contribution of Toru Dutt</p> <p>CO-3. Learn and understand the central idea, theme and critical appreciation of the poems <i>The Lotus</i>, <i>Baugmaree</i>, <i>Our Old Casuarina Tree</i></p> <p>CO-4. Learn and understand the brief biographical information and literary contribution of Rabindranath Tagore</p> <p>CO-5. Learn and understand the central idea, theme and critical appreciation of Songs from <i>Gitanjali</i> (I, XI, XXXV, LXXIV)</p> <p>CO-6. Learn and understand the brief biographical information and literary contribution of Sarojini Naidu</p> <p>CO-7. Learn and understand the central idea, theme and critical appreciation of the Poems <i>A Love Song from the North</i>; <i>Autumn Song</i>; <i>Coromandel Fishers</i></p>

<p>Unit II: Background Study Topics: British Indian Association, The East India Association, Madras Mahajan Sabha, Surendranath Banerjee, The contribution of Rajarao to Indian English Fiction</p> <p>Text for detailed study: Mulk Raj Anand: <i>Two Leaves and a Bud</i></p>	<p>CO-1. Learn and understand about British Indian Association, The East India Association, Madras Mahajan Sabha, Surendranath Banerjee, The contribution of Rajarao to Indian English Fiction</p> <p>CO-2. Learn and understand the biographical account and literary contribution of Mulk Raj Anand in Indian Writing in English</p> <p>CO-3. Learn and understand the outline story of the novel '<i>Two Leaves and a Bud</i>'</p> <p>CO-4. Learn and understand about the central idea and major theme of the novel <i>Two Leaves and a Bud</i></p> <p>CO-5. Learn and understand the major and minor characters in the novel</p>
<p>Unit III: Background Study Topics: Indian Association(1876),Ruin of India's traditional handicrafts, Partition of Bengal, Contribution of Kamala Markandaya</p> <p>Text for detailed study:R.K.Narayan: The Financial Expert</p>	<p>CO-1. Learn and understand about the formation of Indian Association(1876),Ruin of India's traditional handicrafts, Partition of Bengal, Contribution of Kamala Markandaya</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of R.K.Narayan</p> <p>CO-3. Learn and understand the outline story of the novel The Financial Expert</p> <p>CO-4. Learn and understand the main plot of the novel The Financial Expert</p> <p>CO-5. Learn and understand the major and minor characters in the novel</p> <p>CO-6. Sketch the major and minor characters in the novel</p>
<p>Unit IV: Background Study Topics: Surat Split,Minto Morley Reforms, The Lucknow Pact,Contribution of Ruth Prawar Jhabwala,Manohar Malgaonkar</p> <p>Text for detailed Study: Bhabani Bhattacharya: <i>Music for Mohini</i></p>	<p>CO-1. Learn and understand the brief information about Surat Split,Minto Morley Reforms, The Lucknow Pact,Contribution of Ruth Prawar Jhabwala,Manohar Malgaonkar</p> <p>CO-2. Learn and understand the biographical information and literary contribution of Bhabani Bhattacharya</p> <p>CO-3. Learn and understand the outline story of the novel <i>Music for Mohini</i>.</p> <p>CO-4. Learn and understand the central idea and major theme of novel</p> <p>CO-6. Learn and understand the major and minor characters in the novel and their role in the story</p>



<p>Sem I: Paper IV: The English Novel-I Unit I. Background Study Topics: The causes of rise of novel in the first half of eighteenth century, Contribution of Samuel Richardson, Tobias Smollett, Laurence Sterne and Daniel Defoe, The Picaresque Novel. Text for detailed study: Henry Fielding: <i>Tom Jones</i></p>	<p>CO-1. Learn and understand about The causes of rise of novel in the first half of eighteenth century, Contribution of Samuel Richardson, Tobias Smollett, Laurence Sterne and Daniel Defoe, The Picaresque Novel. CO-2. To learn and understand the biographical account of Henry Fielding. CO-3. To understand the contribution of Henry Fielding to English Novel. CO-4. To know <i>Tom Jones</i> as the Picaresque Novel. CO-5. To analyze the major and minor characters in the novel.</p>
<p>Unit II. Background study topics: The causes of decline of novel after Fielding, Gothic and Oriental Romance: Contribution of Walpole, Anne Radcliff, Matthew Lewis, Clara Reeve, William Beckford. Text for detailed study: Mary Shelley: <i>Frankenstein</i></p>	<p>CO-1. To learn and understand about The causes of decline of novel after Fielding, Gothic and Oriental Romance: Contribution of Walpole, Anne Radcliff, Matthew Lewis, Clara Reeve, William Beckford. CO-2. To learn the brief biographical account of Mary Shelley. CO-3. To study contribution of Mary Shelley to the English novel. CO-4. To understand Mary Shelley as Gothic novelist. CO-5. To learn and understand central idea and major theme of the novel <i>Frankenstein</i>. CO-6. To analyze major and minor characters in the novel. CO-7. To analyze <i>Frankenstein</i> as Gothic novel.</p>
<p>Unit III: Background study topics: The novel of sensibility; Contribution of Henry Brook and Henry Mackenzie, Novel in Romantic Era, Contribution of Women novelists, Maria Edgeworth, Sussane Ferrier, Marry Rusell Mitfort. Text for detailed study: Jane Austen: <i>Mansfield Park</i>.</p>	<p>CO-1. To learn and understand about The novel of sensibility; Contribution of Henry Brook and Henry Mackenzie, Novel in Romantic Era, Contribution of Women novelists, Maria Edgeworth, Sussane Ferrier, Marry Rusell Mitfort. CO-2. To know the biographic detail of Jane Austen. CO-3. Contribution of Jane Austen to the English novel. CO-4. To learn and understand the central idea and major theme of the novel <i>Mansfield Park</i>. CO-5. To analyze major and minor characters in the novel.</p>
<p>Unit IV: Background study topics: Contribution of Bulwar Lyton, William Harrison Ainsworth, George P.R. James, Charles Lever, Fredric Marryat, Romantic and Historical Novel. Text for detailed study: Walter Scott: <i>Ivanhoe</i></p>	<p>CO-1. To learn and understand about Contribution of Bulwar Lyton, William Harrison Ainsworth, George P.R. James, Charles Lever, Fredric Marryat, Romantic and Historical Novel</p>

	<p>CO-2. To know the biographical sketch of Walter Scott.</p> <p>CO-3. To learn and understand about the contribution of Walter Scott as originator of Historical novels in English Literature.</p> <p>CO-4. To learn and understand central idea, major theme of the novel <i>Ivanhoe</i>.</p> <p>CO-5. To analyze the major and minor characters in the novel.</p> <p>CO-6. To study <i>Ivanhoe</i> as Historical novel.</p>
<p>Sem II: Paper I: Restoration and 18<sup>th</sup> Century English Literature</p> <p>Unit I: Topics of Background: The Civil War, The court Poets of Restoration of Monarchy, The Royal Society, Development of Satire.</p> <p>Text for detailed study: John Dryden; <i>Absalom and Achitophel</i>.</p>	<p>CO-1. To learn and understand about The Civil War, The court Poets of Restoration of Monarchy, The Royal Society, Development of Satire.</p> <p>CO-2. To know the biographical sketch of John Dryden.</p> <p>CO-3. John Dryden's contribution to English poetry and criticism.</p> <p>CO-4. To know the use of biblical characters in <i>Absalom and Achitophel</i>.</p> <p>CO-5. To know the political background of England for Dryden's writing political satire <i>Absalom and Achitophel</i>.</p> <p>CO-6. To learn and understand the central idea and the theme of <i>Absalom and Achitophel</i>.</p> <p>CO-7. To study the use of literary devices and figure of speech used by John Dryden in <i>Absalom and Achitophel</i>.</p>
<p>Unit II: Topics of Background: Samuel Butler's <i>Hudibras</i>, Growth of Coffee Houses, The Great Fire of London, The Golden Revolution, Characteristics of Neo-Classicism.</p> <p>Text for detailed study: Alexander Pope: <i>The Rape of the Lock</i>.</p>	<p>CO-1. Learn and understand the brief information about Samuel Butler's <i>Hudibras</i>, Growth of Coffee Houses, The Great Fire of London, The Golden Revolution, Characteristics of Neo-Classicism.</p> <p>CO-2. To study the biographical account of Alexander Pope.</p> <p>CO-3. Contribution of Alexander Pope to the English Poetry.</p> <p>CO-4. To analyze Alexander Pope as Neo-Classical Poet and Critic.</p> <p>CO-5. To learn and understand central idea and the major theme of the comic epic <i>The Rape of the Lock</i>.</p> <p>CO-6. To analyze <i>The Rape of the Lock</i> as comic-epic.</p> <p>CO-7. To study the use of imagery, literary devices and figure of speech used in the poem <i>The Rape of the Lock</i>.</p>

<p>Unit III: Topics of Literary Background: War of Spanish Succession, Collapse of South Sea Bubble, Tenure of Sir Walpole as Prime Minister, Expansion of British Empire. Text for detailed study: Jonathan Swift: <i>The Battle of the Books</i>.</p>	<p>CO-1. Learn and understand about War of Spanish Succession, Collapse of South Sea Bubble, Tenure of Sir Walpole as Prime Minister, Expansion of British Empire. CO-2. To learn and understand the biographical account of Jonathan Swift. CO-3. Contribution of Jonathan Swift to the English Literature. CO-4. To analyze Jonathan Swift as a satirist. CO-5. To study the central idea and theme of <i>The Battle of the Books</i>. CO-6. To analyze <i>The Battle of the Books</i> as satire.</p>
<p>Unit IV: Topics of Literary Background: Poets of Revolt, Poets of Transition, Graveyard Poets, Thomas Percy's Reliques of Ancient English Poetry. Text for detailed study: Thomas Gray: <i>Elegy Written in the Country Churchyard</i>. William Blake: <i>Echoing Green, A Poison Tree, The Angel</i>.</p>	<p>CO-1. To learn and understand Poets of Revolt, Poets of Transition, Graveyard Poets, Thomas Percy's Reliques of Ancient English Poetry. CO-2. To know the biographical account of Thomas Gray and his contribution to English Poetry. CO-3. To know the central idea and major theme of <i>Elegy Written in the Country Churchyard</i>. CO-4. To make the critical analysis of the poem <i>Elegy Written in the Country Churchyard</i>. CO-5. To know the biographical account of William Blake and his contribution to English Poetry. CO-6. To know the central idea and major theme of the poems <i>Echoing Green, A Poison Tree</i> and <i>The Angel</i>. CO-7 To make the critical analysis of the poems <i>Echoing Green, A Poison Tree, The Angel</i>.</p>
<p>Sem II: Paper II: Modern English Drama Unit I: Topics for Background: The Problem Play, the Contribution of Oscar Wilde, Granville Barker, J.M. Barrie, John Galsworthy. Text for detailed study: G.B.Shaw: <i>The Apple Cart</i></p>	<p>CO-1. To learn and understand about The Problem Play, the Contribution of Oscar Wilde, Granville Barker, J.M. Barrie, John Galsworthy. CO-2. To know the biographical account of G.B. Shaw and his contribution to Modern English Drama. CO-3. To study the central idea and the major theme of the play <i>The Apple Cart</i> CO-4. To study the major and minor characters in the play <i>The Apple Cart</i> CO-5. Analyze <i>The Apple Cart</i> as political extravaganza.</p>

<p>Unit II: Topics for Background: The Abbey Theatre, Kitchen Sink Drama, Angry Young Man characters by John Braine, John Wain, Alan Sillitoe, Arnold Wesker Text for detailed study: John Osborne: <i>Look Back in Anger</i></p>	<p>CO-1. Learn and understand about The Abbey Theatre, Kitchen Sink Drama, Angry Young Man characters by John Braine, John Wain, Alan Sillitoe, Arnold Wesker CO-2. Learn and understand the biographical account and literary contribution of John Osborne. CO-3. Learn and understand the outline story of the play <i>Look Back in Anger</i>. CO-4. Learn and understand the main plot of the play <i>Look Back in Anger</i>. CO-5. Learn and understand the major and minor characters in the play <i>Look Back in Anger</i>. CO-6. Learn and understand the concept of 'Angry Young Man' CO-7. Sketch the major and minor characters in the play <i>Look Back in Anger</i>.</p>
<p>Unit III: Topics for Background: The revival of the Poetic Drama, Comedy of Noel Coward, Drawing room plays, Alan Ayckborn Text for detailed study: T.S. Eliot: <i>The Family Reunion</i></p>	<p>CO-1. Learn and understand about The revival of the Poetic Drama, Comedy of Noel Coward, Drawing room plays, Alan Ayckborn CO-2. Learn and understand the brief biographical account and literary contribution of T.S. Eliot CO-3. Learn and understand about the outline story of the play <i>The Family Reunion</i> CO-4. Learn and understand the main plot of the play <i>The Family Reunion</i> CO-5. Learn and understand the play <i>The Family Reunion</i> The Poetic Drama CO-6. To analyze the major characters in the play.</p>
<p>Unit IV: Topics for Background: The Theatre of Absurd, Existentialism, Myth of Sisyphus, Tom Stoppard, The Radio Plays, Harold Pinter Text for detailed study: Samuel Beckett: <i>Waiting for Godot</i></p>	<p>CO-1. Learn and understand about The Theatre of Absurd, Existentialism, Myth of Sisyphus, Tom Stoppard, The Radio Plays, Harold Pinter CO-2. Learn and understand the brief biographical account and the literary contribution of Samuel Beckett CO-3. Learn and understand <i>Waiting for Godot</i> as the absurd play CO-4. Learn and understand the main plot of the play CO-5. Learn and understand the major and minor characters in the play <i>Waiting for Godot</i> CO-6. Sketch the major and minor characters in the play <i>Waiting for Godot</i></p>

<p>Sem II: Paper III: Indian Writing in English-II</p> <p>Unit I: Topics for Background: Problem of Refugee after Independence, Introduction of five year plan, Indian Constitution and first general elections, Linguistic Reorganisation, Dalai Lama's escape to India.</p> <p>Texts for detailed study: Nissim Ezekiel: Case study, Poet, Lover, Birdwatcher, Background Casually. Kamala Das: The Freaks, Jaisurya, The Looking- Glass, The Sunshine Cat A.K. Ramanujan: Obituary, Small Scale Reflections on a Great House, Of Mothers, Among Other Things, Love Poem for Wife I Arun Kolatkar: From Jejuri-Heart of Ruin, The Priest's Son, Yeshwant Rao, The Railway Station, An Old Woman</p>	<p>CO-1. Learn and understand about Problem of Refugee after Independence, Introduction of five year plan, Indian Constitution and first general elections, Linguistic Reorganisation, Dalai Lama's escape to India.</p> <p>CO-2. Learn and understand the biographical account and literary contribution of Nissim Ezekiel, Kamala Das, A.K. Ramanujan, Arun Kolatkar.</p> <p>CO-3. Learn and understand the central idea, theme and summary of Nissim Ezekiel's poems <i>Case study, Poet, Lover, Birdwatcher, Background Casually</i>.</p> <p>CO-4. Learn and understand the central idea, theme and summary of Kamala Das's Poems <i>The Freaks, Jaisurya, The Looking- Glass, The Sunshine Cat</i></p> <p>CO-5. Learn and understand the central idea, theme and summary of A.K. Ramanujan's Poems Obituary, Small Scale Reflections on a Great House, Of Mothers, Among Other Things, Love Poem for Wife I</p> <p>CO-6. Learn and understand the central idea, theme and summary of Arun Kolatkar's Poems From Jejuri-Heart of Ruin, The Priest's Son, Yeshwant Rao, The Railway Station, An Old Woman</p>
<p>Unit II(Poetry):Topics for Background: Indus Water Dispute, Liberation of Goa and Puducherry ,Beginning of Naxalite movement, Contribution of Shashi Deshpande, Namita Gokhale</p> <p>Texts for detailed Study: Anita Desai:Clear Light of the Day.</p>	<p>CO-1. Learn and understand about Indus Water Dispute, Liberation of Goa and Puducherry ,Beginning of Naxalite movement, Contribution of Shashi Deshpande, Namita Gokhale</p> <p>CO-2. Learn and understand the biographical account and literary contribution of Anita Desai</p>

	CO-3. Learn and understand about the Outline Story of Clear Light of the Day.
Unit III: Topics for Background: Reorganization of North East Act 1971, Shimla Pact, J.P. Movement, Emergency, Contribution of Anita Nair Text for detailed discussion: Arun Joshi: <i>A Strange Case of Billy Biswas</i>	CO-1. To learn and understand about Reorganization of North East Act 1971, Shimla Pact, J.P. Movement, Emergency, Contribution of Anita Nair CO-2. To learn and understand the biographical account and literary contribution of Arun Joshi CO-3. To learn and understand the central ideal, theme and summary of the short stories of <i>A Strange Case of Billy Biswas</i> CO-4. To analyze the Major characters in the novel. CO-5. To learn and understand the narrative techniques and symbols and imageries used by the novelist.
Unit IV(Fiction): Topics for Background: Environment Protection Act 1986, Mandal Commission Report, Economic Liberalization, Contribution of Vijay Tendulkar, Girish Karnad Text for detailed Study: Mahesh Dattani: <i>Bravely Fought The Queen</i>	CO-1. To learn and understand about Environment Protection Act 1986, Mandal Commission Report, Economic Liberalization, Contribution of Vijay Tendulkar, Girish Karnad CO-2. To learn and understand the biographical account and literary contribution of Mahesh Dattani. CO-3. To learn and understand the central ideal, theme and summary of <i>Bravely Fought The Queen</i> CO-4. To learn and understand about the major and minor characters in the play.
Sem II: Paper IV: The English Novel- II Unit I <b>The Early Victorian Novels and Early Victorian Women Novelists:</b> Contribution of Charles Dickens, Elizabeth Gaskell, W.M. Thackeray, Charlotte Bronte, George Eliot Text for Detail Study: Emily Bronte: <i>Wuthering Heights</i>	CO-1. To learn and understand about Contribution of Charles Dickens, Elizabeth Gaskell, W.M. Thackeray, Charlotte Bronte, George Eliot CO-2. To learn and understand about biographical account and literary contribution of Emily Bronte CO-3. To learn and understand The Central Idea, theme and summary of the novel <i>Wuthering Heights</i> CO-4. To analyze the major and minor characters in the novel
Unit II <b>The Later Victorians:</b> Topics for Background Study: Contribution of George Meredith, Henry James, John Watson, George Gissing, George W.S. Brown, John Galt Text for detail Study: Thomas Hardy: <i>Far from the Madding Crowd</i>	CO-1. To learn and understand Contribution of George Meredith, Henry James, John Watson, George Gissing, George W.S. Brown, John Galt CO-2. To learn and understand about biographical account and literary contribution of Thomas Hardy CO-3. To learn and understand about the outline story, central idea, theme and summary of the

	<p>novel <i>Far from the Madding Crowd</i></p> <p>CO-4. To study <i>Far from the Madding Crowd</i> as a novel of destiny</p> <p>CO-5. To learn and understand about the major and minor characters in the novel</p> <p>CO-6. To study <i>Far from the Madding Crowd</i> as Regional Novel</p>
<p><b>Unit III Stream of Consciousness Technique:</b></p> <p>Topics for Background Study: The Bloomsbury Group, Contribution of James Joyce, Virginia Woolf, Joseph Conrad and D.H. Lawrence</p> <p>Text for Detail Study: Henry James: <i>The Portrait of a Lady</i></p>	<p>CO-1. To learn and understand about The Bloomsbury Group, Contribution of James Joyce, Virginia Woolf, Joseph Conrad and D.H. Lawrence</p> <p>CO-2. To learn and understand biographical account and literary contribution of Henry James to the English Novel</p> <p>CO-3. To learn and understand about the stream of Consciousness technique used in the English Novel</p> <p>CO-4. To learn and understand about the narrative technique, central idea, theme and summary of the novel <i>The Portrait of a Lady</i></p> <p>CO-5. To learn to analyze the characters in the novel</p> <p>CO-6. To study <i>The Portrait of a Lady</i> as a Stream of Consciousness novel.</p>
<p><b>Unit IV: Popular British Novelist of the Twentieth Century</b></p> <p>Topics for Background Study: Cultural Hypocrisy, Political Fiction, Dystopian Novel, George Orwell's Allegory, Aldous Huxley</p> <p>Text for Detail Study: William Golding: <i>Lord of the Flies</i></p>	<p>CO-1. To learn and understand about Cultural Hypocrisy, Political Fiction, Dystopian Novel, George Orwell's Allegory, Aldous Huxley</p> <p>CO-2. To learn and understand biographical account and literary contribution of William Golding</p> <p>CO-3. To learn and understand about the narrative technique, central idea, theme and summary of the novel <i>Lord of the Flies</i></p> <p>CO-4. To learn to analyze the characters in the novel</p>
<p>Semester III: Paper I: Literary Criticism and Theory –I</p> <p>Unit I: Topic for Background: Classical Tragedy; Classical Comedy, Classical epic</p> <p>Text for detailed study:</p>	<p>CO-1. Understand the classical tragedy, classical Comedy and classical epic</p> <p>CO-2. Understand Aristotle's ideas about poetry, Tragedy, Tragic Hero, Catharsis and Comedy</p>

Aristotle's <i>Poetics</i>	
Unit II: Topics for Background: Romanticism; Industrial Revolution, Age of Enlightenment Texts for detailed study: Wordsworth: The Preface to the Lyrical Ballads Coleridge: Biographia Literaria	CO-1. Learn and understand Romanticism; Industrial Revolution, Age of Enlightenment CO-2. Understand the ideas of Wordsworth about poetry contained in The Preface to Lyrical Ballads CO-3. Understand the ideas of Coleridge about poetry in The Biographia Literaria
Unit III: Topics for Background: Victorian Criticism, Art for Life's sake, Pre-Raphaelite Movement Text for detailed study: Arnold: "The Function of Criticism at the Present Time"	CO-1. Learn and understand Victorian Criticism, Art for Life's sake, Pre-Raphaelite Movement CO-2. Understand the views of Matthew Arnold about definition of criticism and the function of criticism at the present time
Unit IV: Topics for Background: New Criticism, Deconstruction, Reader Response Theory Text for detailed study: T.S.Eliot: "Tradition and Individual Talent"	CO-1. Learn and understand New Criticism, Deconstruction, Reader Response Theory CO-2. Learn and understand the ideas of T.S. Eliot contained in the essay, <i>Tradition and Individual Talent</i>
Sem III: Paper II: Romantic and Victorian Poetry: Unit I: Topics for literary background: Concept of Romanticism, Influences of Romantic poets, Rousseau and his impact, Pantheism, William Blake, Preface to lyrical Ballads, Contribution of Southey Text for detailed study: William Wordsworth (Poems): "French Revolution", "Tintern Abbey" Samuel Coleridge: "Kubla Khan", "Christable" Part-I	CO-1. Learn and understand Concept of Romanticism, Influences of Romantic poets, Rousseau and his impact, Pantheism, William Blake, Preface to lyrical Ballads, Contribution of Southey CO-2. Learn and understand the central idea, theme and to make critical appreciation of Wordsworth's poems <i>French Revolution</i> and <i>Tintern Abbey</i> CO-3. Learn and understand the central idea, theme and to make critical appreciation of Samuel Coleridge's poems <i>Kubla Khan</i> and <i>Christable Part-I</i>
Unit II: Topics for Background: Hellenism, Keat's Escapism, Revolutionary spirit of Shelley, Contribution of Byron Texts for detailed study: Percy Shelley: "Ode to the West Wind", "To a Skylark" John Keats: "Ode to Nightingale", "Ode to Melancholy"	CO-1. Learn and understand the concepts of Hellenism, Keat's Escapism and revolutionary spirit of Shelley and contribution of Byron to the English Literature CO-2. Learn and understand the brief biographical account and literary contribution of Percy Shelley CO-3. Learn and understand the central idea, theme and to make critical appreciation of Percy Shelley's poems <i>Ode to the West Wind</i> and <i>To a Skylark</i> CO-4. Learn and understand the brief biographical account and literary contribution



	<p>of John Keats</p> <p>CO-5. Learn and understand the central idea, theme and to make critical appreciation of John Keats' poems <i>Ode to Nightingale</i> and <i>Ode to Melancholy</i></p>
<p>Unit III: Topics for Literary Background: Dramatic Monologue, Victorian Age and conflict, Tennyson's contribution to English Elegy, Elizabeth Barret Browning</p> <p>Text for detailed study:</p> <p>Alfred Tennyson, "The Lotus Eaters", "Ulysses"</p> <p>Robert Browning, "The Last Ride Together"</p>	<p>CO-1. Learn and understand Dramatic Monologue, Victorian Age and conflict, Tennyson's contribution to English Elegy and about literary contribution of Elizabeth Barret Browning</p> <p>CO-1. Learn and understand the brief biographical account and literary contribution of Alfred Tennyson</p> <p>CO-2. Learn and understand the central idea, theme and making critical appreciation of Tennyson's Poems <i>The Lotus Eaters</i> and <i>Ulysses</i></p> <p>CO-3. Learn and understand the brief biographical account and literary contribution of Robert Browning</p> <p>CO-4. Learn and understand the central idea, theme and making critical appreciation of Browning's Poem <i>The Last Ride Together</i></p>
<p>Unit IV: Topics for Literary Background: The Pre-Raphaelite Movement, The Oxford Movement, Arnold's "Culture and Anarchy"</p> <p>Text for detailed study:</p> <p>Matthew Arnold, "The Scholar Gypsy"</p> <p>D.G. Rossetti: "The Blessed Damozel"</p>	<p>CO-1. Learn and understand the key literary movements like The Pre-Raphaelite Movement, The Oxford Movement, Arnold's "Culture and Anarchy"</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Matthew Arnold</p> <p>CO-3. Learn and understand the central idea, theme and making critical appreciation of Matthew Arnold's Poem <i>The Scholar Gypsy</i></p> <p>CO-4. Learn and understand the the brief biographical account and literary contribution of D.G. Rossetti</p> <p>CO-5. Learn and understand the central idea, theme and making critical appreciation of D.G. Rossetti's Poem <i>The Blessed Damozel</i></p>

<p>Sem III: Paper III: Twentieth Century American Literature</p> <p>Unit I: Topics for Background: The romantic writers (Wordsworth, Emerson), The Postwar America, Disaffiliation, Beat Generation Text for detailed discussion;</p> <p>Robert Frost, “Stopping by Woods on a Snowy Evening”, “Mowing” Allen Ginsberg, “Howl”</p>	<p>CO-1. Learn and understand about the romantic writers like Wordsworth and Emerson.</p> <p>CO-2. Learn and understand the concepts The Postwar America Disaffiliation and Beat Generation</p> <p>CO-3. Learn and understand the brief biographical account and literary contribution of Robert Frost</p> <p>CO-4. Learn and understand the central idea, theme and making critical appreciation of Robert Frost’s poems <i>Stopping by Woods on a Snowy Evening</i> and <i>Mowing</i></p> <p>CO-5. Learn and understand the brief biographical account and literary contribution of the poet Allen Ginsberg</p> <p>CO-6. Learn and understand the central idea, theme and making critical appreciation of Allen Ginsberg’s poem <i>Howl</i></p>
<p>Unit II: Topics for Background: World War II, Lost Generation, Code Hero</p> <p>Text for detailed discussion: Hemingway, <i>The Old Man and the Sea</i></p>	<p>CO-1. Learn and understand about World War II, Lost Generation and Code Hero</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Hemingway</p> <p>CO-3. Learn and understand the central idea, main plot, summary and the major and minor characters of <i>The Old Man and the Sea</i></p>
<p>Unit III: (Fiction): Topics for Background: The Great Depression, Dust Bowls, Non-Teleological thinking, Corporate sector Text for detailed study:</p> <p>Steinbeck, <i>The Pearl</i></p>	<p>CO-1. Learn and understand the terms The Great Depression, Dust Bowls, Non-Teleological thinking, Corporate sector</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Steinbeck</p> <p>CO-3. Learn and understand the central idea, the plot of the novel <i>The Pearl</i></p> <p>CO-4. Learn and understand the major and minor characters of the novel <i>The Pearl</i></p>
<p>Unit IV: (Play): Topics for Background: Quest for Identity, Myth of Success, Problem-Play, Absurdity</p> <p>Text for detailed discussion: Arthur Miller, <i>Death of a Salesman</i></p>	<p>CO-1. Learn and understand the key concepts and ideas like Quest for Identity, Myth of Success, Problem-Play, Absurdity</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Arthur Miller</p> <p>CO-3. Learn and understand the central idea, plot and major and minor characters in ‘Death of a Salesman’</p>

<p>Sem III: Paper IV: English Language Teaching-I</p> <p>Unit I: Background Topics: Kothari Commission Report on English, Three Language Formula, English as a window on the world, English as a link language, Globalization and English</p> <p>Topics for detailed discussion: Status of English in India-role of English in education, employment and society-aims and objectives of English language teaching in India-challenges and opportunities in Teaching English in India</p>	<p>CO-1. Learn and understand about Kothari Commission Report on English, Three Language Formula, English as a window on the world, English as a link language, Globalization and English</p> <p>CO-2. Learn and understand in detail about Status of English in India-role of English in education, employment and society-aims and objectives of English language teaching in India-challenges and opportunities in Teaching English in India</p>
<p>Unit II: Background Topics: Role of mother tongue in learning a second language, Factors affecting second language learning, Interlanguage, Error analysis, Role of drill in second language learning</p> <p>Topics for detailed discussion: Major theories of language learning-key principles of Behaviourism: its advantages and limitations-key principles of cognitivism: its advantages and limitations-language acquisition and language learning</p>	<p>CO-1. Learn and understand the Role of mother tongue in learning a second language, Factors affecting second language learning, Interlanguage, Error analysis, Role of drill in second language learning</p> <p>CO-2. Learn and understand in detail Major theories of language learning-key principles of Behaviourism: its advantages and limitations-key principles of cognitivism: its advantages and limitations-language acquisition and language learning</p>
<p>Unit III: Background Topics: Approach, method and technique, Michael West, Harold Palmer, Bilingual method in India, the problem of the 'right' method</p> <p>Topics of detailed discussion: Grammar translation method, Direct method, Structural approach, Communicative language teaching</p>	<p>CO-1. Learn and understand Approach, method and technique, Michael West, Harold Palmer, Bilingual method in India, the problem of the 'right' method</p> <p>CO-2. Learn and understand in detail Grammar translation method, Direct method, Structural approach, Communicative language teaching</p>
<p>Unit IV: Background Topics: Importance of feedback in assessment, Difference between testing and assessment, Reliability and validity, Advantages and limitations of objective tests, Using tests as a teaching tool</p> <p>Topics of detailed discussion: Types of tests-characteristics of a good test-role of testing and assessment in teaching and learning in English-various techniques of testing-challenges and issues in English language testing in India classrooms</p>	<p>CO-1. Learn and understand Importance of feedback in assessment, Difference between testing and assessment, Reliability and validity, Advantages and limitations of objective tests, Using tests as a teaching tool</p> <p>CO-2. Learn and understand in detail Types of tests-characteristics of a good test-role of testing and assessment in teaching and learning in English-various techniques of testing-challenges and issues in English language testing in India classrooms</p>

<p>Sem IV: Paper I: Literary Criticism and Theory-II</p> <p>Unit I: Background Topics: Russian Formalism, Ferdinand de Saussure, Language as a symbolic system, Intertextuality, The notion of metalanguage</p> <p>Texts for detailed study: Jacobson: <i>Linguistics and Poetics</i></p> <p>Roland Barthes: <i>The Death of the Author</i></p>	<p>CO-1. Learn and understand about Russian Formalism, Ferdinand de Saussure, Language as a symbolic system, Intertextuality, The notion of metalanguage</p> <p>CO-2. Learn and understand Jakobson's text <i>Linguistics and Poetics</i> in detail</p> <p>CO-3. Learn and understand Roland Barthes's text <i>The Death of the Author</i> in detail</p>
<p>Unit II: Background Topics: Karl Marx and Frederick Engels, The Russian Revolution, Friedrich Nietzsche, Deconstruction, Logocentrism</p> <p>Text for detailed Study:</p> <p>Edmund Wilson: <i>Marxism and Literature</i> Jack Derrida: <i>Structure, Sign and Play in the discourse of Human Sciences</i></p>	<p>CO-1. Learn and understand about Karl Marx and Frederick Engels, The Russian Revolution, Friedrich Nietzsche, Deconstruction, Logocentrism</p> <p>CO-2. Learn and understand in detail Edmund Wilson's <i>Marxism and Literature</i></p> <p>CO-3. Learn and understand in detail Jack Derrida's text <i>Structure, Sign and Play in the discourse of Human Sciences</i></p>
<p>Unit III:</p> <p>Background Topics: Psychoanalysis, Dream Analysis, Simone de Beauvoir, Suffragette Movement, Feminism, Virginia Woolf Texts for detailed study:</p> <p>Lionel Trilling: <i>Freud and Literature</i> Cora Kaplan; <i>Literature and Gender</i></p>	<p>CO-1. Learn and understand about Psychoanalysis, Dream Analysis, Simone de Beauvoir, Suffragette Movement, Feminism and Virginia Woolf</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Lionel Trilling</p> <p>CO-3. Learn and understand in detail Lionel Trilling's text <i>Freud and Literature</i></p> <p>CO-4. Learn and understand the brief biographical account and literary contribution of Cora Kaplan</p> <p>CO-5. Learn and understand in detail about Cora Kaplan's text <i>Literature and Gender</i></p>
<p>Unit IV: Background Topics: Homi Bhabha, Franz Fanon, Subaltern Studies, Consumerism, Culture Studies</p> <p>Texts for detailed study:</p> <p>Edward Said: <i>Crisis (in Orientalism)</i> John Fiske: <i>Television Culture</i></p>	<p>CO-1. Learn and understand about Homi Bhabha, Franz Fanon, Subaltern Studies, Consumerism and Culture Studies</p> <p>Co-2. Learn and understand the brief biographical account and literary contribution of Edward Said</p> <p>CO-2. Learn and understand in detail Edward Said's text <i>Crisis (in Orientalism)</i></p> <p>CO-3. Learn and understand the brief biographical account and literary contribution of John Fiske</p> <p>CO-4. Learn and understand in detail John Fiske's text <i>Television Culture</i></p>

<p>Sem IV: Paper II: Twentieth Century Poetry</p> <p>Unit I: Topics for Background: Modernism, The Irish Revival, French Symbolism, Ezra Pound, Georgian Poetry</p> <p>Texts for detailed study:</p> <p>T.S. Eliot, "The Waste Land"</p> <p>W.B. Yeats- 'The Dialogue Between the Self and Soul', "Second Coming", "Leda and the Swan"</p>	<p>CO-1. Learn and understand about Modernism, The Irish Revival, French Symbolism, Ezra Pound and Georgian Poetry</p> <p>CO-2. Learn and understand about the brief biographical account and literary contribution of T.S. Eliot</p> <p>CO-3. Learn and understand the central idea, the theme, the characters and symbols in T.S. Eliot's poem 'The Waste Land'</p> <p>CO-4. Learn and understand the brief biographical account and literary contribution of W.B. Yeats</p> <p>CO-5. Learn and understand the central idea, the theme, the characters and symbols in W.B. Yeats' poems <i>The Dialogue Between the Self and Soul</i>, <i>Second Coming</i> and <i>Leda and the Swan</i></p>
<p>Unit II: Topics for Background: British Imperialism, Welsh Poetry, Depression decades, Trench Poetry, MacSpaunday Group, Neo-romanticism</p> <p>Texts for detailed study:</p> <p>Dylan Thomas: Do not go Gentle into that Good night, Refusal to Mourn the Death by Fire of a child in London, 'After the Funeral'</p> <p>W.H. Auden: 'Petition', 'Paysage Moralise', 'The Unknown Citizen', 'Funeral Blues'</p>	<p>CO-1. Learn and understand about British Imperialism, Welsh Poetry, Depression decades, Trench Poetry, MacSpaunday Group and Neo-romanticism</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Dylan Thomas</p> <p>CO-3. Learn and understand the central idea, the theme, the characters and symbols in Dylan Thomas' poems Do not go Gentle into that Good night, Refusal to Mourn the Death by Fire of a child in London and 'After the Funeral'</p> <p>CO-4. Learn and understand the brief biographical account and literary contribution of W.H. Auden</p> <p>CO-5. Learn and understand the central idea, the theme, the characters and symbols in W.H. Auden's poems <i>Petition</i>, <i>Paysage Moralise</i>, <i>The Unknown Citizen</i> and <i>Funeral Blues</i></p>

<p>Unit III: Topics for Literary Background: Surrealism, New Apocalyptic, Movement Poets, The Group Poets, Seamus Heaney- Poet of Northern Ireland</p> <p>Texts/Poets for detailed study: Philip Larkin-The Whitsun Wedding, Toads Revisited, The Explosion, Ambulances Seamus Heaney- Requiem for the Croppies, Exposure, Bogland, Personal Helicon</p>	<p>CO-1. Learn and understand about Surrealism, New Apocalyptic, Movement Poets, The Group Poets, Seamus Heaney-Poet of Northern Ireland</p> <p>CO-2. Learn and understand the brief biographical account and literary contribution of Philip Larkin</p> <p>CO-3. Learn and understand the central idea, the theme, the characters and symbols in Philip Larkin's poems <i>The Whitsun Wedding, Toads Revisited, The Explosion</i> and <i>Ambulances</i></p> <p>CO-3. Learn and understand the brief biographical account and literary contribution of Seamus Heaney</p> <p>CO-4. Learn and understand the central idea, the theme and symbols in Seamus Heaney's poems <i>Requiem for the Croppies, Exposure, Bogland</i> and <i>Personal Helicon</i></p>
<p>Sem IV: Paper III: Indian Writing in English-II</p> <p>Unit I: Background Topics: Dom Moraes, A.K.Ramanujan, Jayant Mahapatra, Eunice D'Souza, Adil Jussawala</p> <p>Texts for detailed discussion: Nissim Ezekiel: Case Study, Poet, Lover, Birdwatcher, Background Casually Arun Kolatkar: (From Jejuri) Heart of Ruin, The Priest's Son, An Old Woman</p>	<p>CO-1. Learn and understand about Dom Moraes, A.K.Ramanujan, Jayant Mahapatra, Eunice D'Souza and Adil Jussawala</p> <p>CO-2. Learn understand the brief biographical account and literary contribution of Nissim Ezekiel</p> <p>CO-3. Learn and understand the central idea, the theme Nissim Ezekiel's poems <i>Case Study, Poet, Lover, Birdwatcher</i> Case Study, Poet, Lover, Birdwatcher and <i>Background Casually</i></p> <p>CO-4. Learn understand the brief biographical account and literary contribution of Arun Kolatkar</p> <p>CO-5. Learn and understand the central idea, the theme Arun Kolatkar's poems (From Jejuri) <i>Heart of Ruin, The Priest's Son, An Old Woman</i></p>
<p>Unit II: Background Topics: Shashi Deshpande, Gita Mehta, Manju Kapur, Namita Gokhale, Anita Nair</p> <p>Text for detailed discussion: Anita Desai: <i>Cry the Peacock</i></p>	<p>CO-1. Learn and understand about Indian English novelists Shashi Deshpande, Gita Mehta, Manju Kapur, Namita Gokhale, and Anita Nair</p> <p>CO-2. Learn understand the brief biographical account and literary contribution of Anita Desai</p> <p>CO-3. Learn and understand the central idea, the theme, plot, major and minor characters in the novel <i>Cry the Peacock</i></p>

Unit III: Background Topics: Salman Rushdie, Arundhati Roy, Vikram Seth, Rohinton Mistry, Kiran Desai, Aravind Adiga Text for detailed discussion: Amitav Ghosh: <i>The Hungry Tide</i>	CO-1. Learn and understand about Salman Rushdie, Arundhati Roy, Vikram Seth, Rohinton Mistry, Kiran Desai and Aravind Adiga CO-2. Learn understand the brief biographical account and literary contribution of Amitav Ghosh CO-3. Learn and understand the central idea, the theme, plot, major and minor characters in the novel
Unit IV: Background Topics: Mohan Rakesh, Badal Sirkar, Vijay Tendulkar, Girish Karnad Texts for detailed discussion: Mahesh Dattani: <i>Dance Like a Man</i>	CO-1. Learn and understand about Mohan Rakesh, Badal Sirkar, Vijay Tendulkar and Girish Karnad CO-2. Learn understand the brief biographical account and literary contribution of Mahesh Dattani CO-3. Learn and understand about the outline story, plot and major and minor characters in the Play <i>Dance Like a Man</i>
Sem IV: Paper IV: English Language Teaching-II Unit I: Background Topics; Difference between written and spoken English, Guided versus free composition, Issues in teaching English pronunciation, Accuracy and fluency, Skimming and Scanning Topics for detailed discussion: Teaching of listening, teaching of speaking, teaching of reading, teaching of writing	CO-1. Learn and understand about Difference between written and spoken English, guided versus free composition, Issues in teaching English pronunciation, Accuracy and fluency, Skimming and Scanning CO-2. Learn and understand in detail Teaching of listening, teaching of speaking, teaching of reading, teaching of writing
Unit II: Background Topics: Lewis's lexical approach, Advantages and limitations of teaching grammar formally, User's, teacher's and linguist's grammar, Role of dictionaries in learning a language, Note taking and note making Topics of detailed discussion: Teaching of grammar, teaching of vocabulary, teaching of study skills	CO-1. Learn and understand about Lewis's lexical approach, Advantages and limitations of teaching grammar formally, User's, teacher's and linguist's grammar, Role of dictionaries in learning a language, Note taking and note making CO-2. Learn and understand in detail Teaching of grammar, teaching of vocabulary, teaching of study skills
Unit III: Background Topics; Aims of teaching literature in English Classrooms, Role of culture in studying literature, Difference between teaching language and teaching literature, Problems of teaching English literature in Indian Classrooms, Testing literary skills Topics for detailed discussion: Teaching of prose, teaching of poetry, teaching of drama	CO-1. Learn and understand Aims of teaching literature in English Classrooms, Role of culture in studying literature, Difference between teaching language and teaching literature, Problems of teaching English literature in Indian Classrooms, Testing literary skills CO-2. Learn and understand in detail Teaching of prose, teaching of poetry, teaching of drama

Unit IV: Background Topics: Role of the internet in language teaching, Virtual classrooms and virtual learning, Advantages and limitations of computers in language teaching, Use of multimedia in teaching English, Challenges in using technology in Indian classrooms Topics for detailed discussion: Lesson Planning, traditional teaching aids and tools (blackboard, charts, models, overhead projectors), modern teaching aids and tools (computers, language labs, interactive electronic boards, etc) , role of ICT in language learning and teaching	CO-1. Learn and understand about Role of the internet in language teaching, Virtual classrooms and virtual learning, Advantages and limitations of computers in language teaching, Use of multimedia in teaching English, Challenges in using technology in Indian classrooms CO-2. Learn and understand in detail Lesson Planning, traditional teaching aids and tools (blackboard, charts, models, overhead projectors), modern teaching aids and tools (computers, language labs, interactive electronic boards, etc) , role of ICT in language learning and teaching
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**Subject:** Commerce (B. Com.)

**Program Outcome:**

PO-1 : Students will be ready for employment in functional areas like accounting , banking, communication, taxation, economics insurance and corporate law.

PO - 2 : An attitude of working effectively and efficiently in a business environment..PO -3 : Learners will gain knowledge of various disciplines of commerce , business ,accounting economics and finance ,auditing and marketing.

PO -4 : Create an awareness of the impact of commerce on the society, and development outside the community.

PO - 5 : Adapt to sustain in emerging era and constantly upgrade skills towards independent and lifelong learning.

**Program Specific Outcome:**

PSO - 1 : Students acquire skills to work as tax consultant, audit assistant And other financial supporting services.

PSO - 2 Students have choices to pursue professional courses such as CA, M.COM, MBA, CMA, ICWA, CS etc..

PSO - 3 : Students are able to play roles of businessmen, entrepreneur, manager, consultant which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

PSO - 4: Will acquire a job efficiently in diverse fields such as, Education, Banking, Public Services, Business etc.

Course	Outcome:
<b>B.COM –I SEMESTER I</b>	



<b>Business Organization</b>	<p>It explains the role and qualities of the entrepreneur</p> <p>It explains how to prepare simple business plan</p> <p>It provides knowledge of forums of business units</p> <p>It provides knowledge of business social responsibilities of business.</p> <p>It provides knowledge of ethical and unethical business practice.</p>
<b>Company Law</b>	<p>Student will get thorough knowledge company law prevailing in firms and other allied subjects.</p> <p>Student will become aware of the legal aspects of business.</p> <p>Raise his over all interest in laws prevalent in the country relevant to job</p> <p>Analyze and apply contemporary ethics and Governance issues in a business context.</p> <p>Highlights the Corporate social responsibility and their applications.</p> <p>Apply corporate governance perspective for business practices.</p>
<b>Financial Accounting I</b>	<p>Acquire conceptual knowledge of basics of Accounting.</p> <p>Identify events that need to be recorded in the accounting records</p> <p>Develop the skill of recording financial transactions.</p> <p>Describe the role of accounting information and its limitations.</p> <p>Determine the useful life and value of the depreciable assets.</p>
<b>Business Economics I</b>	<p>Learn economics in terms of business.</p> <p>Describe the nature of economics in identify with the issue of scarcity.</p> <p>Perform supply demand analysis to analyze the impact of economic events on markets.</p> <p>Understand the dynamics of how the markets work.</p> <p>Use economic analysis to evaluate controversial issues &amp; policies</p>
<b>B.COM –I SEMESTER II</b>	

<b>Business Management</b>	<p>It provides knowledge of taking business decisions.</p> <p>Its provides knowledge of leadership skills and styles to maximize employees' productivity and efficiency</p> <p>Its provides knowledge of total quality management</p> <p>It explains how business develop strategy</p> <p>It helps how to manage stress at workplace</p>
<b>Secretarial Practice</b>	<p>Student is trained on professional skills, professional knowledge and employability skill.</p> <p>Students can demonstrate technical competence in domestic and legal with the help of disciplines.</p> <p>Students get the knowledge of the procedure of incorporation, appointment of the directors and codifications of DIN.</p> <p>Analyse the part of company meetings and other procedures required for company meetings such as voting, resolutions, Circular and other statements.</p> <p>Students get acquainted with the report writing skill as well as E-governance and E-filing system.</p> <p>Procedure of appointment of all top personnel along with all provisions are concentrated by the students</p>
<b>Statistics and Business Mathematics</b>	<p>To introduce the basic concepts in Finance and Business Mathematics.</p> <p>To familiar the students with applications of statistics and Mathematics in Business.</p> <p>To acquaint students with some basic concepts in Statistics.</p> <p>To learn some elementary statistical methods for analysis of data.</p> <p>The main outcome of this subject is that the students are able to analyze the data by using some elementary statistical method</p>

<b>Business Economics II</b>	<p>Learn economics in term of business</p> <p>Describe the nature of economics in identify with the issue of scarcity</p> <p>Perform supply demand analysis to analyze the impact of economic events on markets.</p> <p>Understand the dynamics of how the markets work</p> <p>Use economic analysis to evaluate controversial issues &amp; policies.</p>
<b>B.COM –II SEMESTER III</b>	
<b>Business Communication and management</b>	<p>Demonstrate written communication skills appropriate in business situations.</p> <p>Students will create and effectively deliver oral presentations.</p> <p>Students will demonstrate effective interpersonal skills and the ability to work effectively.</p> <p>Students will demonstrate and understand the global perspective of business.</p> <p>Students will have the ability to apply critical thinking skills in an ethical content</p>
<b>Business Law</b>	<p>It enlightens the knowledge of Business Law like how to form and run a business</p> <p>It provides knowledge of contract act and explains how enter into any contract safely.</p> <p>It explains valid contract It provides knowledge of law relating to partnership, procedure of registration.</p> <p>It enlightens the knowledge of consumer protection act</p> <p>It provides knowledge of laws relating to negotiate instruments</p>
<b>Financial Accounting II</b>	<p>Floation of Joint Stock Companies and their capital structure.</p> <p>Accounting for issue and forfeiture of shares, re-issue of forfeited shares.</p> <p>Issue and Redemption of Debentures.</p> <p>Company Introduction and Share Capital.</p> <p>Issue of Shares and its Accounting</p>

<b>Monetary Economics I</b>	<p>The importance of monetary economics has been increasing in recent times due to the volatile nature of global economy. Course attempts to explicate and document the theoretical aspects of Money.</p> <p>Fiscal and monetary policies and the role of financial institution in Economic growth.</p> <p>In the monetary economics II, students will learn functions of commercial bank, role of commercial bank in developing economies, process of credit creation by commercial bank and limitation of commercial bank.</p> <p>In the monetary economics, students will learn various concepts of ATM, core Banking, Credit Cards, debit cards, e- purse, laser cards ECS and Electric fund transfer.</p> <p>Students will also learn the bank and customers relationship and services.</p> <p>Students learn various concepts of central bank, SLR, CRR.</p>
Entrepreneurial Development -	<p>After completion of this course students will understand-</p> <ol style="list-style-type: none"> <li>1. Institutions Assisting Entrepreneurs - District Industries Centres, State Small Industries Corporations, Small Industries Services Institute, Small Industries Development Corporations, Khadi and Village Industries Commission.</li> <li>2. Commercial Banks and Entrepreneurial Development - State Bank of India, Punjab National Bank, Indian Bank, Bank of Baroda, Bank of India, Canara Bank, Syndicate Bank, Export Import Bank of India (Exim Bank.)</li> <li>3. Concept of Project and classification, identification and selection of Project and Project report.</li> <li>4. Ratio Analysis, Break Even Analysis, Profitability Analysis</li> </ol>
<b>B.COM – II SEMESTER IV</b>	

<b>Income Tax</b>	<p>Students will be able to identify the technical terms related to direct taxation.</p> <p>Students will be able to determine the residential status of an assessee and thus should be able to compute the taxable income of assessee with different residential status.</p> <p>Students will be able to compute income from salaries, house property and other sources.</p> <p>Students will be able to understand the various benefits and deduction under chapter VI A of the income tax act 1961. Which will be reduced from the gross total income of the assessee.</p> <p>Students will be able to compute the net total income and the total tax liability of an individual assessee considering the income from all heads of income and the deduction under chapter VI A of income tax act 1961</p>
<b>Monetary Economics II</b>	<p>The importance of monetary economics has been increasing in recent times due to the volatile nature of global economy and the role of monetary transmission in the domestic and global Economies framework.</p> <p>Course attempts to Explicate and document the theoretical aspects of Money, Fiscal and monetary policies and the role of financial institution in Economic growth.</p> <p>In the monetary economics II, students will learn functions of commercial bank, role of commercial bank in developing economies, process of credit creation by commercial bank and limitation of commercial bank.</p> <p>In the monetary economics, students will learn various concepts of ATM, core Banking, Credit Cards, debit cards, e- purse, laser cards ECS and Electric fund transfer.</p> <p>Students will also learn the bank and customers relationship and services</p> <p>Students learn various concepts of central bank, SLR, CRR</p>

<b>Financial accounting III</b>	<p>To understand the corporate restructuring as per Accounting standard 14 i.e Amalgamation &amp; absorption of companies.</p> <p>Accounting procedure of Re-organization and Re construction of companies.</p> <p>Preparation of Final account in case of public utility concern such as, water supply and gas companies.</p> <p>Valuation of share by different method</p>
<b>Skill Development</b>	<p>Understand &amp; Practice soft skills working with computers &amp; communicate with required clarity.</p> <p>Demonstrate knowledge of concept &amp; principles of basic practical operations.</p> <p>Recognize &amp; comply safe working practices environment regulations.</p> <p>Develop proficiency skills in basic knowledge of organizations</p>
<b>Entrepreneurial Development</b>	<p>After completion of this course students will understand -</p> <ol style="list-style-type: none"> <li>1. Definitions, Characteristics, Relationship between Small and Large units and role of Small Enterprises in Economic Development.</li> <li>2. Selection of types of Organisation - for example : Sole Proprietorship, Partnership, Joint Stock Company.</li> <li>3. Major provisions of Income Tax, Sales Tax, Patent Rules, Excise Rules, Factory Act and Payment of Wages act.</li> <li>4. Concept of Ecology and Environment - Factors contributing to Air, Water, Noise pollution.</li> </ol>
<b>B.COM III SEMESTER – V</b>	
<b>Financial accounting IV</b>	<p>To understand the corporate restructuring as per Accounting standard 14 i.e Amalgamation &amp; absorption of companies.</p> <p>Accounting procedure of Re-organization and Re construction of companies.</p> <p>Preparation of Final account in case of public utility concern such as water supply and gas companies.</p> <p>Valuation of share by different method</p>

<b>Cost Accounting</b>	<p>Students will able to analyze implications of cost in managerial decisions.</p> <p>Students will able to understand process costing</p> <p>Students will able to understand standard costing and analysis of deviation.</p> <p>Students will able to understand contract costing for building and construction work.</p> <p>Students will able to understand various methods and techniques cost management</p>
<b>Indian Economics I</b>	<p>In the Indian Economics I, students will analyze the progress of the Indian Economy under the various Five year plan From (1951 to 2017)</p> <p>Indian Economics deals with the features of Indian economy, policy concepts of economic growth &amp; economic development and availability of various natural resources.</p> <ul style="list-style-type: none"> <li>Students will analyze the problems of population explosion</li> </ul>
<b>Elective I :</b>	
<b>Marketing Management</b>	<p>Students will be able to evaluate the significance of marketing .</p> <p>Students will analyze the relationship between marketing management and other impacts on business.</p> <p>Identify the role and significance of various elements of marketing mix.</p> <p>To evaluate the role and relevance of marketing organizations in current marketing conditions.</p> <p>gets acquainted with the marketing concept in global environment and its relevance</p>

<b>Computerized Accounting</b>	<p>Students will demonstrate progressive cognitive development of knowledge, comprehension and application of rational economic decision making using accounting discipline language, methods of classification, standards and computational procedures in all courses.</p> <p>Upon successful completion of computerized accounting applications, the student will be able to demonstrate an understanding of accounting theory apply accounting procedures using microcomputer software.</p> <p>Students will be ready for employment in functional areas like accounting, taxation, banking, insurance and corporate law. An attitude for working effectively and efficiently in a business environment. Learners will gain knowledge of various disciplines of commerce, business accounting economics and finance, auditing and marketing.</p> <p>Chart of accounting is a tree view of the names of the accounts (ledgers and groups) that a company requires to manage its accounts.</p> <p>ERP is a system which can be modified according to the need of the user and in legal manner.</p>
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	Inventory management is a process of ordering, storing and using inventories. This stock management includes generating the lead on raw materials, components and finished products, alongside warehousing and processing of such items in the company.
<b>Entrepreneurship Development -I</b>	Students understand the types of documents and types of finance. He learns about franchising and financing. He gets cleared with the concept of marketing, accounting, Inventory management, Human resource management and total quality management
<b>Elective II :</b>	
<b>Business Finance</b>	Cover the conceptual foundation of business finance with sources of business finance. Deals with Project financing inventory management & leverage. Describe the management of working capital. Focus on debtors and creditors management & venture financing
<b>Auditing</b>	In the Auditing, subject Students will learn basic of Auditing. In the auditing, students will learn the difference between Audit, Auditor and Auditing. Students will learn types of Audit, Internal control and Internal Audit system. In this subject, students will analyze the process and the working of Audit, Audit Documentation, Audit evidence and Audit Planning. Standard of Auditing, Vouching & verification and verification of Assets & Liabilities. <ul style="list-style-type: none"> <li>• In the Auditing, Students will aware the difference between Company Auditor &amp; Audit and Audit report &amp; Certificates</li> </ul>
<b>Management Process</b>	Students understands the concepts related to business

	<p>Demonstrate the roles, skill and function of management.</p> <p>Analyze the effective application of management process and solve organizational problems and develop optimal managerial decisions</p> <p>Understand the complexities associated with management of human resources in the organization and integrate the learning in handling these complexities.</p>
Web Designing using HTML (WD)	<p>Students understand how the web works with these web design and development tools. Are your students interested in learning HTML</p> <p>HTML, the language used to author web pages, and provides a little background regarding its history and the reason it is used</p> <p>HTML documents are rendered by a web browser (the application you are using to read this page). HTML rendering hides all the tags, and changes the display of the rest of the content based on what those tags say it should look like.</p> <p>HTML is essentially text content with tags that are used to specify the meaning of that content within the document and the relationship of each piece of content to the others.</p>
<b>B.COM III SEMESTER – VI</b>	
<b>Financial Accounting V</b>	<p>To introduce and develop knowledge of holding companies accounts.</p> <p>Keep them aware about accounts of insurance companies.</p> <p>To know the idea of buying &amp; selling of securities through investment account.</p> <p>To provide knowledge about Profit prior to incorporation &amp; its accounting treatment</p>
<b>Management Accounting</b>	<p>Students can apply Management Accounting &amp; its objectives in facilitating decision making.</p> <p>Analyze cost volume profit techniques to determine optimal managerial decisions.</p> <p>Calculate various accounting ratios,</p>

	<p>reports &amp; relevant data.</p> <p>Prepare budget &amp; demonstrate an understanding of the relationship between elements.</p> <p>Prepare cash flow &amp; fund flow statement this helps in planning for intermediate and long term finances</p>
<b>Indian Economics II</b>	<p>In the Indian Economics II, students will analyze the role and problem of Indian agriculture, the progress of Land reform and green revolution. It also makes a critical analysis of the agriculture price policy and crop insurance scheme in India.</p> <p>Knowledge of Industrial development with a special reference to small and cottage scale units.</p> <p>The role of public and private sectors in the changing Industrial scenario of the Indian economy along with the latest trends and the developments of the Industrial financial institutions.</p> <p>Knowledge of service sector in the current scenario.</p> <p>With the use of Indian economics students will learn glossary of the Indian Foreign Trade. It deals with the changes in the direction and composition of India's imports and exports since Independence.</p> <p>Indian Economics includes role of Foreign aid and capital with liberalization in India as a backdrop</p>
<b>Elective I:</b>	
<b>Human resource management</b>	<p>Develop the understanding of the concept of human resource management &amp; to understand its relevance in organizations.</p> <p>Develop necessary skill set for application of various HR issues.</p> <p>Analyze the strategic issues &amp; strategic requirement to select and develop manpower resources.</p> <p>Integrate the knowledge of HR concepts to take correct business decisions</p>
<b>Indirect Tax</b>	Students should be able to understand

	<p>various terms related to goods and service tax (GST).</p> <p>Students should be able to understand the difference between forward charge and reverse charge mechanism. Also, to understand difference between composite and mixed supply.</p> <p>Students will be able to determine the time place and value of supply.</p> <p>Students will be able to know the content and format for various document like tax invoice, bill of supply, debit note, credit note etc.</p> <p>Students will be able to compute CGST, SGST and IGST payable after considering the eligible input tax credit.</p> <p>Students will be able to determine whether a person is required to obtain registration under GST law.</p>
<b>Entrepreneurship development -II</b>	<p>Students understand the meaning of incentives, subsidies and other related terms.</p> <p>Knowledge of cyberspace and internet is acquired by the students.</p> <p>Ideas regarding government policies and schemes for setting up various types of industries. Gets cleared.</p>
<b>Elective II:</b>	
<b>Business Finance II</b>	<p>Provide a conceptual understanding of Finance &amp; Financial market in India.</p> <p>To develop skills in students to analyze &amp; interpret financial statements from viewpoint of liquidity, solvency, profitability and cash flow of entities &amp; apply the same for decision making.</p> <p>Focus on various decision of the firm like Investment, financing &amp; dividend general.</p> <p>Provide knowledge about various capital budgeting decision</p>
<b>Industrial Law</b>	<p>To make students aware about Various Laws relating to Industries</p> <p>In the Indian Factories act-1948, Students</p>

	<p>will aware about Important Definitions, Object &amp; Scope, Provision regarding workers Health, Provision regarding Safety of Workers, Rules regarding Labor Welfare, Provision regarding Adults, women workers and Young Workers.</p> <p>In the Industrial Dispute Act-1947, students will learn about Concept, Objectives and Significance, Authorities for settlement of Industrial Dispute-their work procedure &amp; Powers. It also Concept and Distinction between Strike, Lockouts, Layoff &amp; Retrenchments</p> <p>In the Law relating to wages act, students will aware the minimum wages act 1948 and payment of wages act 1936 in detail.</p> <p>In the Law relating to Bonus and Gratuity, students will aware scope and application of Payment of Bonus act 1965 and Payment of gratuity act 1972 in detail.</p> <p>In the Law Relating to Employee State Insurance and Provident Fund, students will learn Object, Scope and Application of The Employee's State Insurance Act 1948 and Employee's Provident Fund &amp; Miscellaneous Provision Act 1952</p> <p>In the Law Relating to Workmen Compensation and Maternity Benefits, Students will aware the Object, Scope and Application of Workmen Compensation Act-1923 and Maternity Benefits Act 1961</p> <p>In the Industrial Law, Students will aware the Object Scope and Application of Child Labour (Prohibition and Regulation) Act 1986, Trade Union Act 1926, Contract Labour Act and International Labour Organization(ILO) in detail</p> <p>In this subject, students will aware object and scope of Intellectual Property Rights Law in India, Patent, Copyrights, Trademark and Industrial Design. It also</p>
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	<p>analyze the Procedure for registration of Trademarks and Copyrights.</p> <p>In the Industrial Law, Students will aware the law of Environment Protection Act 1986 to protect the nature, Processes&amp; Operation, offense and Penalties in detail</p>
<b>Advanced Statistics</b>	<p>Students will be able to do arithmetic mean, median, harmonic mean.</p> <p>Calculation of correlation, regressionanalysis index number and time series analysis.</p> <p>Understands statistical testing and their applications.</p> <p>Students understand the application of probability theory.</p>
<b>Introduction to Visual Basic (IVB)</b>	<p>Visual Basic is a Windows programming language whose functionis to help the users build their own special-purpose Windows applications.The current version of VB will be used to implement</p> <p>To prepare students to acquire front end development skills using Visual Basic. The students can be able to build the front end application using the latest industry required technology.</p> <p>VB (Visual Basic) is a programming language focused on the video interface component. With graphics and functional components implemented, theprogrammer is able to bring and use their components to achieve the desired application in a relatively short time.</p> <p>The student will use Visual Basic.Net to build Windows applications using structured and object-based programming techniques</p>

**Subject: Commerce (M. Com.)**

Course	Outcome:
<b>Semester-1</b>	
<b>1. Advanced financial Accounting</b>	The students shall be able to identify and describe different Accounting Standards

	<p>useful for accounting transactions.</p> <p>The students shall be able read and analyse consolidated financial statements including accounting policies and other information disclosures.</p> <p>The aim of this subject is to provide an understanding of the basic framework of the Indian Financial System.</p> <p>The students will be able to analyse and appreciate the role of the apex banker and other regulatory bodies.</p>
<p><b>2. Indian financial system-</b></p>	<ul style="list-style-type: none"> <li>• The aim of this subject is to provide an understanding of the basic framework of the Indian financial system.</li> <li>• Once students understand the financial environment they will be able to analyse and appreciate the role of the apex banker and other regulatory bodies.</li> <li>• The first unit comprises the structure of the financial system, pre and post reform scenario in the financial market, emphasizing on money markets and monetary policies.</li> <li>• The second unit students will understand the banking system, emphasizing on bank deposit and advances and bank investments.</li> <li>• Third unit explains the structure of the Indian industry adequately covering various facts of life and general insurance and the role of IRDA in governing the industry.</li> <li>• In the fourth unit students understand the capital market focusing on the way finance is raised by companies in the primary market and the dealings on stock exchanges like BSE, NSE, OTCEI, ICSEI. Students will analyze the Mutual fund industry.</li> </ul>
<p><b>3. Managerial Economics-</b></p>	<ul style="list-style-type: none"> <li>• Students will be able to develop analytical skills related to economics theories in business context.</li> <li>• Students will be able to develop business stimulation ability.</li> </ul> <p>Students will be implementing the perfect economic tools and use techniques</p>

	for business decision-making.
<b>4. Marketing management-</b>	<p>To know the modern marketing concepts and evaluation</p> <p>To study the consumer behaviour</p> <p>To analyse the product and price</p> <p>To analyse the promotion mix</p> <p>To explore the place mix and strategies decisions</p>
<b>Semester-II</b>	
<b>1. Research Methodology-</b>	<ul style="list-style-type: none"> <li>• Introducing student to the basic concept used in research and to the scientific social research method and their approach</li> <li>• Student will develop understanding on various kinds of research object doing research projects</li> </ul> <p>Student will be familiarized with basic research design and sampling</p> <ul style="list-style-type: none"> <li>• Student will be able to conduct research work and formulate research synopsis and reports</li> </ul> <p>Students will have basic knowledge on qualitative research technique</p>
<b>2. Advanced Cost Accounting</b>	<ul style="list-style-type: none"> <li>• Recognize and apply appropriate theories, principles and concepts relevant to cost accounting.</li> <li>• Exercise appropriate judgment in selecting and presenting information using various methods relevant to cost accounting.</li> <li>• Plan, design and execute practical activities using techniques and procedures appropriate to cost accounting.</li> <li>• Respond to change within the external &amp; internal business environment and its effect on cost accounting.</li> <li>• Develop appropriate effective written and oral communication skills relevant to cost accounting.</li> <li>• Use organization skills relevant to the cost accounting system both individually and in a group situation.</li> <li>• Solve problem relevant to cost accounting system using ideas &amp; techniques some of which are at the forefront of the discipline</li> </ul>
<b>3. Co-operation</b>	In the unit first students will understand



	<p>the principles and importance of cooperation, cooperative movement in India and achievement of cooperative movement in social and economic spheres.</p> <ul style="list-style-type: none"> <li>• Unit two deals with rural cooperative credit institutions, short &amp; long term credit Structure, urban cooperative banks, NABARD &amp; cooperative banks and audit of cooperative banks.</li> <li>• Unit III deals with rural artisans &amp; cooperatives, cooperative agricultural production &amp; marketing in India, People's participation in rural development and community development programmes in India.</li> <li>• In the fourth unit students will understand the glossary of Globalization &amp; Cooperation. It deals with effects of globalization on cooperative movements, Challenges &amp; opportunities before cooperative under globalization, reengineer of cooperative to meet challenges of globalization and problems and prospects of the cooperative movement in India under Globalization</li> </ul>
<b>4. Human Resource Management-</b>	<p>Students know the basic of human resource management</p> <p>Students analyse human resource planning</p> <ul style="list-style-type: none"> <li>• Students get familiarized with the recruitment and selection process.</li> </ul> <p>Students study the training methods and career development plan</p> <ul style="list-style-type: none"> <li>• Students gets acquainted with the methods of wage and salary administration-compensation plan</li> </ul>
<b>Semester-III</b>	
<b>1. Advanced Management Accounting.</b>	<ul style="list-style-type: none"> <li>• Students will be able to understand advanced knowledge of management accounting</li> </ul> <p>Students will be preparing for their career in the accounting field.</p> <ul style="list-style-type: none"> <li>• Student will be able to understand knowledge of management information system</li> </ul>

	<p>They will be learning about marginal costing concept and its implementation Also they would learn about difference between fund flow and cash flow analysis</p>
<b>2. Statistical Techniques</b>	<p>Students update the basics of statistics and its application</p> <ul style="list-style-type: none"> <li>• Students get familiarized with the methods of correlations and regression analysis.</li> <li>• Students get conversant with the law of probability.</li> <li>• Students adapt the sampling methods and test of significance.</li> <li>• Students study the advanced application oriented tests.</li> </ul>
<b>3. Direct Tax</b>	<ul style="list-style-type: none"> <li>• Students will be able to understand about the submission of Income Tax Return and Tax deducted at sources</li> <li>• Students will study about the Income from Business and Profession with calculations of depreciations methods. Also study about the expenditure on scientific research theory.</li> <li>• Students can understand the Income under the head capital gain with cost of indexation, cost of improvement and valuation of capital assets and its exemptions.</li> <li>• Students will study clubbing of income Set –Off and Carry Forward of losses. Also understand the deduction u/s 80 chapter VI</li> </ul> <p>Students will compute the tax liability for individuals and companies.</p>
<b>4. Computer Application in Business</b>	<ul style="list-style-type: none"> <li>• Student shall be able to understand the electronic commerce and trade cycle</li> <li>• Student shall be able to understand the provision and procedure IT act 2000 and cyber-crime</li> </ul> <p>Student shall be able to demonstrate the e-payment system</p> <ul style="list-style-type: none"> <li>• Student shall be able to demonstrate e-commerce application in various industries</li> <li>• Student shall be able to learn e-commerce application in banking and</li> </ul>

	insurance fields
<b>5. Entrepreneurship Development</b>	<ul style="list-style-type: none"> <li>• In the first unit- Entrepreneurship – Creativity and innovation, relationship with the economic development, barriers to entrepreneurship and entrepreneurship development in India.</li> <li>• Entrepreneurship trends – Types of entrepreneurship, career planning, and choice of entrepreneurship as a career, opportunity scouting and idea generation: role of creativity and innovation.</li> <li>• In the third unit students will learn the concept and issues in small business marketing. The idea of consortium marketing, competitive bidding/Tender marketing, negotiation with principal customer.</li> <li>• Financial Incentive – Backward area benefit, scheme for educated unemployed. Fiscal incentives, procurement of industrial equipment, marketing support. Government policies packages, MSME, SIDO, NSIC, Government financial Institution, Business Incubators and facilitators.</li> </ul>
<b>6. Service Sector Management</b>	<p>Students will learn to Improved efficiency and reduced operational costs</p> <ul style="list-style-type: none"> <li>• They will get to know about how to Self-service efficiencies and workload reductions</li> </ul> <p>Students will learn about Improved effectiveness</p> <ul style="list-style-type: none"> <li>• Also they would get to know about Increased control and governance</li> </ul>
Semester-IV	
<b>1. International Business Environment</b>	<ul style="list-style-type: none"> <li>• The International Business Environment is a wide and diverse area.</li> <li>• In the first unit students will understand the important theoretical framework of International Business Environment and various economic elements related to it like policy making, role of financial institution, economic reforms.</li> <li>• In the second unit students will learn the demographic, social, cultural, political and legal dimensions of the International</li> </ul>

	<p>Business Environment and their impact on International Business.</p> <ul style="list-style-type: none"> <li>• In the unit third various aspects of International Economic Cooperation and agreements discussing the role and working of prominent International Economic institutions.</li> <li>• Fourth unit deals with International trade &amp; Investment theories and influence of the government on trade and trends in world trade.</li> <li>• Benefit and challenges that economics face due to Globalization and International Investment</li> </ul>
<b>2. Company Law</b>	<ul style="list-style-type: none"> <li>• The students shall be able make use of various important provisions of company law in trade and commerce.</li> <li>• The students shall be able to apply and interpret the provision of capital share types and issue management as per Companies Act.</li> <li>• The student shall be able, interpret the provisions and procedural aspects of conducting corporate statutory and non-statutory meetings, Annual General Meetings, Extraordinary General meetings and Board Meetings.</li> <li>• The students shall be able interpret the provisions of Appointment, Resignation and Removal of Auditor, Directors, Managing Directors, Key Managerial personnel.</li> <li>• The student shall be able to learn corporate management and government regulation for corporate business winding up of companies</li> </ul>
<b>3. E-commerce</b>	<ul style="list-style-type: none"> <li>• E-commerce is reshaping business practices and education and yet many have express concern over the e-commerce education and training provided to students</li> <li>• Relate various approaches to internet, banking, contrast advantages and disadvantages of approaches to internet marketing justify skills</li> </ul> <p>Understand how a business works and</p>

	how information system fit into business operations
<b>4. Operation Research</b>	<ul style="list-style-type: none"> <li>• Students understand the mathematical and computational modelling of real decision making problems.</li> <li>• Solve and formulate mathematical models of business problems through the application of optimization techniques.</li> <li>• Understand the fundamental application of those tools in industry and public sector in context involving uncertainty and scarce or expensive resources.</li> </ul> <p>Managerial Decision making in the situations of uncertainty and risk.</p>
<b>5. Indirect Tax</b>	<ul style="list-style-type: none"> <li>• Students should be able to understand various terms related to goods and service tax (GST)</li> <li>• Students should be able to understand the difference between forward charge and reverse charge mechanism. Also to understand the difference between composite and mixed supply.</li> </ul> <p>Students will be able to determine the time, place and value of supply.</p> <ul style="list-style-type: none"> <li>• Students will be able to know the content and format for various documents like tax invoice, bill of supply, debit note credit note etc.</li> <li>• Students will be able to compute CGST, SGST and IGST payable after considering the eligible input tax credit.</li> <li>• Students will be able to determine whether a person is required to obtain registration under GST Law.</li> </ul>
<b>6. Project</b>	<p>Develop priceless managerial skills and knowledge to preparation of business. Experience new business ideas during research study.</p> <ul style="list-style-type: none"> <li>• Provide guidance to students to plan and undertake independent research in chosen disciplines.</li> </ul> <p>Analyse data and synthesize research findings</p> <p>Use research findings to advance education theory and practice</p>

**Subject:** Physics

**Program Outcome:**

PO-1 : Demonstrate, solve and an understanding of major concepts in disciplines of physics PO - 2 : create strong interest in physics so as students can further develop themselves through self-study and also enrich path towards higher learning and employment.

PO -3 : Employ critical thinking and the scientific knowledge to design, carry out, record and analyse the results of Physics experiments.

PO -4 : Create an awareness of the impact of Physics on the society, and development outside the scientific community.

PO - 5 : Adapt to sustain in emerging era and constantly upgrade skills towards independent and lifelong learning.

**Program Specific Outcome:**

PSO 1: Gain the knowledge of Physics through theory and practical. PSO 2: Understand good laboratory practices and safety.

PSO 3: Make aware and handle the sophisticated instruments/equipment.

PSO - 4 : Will acquire a job efficiently in diverse fields such as Science and Engineering, Education, Banking, Public Services, Business etc.

Course	Outcome:
<b>Semester I</b>	
<b>PH – 101: (Properties of Matter and Mechanics) TIME : 30 Hours</b>	CO – 1: Know the concept of elasticity, concept of twisting, torsional pendulum and Maxwell's needle CO – 2 : Know concept of viscosity, Bernoulli's theorem and its applications CO – 3 : understands the concept of Poiseuille's theorem , Stoke's law CO – 4 : Understand the concept of surface tension CO – 5 : Know the different coordinate systems, Coriolis Force and its applications CO – 6 : understand concept of system of particles, center of mass, conservation of linear and angular momentum CO – 7 : Understands concept of Moment of Inertia
<b>PH – 102 : ( Electrostatics, Time varying fields and Electric Currents) TIME : 30 Hours</b>	CO – 1 : Know Coulomb's law, Electric field intensity CO – 2 : Understands electric potential, Gradient potential, Conservative force of electric field. CO – 3 : Know Clausius Mossitti relation, Gauss's law.

	<p>CO – 4 : Knows Faradays law ,Lenz’s law, Transformer</p> <p>CO – 5 : Understands Kirchhoff’s law LR circuit,RC circuit and LCR circuit</p> <p>CO – 6 :Knows j- operator method, application of j- operator</p> <p>CO – 7 : Resonant circuit, Q – factor, Power in ac circuit</p>
<b>PH – 103 : (Physics Practical)</b>	<p>CO - 1: Understand the importance of lab safetyand handling of instruments.</p> <p>CO - 2: Carry out practical and analytical skills in physics.</p>
<b>Semester II</b>	
<p><b>PH – 201:(Oscillations, Kinetic theory of gases and Thermodynamics)</b></p> <p><b>TIME : 30 Hours</b></p>	<p>CO – 1:Know the concept of S.H.M., Composition of two S.H.M.s, Lissajous’s figure</p> <p>CO – 2 : Know the concept of damped oscillations, solution of damped oscillation, Energy of damped oscillations</p> <p>CO – 3 : understands the concept of forcedoscillations, solution of Forced oscillations</p> <p>CO – 4 : Understand the concept of Kinetic theoryof gases</p> <p>CO – 5 : Know the transport phenomena of gases, Vander Waal’s equations , critical constants</p> <p>CO – 6 : understand the concept of Thermodynamics, laws of thermodynamics,Carnot’s cycle</p> <p>CO – 7 : Understand the concept of Entropy, Maxwell’s general relationships, Porous plug experiment.</p>
<p><b>PH – 202 : (Gravitation, Astrophysics, Magnetism and Magneto statics)</b></p> <p><b>TIME : 30 Hours</b></p>	<p>CO – 1 : Know the concept of gravitation, Kepler’s laws of planetary motion, Newton’s law</p> <p>CO – 2 : Understand thegravitation potential and intensity, Gravitational self-energy of galaxy</p> <p>CO – 3 : Know the introductory study of solar system, measure size of planet, Solar luminosity,Cosmological theories</p> <p>CO – 4 : Knows Langevin’s theory of diamagnetism, Para magnetism, Ferromagnetism,Ferrimagnetism and its applications</p> <p>CO – 5 : Understand Lorentz force equations ,Biot-Savart’s law</p> <p>CO – 6 : KnowAmpere’s law and its applications, Gauss law of Magnetization</p>

<b>PH –203 : (Physics Practical)</b>	CO - 1: Understand the importance of lab safety and handling of instruments. CO - 2: Carry out practical and analytical skills in physics.
<b>Semester III</b>	
<b>PH – 301: (Sound waves, Applied acoustic, Ultrasonic and Power supply) TIME : 30 Hours</b>	CO – 1: Know the concept Group velocity, phase velocity and their relation, Standing waves and harmonics CO – 2 : Know the concept of musical scale, Temperaments and musical instruments. CO – 3 : understand the concept of acoustics, transducers and their characteristics, Recording and reproduction of sound CO – 4 : Understand the concept of Reverberation, reverberation time , Sabines formula CO – 5 : Know the ultrasonic, Piezoelectric effect, Magnetostriction effect CO – 6 : understand the concept of Frequency of ultrasonic waves and its applications CO – 7 : Understand the concept of Rectifiers, filters, Zener diode and IC voltage regulation
<b>PH – 302 : (Physical optics and Electromagnetic waves) TIME : 30 Hours</b>	CO – 1 : Know the concept of Interference, Interference in thin film CO – 2 : Understand the concept of Newton’s ring, Michelson’s Interferometer CO – 3 : Know the concept of diffraction, Fresnel diffraction, zone plates CO – 4 : Knows Fraunhofer diffraction, Grating and resolving power of grating CO – 5 : Understand the concept of polarization, Brewster’s law, Uniaxial and Biaxial crystal CO – 6 : Understand the concept of Nicol Prism, its application as analyzer and polarizer CO – 7 : Know the concept of EM waves, characteristics of EM waves, Maxwell’s equations, Poynting vector and Poynting theorem
<b>PH –303 : (Physics Practical)</b>	CO - 1: Understand the importance of lab safety and handling of instruments. CO - 2: Carry out practical and analytical skills in physics.
<b>Semester IV</b>	
<b>State physics, X-ray and Laser)</b>	CO – 1: Know the concept of crystal structure, Miller indices, lattices, Bravais lattice, Crystal structure of NaCl, CsCl, ZnS



<b>Time : 30 Hours</b>	<p>CO – 2 : Know the concept of Discrete and continuous spectra, Duane- Hunt law, Mossley’s law and its applications.</p> <p>CO – 3 : familiarize with the concept of X-ray diffraction, Brag’s law, Brag’s spectrometer</p> <p>CO – 4 : Understand the concept of Laser, Different types of lasers, applications of lasers</p>
<b>PH – 402 : (Physical optics and Electromagnetic waves) TIME : 30 Hours</b>	<p>CO – 1 : Know the concept of semiconductors, LED, Solar cell</p> <p>CO – 2: Familiarize with transistors and its characteristics, Transistor as an amplifier</p> <p>CO – 3: Familiarize with JFET and its characteristics, JFET as an amplifier, parameters of JFET</p> <p>CO – 4: Understand Enhancement MOSFET and Depletion MOSFET</p> <p>CO – 5: Understand the concept of molecular physics, Rotational Vibrational spectra, Born Oppenheimer approximation</p> <p>CO – 6: Familiarize with Raman Effect, applications of Raman Effect, NMR, ESR and their applications in spectroscopy.</p>
<b>PH –403 : (Physics Practical)</b>	<p>CO - 1: Understand the importance of lab safety and handling of instruments.</p> <p>CO - 2: Carry out practical and analytical skills in physics.</p>
<b>Semester V</b>	
<b>PH – 501:(Atomic physics, free electron theory and Statistical physics) Time : 30 Hours</b>	<p>CO – 1: Know the different atomic models, Stern-Gerlach experiment, Zeeman effect, Stark effect</p> <p>CO – 2 : Know the concept of free electron theory, Drude Lorentz model, Fermi energy and Fermi levels</p> <p>CO – 3 : familiarize with the band theory of solids, Bloch theorem, Kroning Penny model, Hall effect</p> <p>CO – 4 : Understand the concept of Macro and microstates, Maxwell – Boltzmann distribution and its applications</p> <p>CO – 5 : Know Bose Einstein statistics and its applications, Fermi Dirac distribution and its applications</p>
<b>PH – 502 : (Quantum mechanics, Nanomaterials and Nanotechnology) TIME : 30 Hours</b>	<p>CO – 1 : To become familiar with Blackbody radiation, Photo- Electric effect and Compton Effect and hence be aware how quantum theory emerged</p> <p>CO – 2 : Have gained a clear knowledge about wave properties of particles, DE Broglie waves and its</p>

	<p>implications on the uncertainty principle.</p> <p>CO – 3 : To find solution to Schrödinger's equation for many systems such as particle in a box, Hydrogen Atom and familiarize with different quantum numbers.</p> <p>CO – 4 : grasp the idea of Wave Mechanics and gain the concept of eigen values, eigen functions</p> <p>CO – 5 : Understand the concept of nanotechnology, morphologies of nanomaterials, size dependent physical properties</p> <p>CO – 6 : Familiarize different methods of synthesis of nanomaterials, Debye Scherrer formula, characterization techniques SEM and TEM, Applications of nanomaterials</p>
<b>PH –503 : (Physics Practical)</b>	<p>CO - 1: Understand the importance of lab safety and handling of instruments.</p> <p>CO - 2: Carry out practical and analytical skills in physics.</p>
<b>Semester VI</b>	
<b>PH – 601: (Relativity, Nuclear physics and Bio Physics)</b> <b>Time : 30 Hours</b>	<p>CO – 1: Know the concept of relativity, Galilean transformation, Michelson Morley experiment, Lorentz transformation, time dilation, Velocity dilation theorem</p> <p>CO – 2 : Know the properties of nucleus, Nuclear fusion, nuclear fission, Liquid drop model, G.M. counter, Particle accelerator</p> <p>CO – 3 : familiarize with the alpha decay, Geiger Nuttal law, Gamow's theory.</p> <p>CO – 4 : Familiarize with biophysics, ECG, EEG, ERG and sonography</p> <p>CO – 5 : know basic concepts of colorimeters, spectrophotometers, pH meter</p>
<b>PH –602 : (Electronics, Fiber optics, Communication and Digital electronics)</b> <b>TIME : 30 Hours</b>	<p>CO – 1 : To become familiar with amplifiers, classification of amplifiers, Basic ideas of Op-Amp, Applications of Op-Amp</p> <p>CO – 2 : Have gained a clear knowledge about Oscillators, Phase shift oscillator, Hartley oscillators, Colpitts oscillator</p> <p>CO – 3 : To familiarize with communication system, Amplitude modulation, Frequency modulation</p> <p>CO – 4 : grasp the idea of optics fibre, types of optics fibre, Acceptance angle and numerical aperture, electrical and optical band width</p> <p>CO – 5 : Familiarize with different number system, addition and subtraction of binary numbers</p>

	CO – 6 : Familiarize with different logic gates, adder, subtractor, Boolean equations De- Morgan's theorem and its verifications
<b>PH –603 : (Physics Practical)</b>	CO - 1: Understand the importance of lab safety and handling of instruments. CO - 2: Carry out practical and analytical skills in physics.

**Subject: Chemistry**

<b>Department Of Chemistry</b>	Successful completion of three-year degree program in Chemistry a student should be able .
<b>Programme Outcomes</b>	<p><b>PO-1</b> To exhibit, solve and understand major concepts in all disciplines of chemistry.</p> <p><b>PO-2</b> To think methodology and solve the problems.</p> <p><b>PO-3</b> To provide work for critical thinking and scientific knowledge to design carry out, record and analyse results of chemical reactions.</p> <p><b>PO-4</b> To create an awareness of the impact of chemistry on the environment and society to develop outside the scientific community.</p> <p><b>PO-5</b> To find out the non-conventional route of chemical reaction for sustainable and eco-friendly development.</p> <p><b>PO-6</b> To use modern techniques well standard - equipment and Chemistry software.</p>
<b>Programme Specific Outcomes</b>	<p><b>PSO-1</b> Gain the knowledge of chemistry through theory and practical.</p> <p><b>PSO-2</b> Identify chemical formula and solve numerical problems.</p> <p><b>PSO-3</b> To explain nomenclature, stereochemistry, structures, reactivity and mechanism chemical reactions.</p> <p><b>PSO-4</b> Use modern chemical tools, Models Chem-draw, Cheme Sketch software, Chart and equipment.</p> <p><b>PSO-5</b> Know the (SAR) structure –activity relationship.</p> <p><b>PSO-6</b> Understand good laboratory practice and safety.</p> <p><b>PSO-7</b> Develop research oriented skills.</p> <p><b>PSO-8</b> Make aware and handle the sophisticated Instruments.</p>

## Course Outcome of B.Sc.. Chemistry:

Course Outcomes	After completion of these courses students should be able to
Semester-I Paper-1 CH-101 ( Inorganic Chemistry)	<ul style="list-style-type: none"> <li>• Enable students to learn the basic structure of atom.</li> <li>• Identify the concept nature of chemical bond.</li> <li>• Learn the Hund's rule, Pauli's principle and concept of covalent compounds.</li> <li>• Understand the de-Broglie wave equation.</li> <li>• Derive Schrodinger's time dependent and independent equation.</li> <li>• Study Periodic table and its properties, S – block and p- block elements.</li> </ul>
Semester-I Paper-2 CH-102 (Physical Chemistry)	<ul style="list-style-type: none"> <li>• Understand the basic concept of thermodynamics.</li> <li>• Recognize various states of matter.</li> <li>• Memorised the concept of different types of surface phenomenon and surface chemistry.</li> <li>• Construct Adsorption isotherm and BET equation.</li> <li>• Interpret Catalysis and catalytic property. Michaelis –mentens equation.</li> <li>• Perform and understand the experimental procedures during chemistry experiments,</li> </ul>
Semester-I Paper- CH-103 (Laboratory Course)	<ul style="list-style-type: none"> <li>• Enable the standard procedures and principle of physical chemistry experiments, handling of instruments, instrumental analysis techniques</li> <li>• Investigate different metal salts by using inorganic qualitative analysis.</li> <li>• Understand various properties of liquids i.e. surface tension, refractive index, viscosity</li> <li>• Detect adulteration in food.</li> </ul>
Semester-II Paper-1 CH-201 (Organic Chemistry)	<ul style="list-style-type: none"> <li>• Understand the concept structure and bonding and mechanism of reaction of organic compounds.</li> <li>• Extend the concept of stereochemistry.</li> <li>• Predict different types of reaction mechanism.</li> <li>• Identify the aromaticity of organic compounds.</li> <li>• Study of Geometrical and conformational isomerism and basic concept of alkenes, alkenes, dienes, alkynes and Aromaticity.</li> </ul>
Semester-II Paper-2 CH-202 (Physical Chemistry)	<ul style="list-style-type: none"> <li>• Understand the second law of thermodynamics of chemical reactions, free energy functions.</li> <li>• Highlight the concept of chemical kinetics.</li> <li>• Understand the concept of phase equilibrium.</li> <li>• Execute chemical equilibrium, phase rule, chemistry of liquid – Liquid mixtures.</li> <li>• Understand basics of Nuclear chemistry, molecular structure, chemical kinetics and theories.</li> </ul>

Semester-II - CH-203 (Laboratory Course)	<p>Students will gain in understanding of method of analysis related to element detection, functional group detection.</p> <p>Students will be able to synthesize simple molecule like Benz amide and Benz aldehyde.</p> <p>Students will be able to use various techniques useful for analysis such as calorimetry, conductometry.</p>
Semester-III Paper-1 CH-301 ( Inorganic Chemistry)	<p>Understand the concepts of molecular orbital theory.</p> <p>Understand the properties of d and f block elements.</p> <p>Understand the role of non-aqueous solvents.</p> <p>Understand concepts of errors and evaluation in chemical analysis</p>
Semester-III Paper-2 CH-302 (Organic Chemistry)	<p>Understand the structure and chemical bonding properties and mechanism involved aryl, alkyl halides, polyhalogen compounds, aldehydes, ketones, carboxylic acid and derivatives and aldehydes.</p> <p>Identify the structure and chemical bonding in alcohols and phenols.</p> <p>Illustrate chemical reactions of acids, alcohols, phenols etc.</p>
Semester-III - CH-303 (Laboratory Course)	<p>Perform volumetric analysis for the estimation of Zn, Fe and alkali content in given sample.</p> <p>Identify given organic compound by organic qualitative analysis. Analysis related to element detection, functional group detection, Melting point and derivative preparation.</p>
Semester-IV Paper-1 CH-401 ( Inorganic Chemistry)	<p>Understand the properties of coordination compounds.</p> <p>Overview of organometallic chemistry.</p> <p>Understand the importance of essential elements in living organism.</p> <p>To understand the Concept of hard and soft acid base theory</p>
Semester-IV Paper-2 CH-402 (Physical Chemistry)	<p>By the end of this course, Students will be able to:</p> <p>Understand Solid state.</p> <p>Use spectroscopy for chemical analysis.</p> <p>Understand electrochemistry of reversible and irreversible cells.</p>
Semester-IV - CH-403 (Laboratory Course)	<p>By the end of this course, Students will be able to:</p> <p>Perform gravimetric analysis of Ni, Ba.</p> <p>Elements detection by paper Chromatography</p> <p>To estimate amount of constituents present in given solution by conduct meter, potentiometer.</p>
	<p>Extend the concept of heterocyclic chemistry.</p> <p>Understand the theory behind the organic qualitative analysis.</p> <p>Understand the chemistry of organo magnesium and Organo zinc compound.</p> <p>➤ Understand the basic concepts mechanism organic</p>

Semester-V Paper- 1 CH-501 (Organic Chemistry)	<p>compounds of nitrogen , heterocyclic compounds , elemental analysis , organometallic compounds , UV-Visible and infrared spectroscopy and its application.</p> <p>Understand quantum chemistry and its application. Construct molecular orbital diagram. Understand photochemistry and Raman spectroscopy. Express electrochemistry Categorized micromolecules. .</p>
Semester-V Paper-2 CH-502 (Physical Chemistry)	<p>Estimation of acid,glucose,amide, nitrogroup, Saponification of oils. Perform analysis based on viscosity, colorimeter, refractor meter</p> <p>Understand metal-ligand bonding in co-ordination compounds. Interpret electronic spectra of transition metal complexes. Understand separation techniques used in analysis and purification. Study the importance of inorganic polymers.</p>
Semester-V - CH-503 (Laboratory Course)	<p>Learn the theory behind Nuclear magnetic resonance spectroscopy. Examine structure and properties of biomolecules. Understand the importance of synthetic dyes, synthetic drugs and synthetic.</p>
Semester-VI Paper-1 CH-601 ( Inorganic Chemistry)	<p>Carry out organic synthesis via emulates carbohydrates amino acid , peptides , proteins ,nucleic acids</p> <p>Separation of binary mixture and analysis of organic compounds. functional group detection , Synthesis of organic compounds, determination of organic compounds by chemical analysis. Preparation of inorganic complexes, chromatographic, separation of binary mixtures, gravitational andcolorimetric analysis.</p>
Semester-VI Paper-2 CH-602 (Organic Chemistry)	
Semester-VI- CH-603 (Laboratory Course)	

**Subject: MathematicsProgram Outcome:**

**PO- 1** Gain knowledge in foundational areas of mathematics;

**PO- 2** Communicate mathematics accurately, precisely and effectively;

- PO- 3** Develop mathematical thinking;  
**PO-4** Apply mathematical knowledge; and  
**PO- 5** Be able to solve mathematical problems using technology.

**Program Specific Outcome:**

**PSO-1** Join school as mathematics teacher.

**PSO-2** Prepare for competitive exams like MPSC, UPSC, GATE and CAT.

**PSO-3** Analyze and grasp abstract ideas to apply them to important practical problems. **PSO-4** Develop strong analytical skills and a broad-based background in the mathematical **PSO-5** Sciences to join Indian industry

Course	Outcome:
<b>Semester I</b>	
<b>M1 : Elementary Mathematics</b>	<p><b>CO - 1</b> In complex number understand De Moivre's theorem &amp; its application. To find roots of complex number. The nth roots of unity.</p> <p><b>CO – 2</b> To find rank of matrix, Row canonical form, Normal form.</p> <p><b>CO- 3</b> Understand the system of homogeneous and non homogeneous equations of matrices. To find characteristic equation and roots. Cayley-Hamilton theorem.</p> <p><b>CO - 4</b> Understand theory of equations its transformation, reciprocal. Cardan's solution of cubic equation. Ferrari's &amp; Descartes solution of Biquadratic equations.</p> <p><b>CO- 5</b> Basic concept of elementary number theory.</p>
<b>M2 : Differential and integral calculus</b>	<p><b>CO – 1</b> Understand the concept of successive differentiation and Leibnitz's Rule. To find limits of Indeterminate forms by using L-Hospital Rule.</p> <p><b>CO – 2</b> Understand the concept of Jacobians determinant, Taylor's series expansions and Extreme values.</p> <p><b>CO – 3</b> Understand the concept of partial derivatives asymptotes and envelope.</p> <p><b>CO – 4</b> Lagrange's method of undetermined multipliers for maxima and minima.</p> <p><b>CO - 5</b> To find reduction formulae using integration of different functions.</p>
<b>Semester II</b>	

<b>Differential and Difference Equations</b>	<b>CO- 1</b> Understand the concept of Geometry (line, Plane, Circle, Sphere, cone, cylinder). <b>CO- 2</b> Solve first order exact differential equation, first order linear differential equation. <b>CO- 3</b> Study Bernoulli's differential equation <b>CO- 4:</b> Study second order linear differential equations. <b>CO- 5</b> Study Difference equation.
<b>Analysis</b>	<b>CO – 1</b> Understand the concept of vector differentiation (Gradient, Divergence and Curl). <b>CO – 2</b> Evaluation of double integrals and its application, Change of order of integration, To find Area in polar coordinate, Triple integration. <b>CO – 3</b> Gamma and Beta function with their transformation. Relation between Beta & Gamma function. <b>CO – 4</b> Solve problems on vector Integration (Surface Integral, Volume Integral, Line integral). <b>CO –5</b> Green's Theorem and its application, Gauss divergence Theorem, Stokes Theorem.
<b>Semester III</b>	
<b>Calculus , Sequence and Series</b>	<b>CO- 1</b> Understand Mean Value Theorems, Limit & continuity of functions of two variables. <b>CO- 2</b> Understand the concept of Minima & maxima of functions of two variables. <b>CO-3</b> Understand the concept of sequence. <b>CO- 4</b> Understand the concept of series.
<b>Differential Equations &amp; Group Homomorphism</b>	<b>CO- 1</b> Understand Bessel's & Legendre's functions with their properties. <b>CO-2</b> Understand the concept Laplace Transform & Inverse Laplace Transform. <b>CO-3</b> Solve Ordinary and Partial Differential Equations using Laplace transform <b>CO- 4</b> Understand the concept of Fourier Transform. <b>CO- 5</b> Understand the concept of Group.
<b>Semester IV</b>	
<b>Partial Differential Equations &amp; Calculus of Variation</b>	<b>CO- 1</b> Solve simultaneous differential equations. <b>CO- 2</b> Form partial differential equations of first order <b>CO- 3</b> Use suitable method to find solution of partial differential equations of first order. <b>CO- 4</b> Solve linear partial differential equations of higher order. <b>CO- 5</b> Study calculus of variation



<b>M-8 Mechanics</b>	<b>CO- 1</b> Understand the concepts of equilibrium of coplanar forces, virtual work, catenaries. <b>CO- 2</b> Understand the concept of radial & transverse velocity, radial & transverse acceleration. <b>CO- 3</b> Understand the concept of simple harmonic motion. <b>CO- 4</b> Understand Mechanics of a system of particles. <b>CO- 5</b> Study equations of motion.
<b>Semester V</b>	
<b>M-9 Analysis</b>	<b>CO- 1</b> Understand the concept of Fourier series. <b>CO-2</b> Understand the concept Riemann- Stieltjes integral. Understand fundamental theorem of calculus. <b>CO- 3</b> Understand basic concept of analytic functions. <b>CO-4</b> Study Mobius transformation.
<b>Space, Complex integration &amp; Algebra</b>	<b>CO- 1</b> Examine countable and uncountable sets. <b>CO- 2</b> Understand the concept Metric spaces. <b>CO- 3</b> Understand the concept of Ring. <b>CO- 4</b> Study complex integration.
<b>Semester VI</b>	
<b>M-11 Abstract Algebra</b>	<b>CO- 1</b> Understand the concept of Group Automorphism. <b>CO-2</b> Give examples of vector spaces. <b>CO- 3</b> Understand the concept of linear transformation. <b>CO- 4</b> Link linear transformations with matrices. <b>CO- 5</b> Study inner product spaces.
<b>M-12 Discrete Mathematics and Elementary Number Theory (Optional Paper)</b>	<b>CO- 1</b> Distinguish between equivalence relation and partial order relation. <b>CO- 2</b> Understand Boolean algebra. <b>CO- 3</b> Study basic concept of Number Theory. <b>CO-4</b> Understand Greatest Integer Function, Quadratic Residues and Reciprocity. <b>CO- 5</b> Study the Diophantine equations $ax+by=c$ , the equations $x^2 + y^2 = z^2$ , $2x^4 + y^4 = z^4$ .
<b>Differential Geometry (Optional Paper)</b>	<b>CO- 1</b> Study curve in space, its parametric representation, curvature of curve. <b>CO- 2</b> Understand the concept of Envelopes, developable surfaces. Study curves on a surface, normal curvature. <b>CO- 3</b> Study differential equation of Geodesic, Curvature of Geodesic, Gaussian curvature <b>CO- 4</b>

<b>Special Theory of Relativity(Optional Paper)</b>	<b>CO- 1</b> Study Newtonian Relativity, Galilean Transformation. <b>CO- 2</b> Understand failure of Newtonian Relativity <b>CO- 3</b> Study Einstein's Theory of Relativity, Lorentz Transformation. <b>CO- 4</b> Study Tensors, Riemannian metric, metric tensor
	<b>CO- 5</b> Study Maxwell's equations of electromagnetic theory, equivalence of mass and energy $E=mc^2$ .

**Subject: Computer Science Program Outcome:**

**PO-1:** Demonstrate professionally with social, cultural and ethical responsibility as an individual as well as in multifaceted teams with positive attitude

**PO-2:** Adapt to sustain in emerging era and constantly upgrade skills towards independent and lifelong learning.

**PO-3:** Communicate complex concepts with professionalism by adapting appropriate resources and modern tools.

**PO-4:** Design, develop algorithms and provide software solutions to cater the industry needs and to develop the skills to take up entrepreneurship and higher studies in the field of Computer Science

**PO-5:** Inculcate skills to excel in the fields of Computer Science and IT enabled services, Public and Private sectors, Teaching and Research.

**Program Specific Outcome:**

**P S O 1:-** Understand the knowledge of operating system in reality.

**P S O 2:-** Study data structure and its principles.

**P S O 3:-** Learn different programming languages as per the requirements software fields.

**P S O 4:-** Study and understand the importance of cyber security.

**P S O 5:-** study the different roles and the features of operating system.

Course	Outcome:
<b>Semester I</b>	
<b>PROGRAMMING IN 'C'</b>	<b>CO – 1:</b> Understand programming structures like Sequence, Selection, Iteration and Modular. <b>CO – 2:</b> Understand development tools such as algorithm, flowchart and pseudo code for any problem to solve them programmatically. <b>CO – 3:</b> Understand basic concepts of programming in C such as character set, Operators, Functions etc. <b>CO – 4:</b> Understand arrays, strings, functions, structures, unions and pointers. <b>CO – 5:</b> Understand the file handling, sequential access and random access programmatically.

<b>FUNDAMENTALS OF INFORMATION TECHNOLOGY</b>	<p><b>CO – 1:</b> Understand the meaning and basic components of a Digital computer system</p> <p><b>CO – 2:</b> Understand the role of CPU, BUS, Number System, and Language Evaluation</p> <p><b>CO – 3:</b> Understand the concept of Compilers, Interpreters and Assembler</p> <p><b>CO – 4:</b> Understand the concepts and need of primary and secondary memory, different storage devices</p> <p><b>CO – 5:</b> Explain input devices and output devices. <b>CO – 6:</b> Explain Network concepts, LAN, WAN Man, Network protocols etc.</p>
<b>Semester II</b>	
<b>OBJECT ORIENTED PROGRAMMING USING ‘C++’</b>	<p><b>CO – 1:</b> Understand key structured programming, constructs declaration sequence, selection, repetition evaluating expression.</p> <p><b>CO – 2:</b> Understand C++ functions and the concepts related to good modular designs.</p> <p><b>CO – 3:</b> Understand pointers and reference parameters; understand the creation of class and objects.</p> <p><b>CO – 4:</b> Handle files programmatically creating dynamic objects.</p> <p><b>CO – 5:</b> Understand inheritance virtual functions, need and pure virtual functions.</p> <p><b>CO – 6:</b> Understand mechanism of online function, constructors, destructors, operator overloading and exception handling.</p>
<b>SYSTEM ANALYSIS AND DESIGN</b>	<p><b>CO – 1:</b> Carry Feasibility Study of system, Gather data to analyze and specify requirements of a system</p> <p><b>CO – 2:</b> Design system components and environment <b>CO – 3:</b> Develop data flow diagram and decision tables to design system</p> <p><b>CO – 4:</b> Understand the concept of Implementation, Testing and Conversion of system</p> <p><b>CO – 5:</b> Understand the concept of Software Reliability and Quality Management.</p>
<b>Semester III</b>	
<b>DATA STRUCTURES</b>	<p><b>CO – 1:</b> Determine appropriate data structure as applied to specified problem definition.</p> <p><b>CO – 2:</b> Understand the concept of Linked List, Double linked List and their representation</p> <p><b>CO – 3:</b> Explain the different mechanism involved in memory Mgt.</p> <p><b>CO – 4:</b> Understand the concept of avoidance, detection and prevention of Deadlock.</p> <p><b>CO – 5:</b> Explain Trees in Memory, Definition and Representation of Graphs in Memory</p>

<b>OPERATING SYSTEMS</b>	<b>CO – 1:</b> Understand the basic of Structure of Operating System, Characteristics of Modern OS <b>CO – 2:</b> Understand the anatomy of Process Management, CPU Scheduling Algorithm <b>CO – 3:</b> Understand the concept of deterministic CO – Modelling, Dead Lock Prevention, Dead Lock Detection, Recovery from Deadlock <b>CO – 4:</b> Explain paging, segmentation, Segmentation with paging. Protection <b>CO – 5:</b> Understand file management, Buffering.
<b>Semester IV</b>	
<b>JAVA PROGRAMMING</b>	<b>CO – 1:</b> Understand model of Java Programming language such as Operators, tokens etc. Creating a class & subclass, <b>CO – 2:</b> Understand Data members, Invoke a method, passing arguments to a method, calling method. <b>CO – 3:</b> Explain Method overloading, Constructor overloading. Java class library <b>CO – 4:</b> Understand Decision making & loops, Creating an array, String array, <b>CO – 5:</b> Explain the concept of Inheritance and Interfaces <b>CO – 6:</b> Evaluate user requirement for software functioning. <b>CO – 7:</b> Solve given problems using Java programming. <b>CO – 8:</b> Create GUI applications
<b>X OPERATING SYSTEM</b>	<b>CO – 1:</b> Understand the basic set of commands and utilities in Linux, concept of shell <b>CO – 2:</b> Understand the anatomy of Linux operating system, editor and procedure of printing files Sharing Files with other Users <b>CO – 3:</b> Perform backup and to create compress file and decompress them. <b>CO – 4:</b> Perform operation on process. <b>CO – 5:</b> Understand KDE and GNOME desktop environment.
<b>Semester V</b>	
<b>VISUAL BASIC PROGRAMMING</b>	<b>CO – 1:</b> Write, compile and execute applications using various controls like text box, command button. <b>CO – 2:</b> Write programs using Arrays and functions <b>CO – 3:</b> Write, compile and execute applications using database connectivity like ADODC. <b>CO – 4:</b> Create database using MS-Access and visual Data managers
<b>DATA BASE MANAGEMENT SYSTEM</b>	<b>CO – 1:</b> Understand basic concepts of DBMS, its objective <b>CO – 2:</b> Role of Database Administrator, Database Users, different Data models and network models <b>CO – 3:</b> Understand concept of ER model. <b>CO – 4:</b> Explain Relational Model, Structure and Extended

	Relational model 5 Understand Functional Dependency and Perform normalization of database.
<b>Semester VI</b>	
<b>COMPILER CONSTRUCTION</b>	<b>CO – 1:</b> Understand Compilers and translators and their need. Explain Intermediate code Generation. <b>CO – 2:</b> Define programming languages, ,High Level programming languages <b>CO – 3:</b> Understand the lexical and syntactic structure of a language, the role of the lexical analyser <b>CO – 4:</b> Understand Parsers, Shift-reduce parsing and DAG representation of basic blocks
<b>SQL AND PL/SQL</b>	<b>CO – 1:</b> Understand CODD’S Rules, Oracle Database Objects, data types, operators <b>CO – 2:</b> Create tables, derive table from existing table, altering, dropping of Tables. <b>CO – 3:</b> Check Integrity Constraints and Adding and Dropping Constraints <b>CO – 4:</b> Understand types of Views, Create Views, Drop Views, Insert, Update and Delete Data using Views. <b>CO – 5:</b> Understand basic concepts of PL/SQL Programming Create cursors, triggers and Exception Handling

**Subject: Botany Program Outcome:**

**PO1 Knowledge and understanding of :**

- 1 The range of plant diversity in terms of structure, function and environmental relationships.
- 2 The evaluation of plant diversity.
- 3 Plant classification and the flora of Maharashtra.
- 4 the role of plants in the functioning of the global ecosystem.
- 5 A selection of more specialized, optional topics.

**PO2 Intellectual skills – able to**

- 1 Transfer of appropriate knowledge and methods from one topic to another within the subject.
- 2 Construct and test hypothesis.

**PO3 Practical Skill :** Students learn to carry out practical work ,in the field and in the laboratory ,with minimal risk. They gain introductory experience in applying each of the following skills interpreting plant morphology and anatomy. plant identification. Vegetation analysis techniques. A range of physiochemical analyses of plant materials in the context of plant physiology and biochemistry.

**PO4 Scientific Knowledge :** Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.

**PO5 Problem analysis :** Identify the taxonomic position of plants, formulate the research literature ,and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in botany

**PO6 Modern tool usage:** Create, select and apply appropriate techniques, resources, and modern instruments and equipments for biochemical estimation, molecular biology, biotechnology, plant tissue culture experiments and physiological activity of plant

### Program Specific Outcome:

**PSO 1** Know the characteristics, systematic, morphology, structure and life cycle patterns of Viruses, Mycoplasma, Bacteria, Cynobacteria, Algae, Fungi, Lichens, Bryophytes and Pteridophytes.

**PSO 2** Understand the diversity, systematic and biology of seed plants.

**PSO 3** Understand the nature and basic concepts of cell biology, genetics, anatomy, morphology, biochemistry, physiology, taxonomy and ecology

**PSO 4** Analyze the interrelationships among prokaryotic and eukaryotic organisms.

**PSO 5** Study of organization and function of the gene, genome, cell, tissue, organ and organ system including development, reproduction, ecological and physiological adaptations and behavior of different forms of life.

**PSO6** Understand the importance of plants, their diversity and its conservation.

**PSO7** Achieve pure and applied botanical knowledge.

**PSO8** Perform procedures as per laboratory standards in the areas of biochemistry, physiology, biotechnology, taxonomy, economic botany and ecology.

**PSO9** Demonstrate hands on skill in the experimental techniques and methods of analysis in various field of botany.

**PSO10** Generate test hypothesis, observations, data, analyze and interpret results, derive conclusions and evaluate their significance within a broad scientific context.

**PSO 11** Promotes steward ship responsibility, entrepreneurship skill, research and career opportunities.

Course	Outcome:
<b>B.Sc Sem I</b>	<b>Paper I ( viruses, prokaryotes and algae )</b> <b>CO1-</b> To study about Viruses, Prokaryotes & Algae <b>CO2-</b> To gain knowledge about microbial diversity. <b>CO3-</b> To know general characteristics, morphology, ultramicroscopic structure of cell and life cycle pattern of viruses, bacteria, mycoplasma, cynobacteria and algae <b>CO4</b> Learn about general characteristic and classification of algae.
	<b>Paper II ( Fungi, Lichen, Plant Pathology &amp; Bryophyte)</b> <b>CO1-</b> To give information about fungi ,lichen ,plant pathology & bryophyte and their life cycle <b>CO2-</b> Know the general characteristics , classification of fungi and bryophyte. <b>CO3-</b> To make them understand the life history of Albugo, Mucor, Cercospora, Puccinia, Riccia, Marchantia, Funaria. <b>CO4-</b> To explore host, pathogen, symptoms, causes and control measure of plant diseases like citrus canker, red rot of sugarcane, leaf curl of papaya <b>CO5-</b> Understand the type of lichen, reproduction in lichen

	<b>CO6</b> -Know about the economic importance of lichen, fungi, bryophyte.
<b>Lab Course Sem I</b>	<b>Student should understand,</b>  <b>CO1</b> -Study of bacterial forms,, Nostoc, Oedogonium, Chara,, Ectocarpus <b>CO2</b> -Study Albugo, Mucor, Cercospora, Puccinia, Lichen, plant pathology, Riccia, Marchentia, & Funaria. Botanical Excursion
<b>B.Sc. Sem II</b>	<b>Paper I ( Pteridophyta &amp; Gymnosperm )</b> <b>CO1</b> -Know about the classification and general characters, economic importance, alternation of generation of pteridophyta and gymnosperms <b>CO2</b> -To make them know the life history of Rhynia, Selaginella, Equisetum, Cycas, Pinus and Cycadeoidea <b>CO3</b> -Study the concepts of Apogamy, Apospory, Stelar system in Pteridophytes, Heterospory and seed habit.
	<b>Paper II (Palaeobotany &amp; Morphology of Angiosperms)</b> <b>CO1</b> -Study of Geological time scale, Fossilization, types of Fossils and Fossil plants <b>CO3</b> -Understand the Fossil Genera Glossopteris representing fossil groups <b>CO4</b> -Understand the root, stem and leaf morphology of angiosperms <b>CO5</b> -To be familiar with types of inflorescence and details of typical flower including various parts . <b>CO6</b> -To provide information about classification and types of fruits.

<b>Lab course Sem II</b>	<b>CO1-</b> To learn about the structure and reproduction of selected species of pteridophytes and gymnosperms <b>CO2-</b> To study fossils, types, forms and modification of root, stem, leaf, inflorescence, flowers, and fruits. Botanical Excursion
<b>B.Sc. Sem III</b>	<b>Paper I (Angiosperm Taxonomy)</b> <b>CO1-</b> To study origin and phylogeny of angiosperm and fossil angiosperms <b>CO2-</b> Study concepts of plant taxonomy and classification of angiosperm <b>CO3-</b> To give knowledge about Cytology and Evolutionary relationship among taxonomic groups <b>CO4-</b> To understand the comparative account of selected angiosperms families and its economic importance. <b>Paper II( Cell Biology, Plant breeding and Evolution)</b> <b>CO1-</b> Cell Biology give knowledge about structure of typical plant cell, Cell organelles and their structure and functions. <b>CO2-</b> Study chromosome organization and cell division in plants and their significance <b>CO3-</b> To understand various techniques in plant breeding, Biostatistics and theory of evolution.
<b>Lab course Sem III</b>	<b>CO1-</b> Study of angiospermic families- Malvaceae, Brassicaceae, Caesalpiniaceae, Asclepiadaceae, Euphorbiaceae <b>CO2-</b> Study specimens of Sahanianthus, Enigmocarpon Study mitosis and meiosis in plant materials. <b>CO3-</b> To calculate mean, mode, median, standard error, student t-test value Botanical Excursion
<b>B .Sc. Sem IV</b>	<b>Paper I Angiosperm Anatomy &amp; Embryology)</b> <b>CO1-</b> To describe Angiosperm anatomical and



	<p>embryological characters related to study of plants</p> <p><b>CO2</b>-To study tissues and their functions</p> <p><b>CO3</b>-Understand the various components of roots and stem and its primary and secondary growth</p> <p><b>CO4</b>-Types of vascular bundles –dicots and monocots in dicots and monocots plant, secondary growth and anomalous secondary growth in Bignonia and Dracaena stem</p> <p>Anatomy of leaf – Dicot [Nerium], Monocot [Maize]</p> <p><b>CO5</b>-Learn about double fertilization and their significance</p> <p><b>CO6</b>-Study mechanism of pollination and basic structure and development of embryo</p> <p><b>Paper II [Genetics and Molecular biology]</b></p> <p><b>CO1</b>-Knowledge about Mendelism, Genes interaction, Linkages, Crossing over, Chromosome variation</p> <p><b>CO2</b>-Understand the biochemical nature of nucleic acids, their role in living system</p> <p><b>CO3</b>-To understand the process of gene expression synthesis, genetic code and operon concept.</p>
<b>Lab course Sem IV</b>	<p><b>CO1</b>-Study simple, complex and secretory tissue, types of vascular bundles, -anatomy of dicot and monocots roots –sunflower, maize, internal structure of secondary growth and anomalous secondary growth – Bignonia and Dracaena stem, anatomy of leaves- Nerium, maize</p> <p><b>CO2</b>-To study types of ovules, anther structure, pollen grains, adaptations for pollination</p> <p><b>CO3</b>-To calculate the percent pollen germination in the given anthers</p> <p><b>CO4</b>-To prove Mendel's law of segregation and independent assortment with the help of colored beads</p> <p>Botanical Excursion</p>
<b>B.Sc. Sem V</b>	<p><b>Paper I ( Biochemistry &amp; Plant Physiology I )</b></p> <p><b>CO1</b>-Give knowledge about biochemistry and plant physiology I</p> <p><b>CO2</b>-Study of carbohydrates, lipids, amino acids and basics of enzymology.</p> <p><b>CO3</b>-Study plant water relations and mineral nutrition.</p> <p><b>CO4</b>-Process of photosynthesis and respiration is study in higher plants.</p> <p><b>CO5</b>-Know the nitrogen metabolism and its importance.</p> <p><b>Paper II ( Plant Ecology I )</b></p> <p><b>CO1</b>-Study basics of ecology and environmental</p>

	<p>factors.-</p> <p><b>CO2</b>-To provide knowledge about natural resources and their importance in sustainable development.</p> <p><b>CO3</b>-Know the importance of ecosystem-components, food chain, food web, ecological pyramids.</p> <p><b>CO4</b>-Understand climatic and phytogeographic regions of India, plant communities.</p>
<b>Lab course Sem V</b>	<p><b>CO1</b>-To understand by performing some physiological &amp; ecological experiments</p> <p><b>CO2</b>-To study the effects of various chemicals on permeability of membranes, ascent of sap in suitable plant material, separate chlorophyll pigment by paper chromatography, perform micro chemical test for determination of reducing &amp; non-reducing sugars, starch, cellulose, oil and proteins, to study the effect of light intensity &amp; quality, CO<sub>2</sub> concentration and temperature on rate of photosynthesis by suitable method, determine osmotic potential of cell sap by plasmolytic method, study the activity of enzyme amylase, catalyze.</p> <p><b>CO3</b>-To determine frequency, density, abundance of plant community by quadrat method, to determine the homogeneity of vegetation by Raunkiaer's frequency diagram, to determine water holding capacity of soil samples, to determine water rising capacity of given soil samples, to determine soil moisture of the sample.</p> <p>Botanical Excursion</p>
<b>B.Sc. Sem VI</b>	<p><b>Paper I (Plant physiology II &amp; Biotechnology)</b></p> <p><b>CO1</b>-Know the scope of plant physiology &amp; biotechnology.</p> <p><b>CO2</b>-To understand growth concept, phytochromes, biological clock, plant growth regulators and plant movements.</p> <p><b>CO3</b>-Understand the concept of photoperiodism and vernalization,</p> <p><b>CO4</b>-To learn seed dormancy and plant defense mechanism.</p> <p><b>CO5</b>-Understand the basics of genetic engineering and tissue culture techniques and its application.</p> <p><b>Paper –II (plant ecology-II techniques &amp; utilization of plants).</b></p> <p><b>CO1</b>-Understand the plant succession, morphological, anatomical &amp; physiological adaptations.</p> <p><b>CO2</b>-Learn about environmental pollution, management, natural and resources.</p> <p>Learn skill on working principles, types and</p>

	application of: microscopy, centrifugation, electrophoresis, spectroscopy, chromatography, pHmeter. <b>CO3</b> -Knowledge about utilization of plants and ethno botany to enable the student about utility in life.
<b>Lab course Sem VI</b>	<b>CO1</b> -Learn about the ecological adaptations and human interference in -environment as analysis of water samples provides great concern towards environment audit. <b>CO2</b> -To determine seed viability, the effect of various plant growth regulators on the growth and development of plants. <b>CO3</b> -To study the morphological and anatomical characteristics hydrophytes' and xerophytes, the morphological characteristics of cladode, phylloclade, phyllode and pneumatophores . <b>CO4</b> -To determine the DO, salinity (chlorides), transparency, pH and temperature of water samples different sources. <b>CO5</b> -To study the dust holding capacity of leaves, the percent leaf-area injury of different leaf samples collected around polluted sites. <b>CO6</b> -Study about the utilization of plants: morphology, utilization and important chemical constituents of plants. <b>CO7</b> -To study the plants of Ethno botanical importance. <b>CO8</b> -Electrophoretic/chromatographic separation of amino acids. Botanical excursion.

### **Subject: Zoology**

#### **Program outcome:**

PO 1- B.Sc. graduates would apply their expansive knowledge of Zoology, Life sciences and allied subjects to the understanding of complex life processes and phenomena.

PO 2 - The under-graduate programme is aimed at making student capable of comprehending the post-graduate syllabus and be able to analyse simple as well as complex situations involving application of scientific concepts in real life situations.

PO3-Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PO 4 - Develop the skill and ability to apply and understand the principles of various disciplines objectively, creatively and through independent thinking.

PO 5-Apply appropriate methods of research, investigation and design, to solve problems in science.

PO 6 –Compare and contrast the characteristics of animals that differentiate them from other forms of life.

#### **Program Specific Outcome:**

PSO 1- Explain the origin of life with context to the origin of eukaryotic cell and theory of origin, fossil records, Darwinism and Neo-Darwinism, experimental evidences.

PSO2-

A broad understanding of animal diversity, including scientific classification and evolutionary relationships of major phyla/group of animals is the prime objective.

PSO 3- To study the interactions of biological, chemical, and physical features of environment or the habitat (e.g., terrestrial, freshwater, marine, host) among living organisms is also emphasized.

PSO 4- To get aware of the animal growth and development, metabolism and propagation of pre-existing life forms is predominantly included.

PSO 5- The students will acquire knowledge in cell biology, molecular biology, genetics, biotechnology, microbiology, biochemistry, biostatistics, developmental biology, immunology, animal physiology, environmental biology, evolution etc., which helps to develop their ability to analyse and solve various biological problems.

PSO 6- Illustrate zoological science for its application in branches like medical entomology, apiculture, aquaculture and agriculture etc.

Course	Outcome:
<p align="center"><b>Semester 01</b></p> <p>Paper-I: Life and Diversity of Animals Nonchordates (Protozoa to Annelida) Paper-II: Environment Biology Practical-I (Based on Paper I &amp; II)</p>	<p>CO1- Describe the morphology, habit and habitat. Systematic position and various systems in animals; CO2- To reach out to their life cycles of key animals and evolutionary aspects including the connecting animals between two phyla/groups; CO3- To understand the environment in different spheres like atmosphere, lithosphere and hydrosphere, zoological survey of India: formation and role in animal conservation and causes and effects of space pollution CO4- To technically/scientifically make the students able to identify the non-chordate/invertebrates and classify them up to the class level with the basis of systematic and to comment upon them; CO5- To apply the scientific method and quantitative techniques to describe, monitor and understand environmental systems; CO6- To expose students to the various research-labs/-institutions or animal culture centers/museums. CO 7 – Virtual dissection by using computer software/programme.</p>

<p style="text-align: center;"><b>Semester02</b></p> <p>Paper - III : Life and Diversity of Animals- Non-chordates (Arthropoda to Hemichordate)</p> <p>Paper- IV :CellBiology</p> <p>Practical-II(BasedonPaperIII&amp;IV)</p>	<p>CO 1- To make students familiar with the non-chordate(withoutcord)animalsthatssurroundsusstartingfromarthropodstohemichordategroupofanimals;</p> <p>CO2- To reach out to their life cycles of key animals and evolutionary aspects including the connecting animals between two phyla/groups;</p> <p>CO3- To label the various cell parts and understand the structure of living cell and its organelles in relation to structure and function in significant types of cells such as prokaryotic-and eukaryotic-; plant-and animal-cell;</p> <p>CO 4 -To know the cellular cycle of propagation, cell-divisions (mitosis &amp; meiosis), -ageing and -death with an elementary introduction of cancer and its causative agents;</p> <p>CO 5 –To explain the ultrastructure and functions of various cell organelles.</p> <p>CO 6 - To have hands on experience/usage of pH-meter, microscopes and micrometer, weighing balance, solution making, staining and mounting of materials in practical sessions;</p> <p>CO7-To expose students to the various research-labs/-institutions or animal culture centers/museums/social outreach points if any in and around city per two semesters.</p>
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<p style="text-align: center;"><b>Semester03</b></p> <p>Paper- V:LifeandDiversityofAnimals- Chordates(Protochordata toAmphibia) Paper- VI:GeneticsPractical-III(Basedon PaperV &amp;VI)</p>	<p>CO1-To make students familiar with the chordate animals from protochordates to amphibian group of animals;</p> <p>CO2- To reach out to their life cycles of key animals and evolutionary aspects including the connecting animals between two phyla/groups;</p> <p>CO 3- To understand the process of development of animals; gametogenesis; fertilization; embryogenesis specially in frog including blastula, gastrulation and so on;</p> <p>CO 4-To impart the basic knowledge of genetics and Mendelian-cellular- and extracellular inheritance, linkage and crossing over concepts of genetic code and chromosomal studies, -aberrations, - abnormalities and including applied aspects of genetics such as DNA fingerprinting, karyotyping used for identifying genetic disorders/syndromes, preparation of stained slide of Giant Chromosome;</p> <p>CO 5-To solve the problems based on Sex linked inheritance, Monohybrid and dihybrid crosses and Hardy-Weinberg law;</p> <p>CO6- To have known practically about the hybrids and their ratio in genetics, karyotype studies of various syndromes, population genetic equilibrium with additional staining and mounting of materials for slide preparations;</p>
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<p style="text-align: center;"><b>Semester04</b></p> <p>Paper- VII:LifeandDiversityof Animals- Chordates(Reptilia,AvesandMammals) Paper- VIII:Molecular Biologyand Immunology Practical-IV (BasedonPaperVII&amp;VIII)</p>	<p>CO1- Tomakestudentsfamiliarwiththechordateanimalsinc luding reptiles, birds andmammals; CO2- Toreachouttotheirlifecyclesofkeyanimalsandevol utionaryaspectsincludingtheconnecting animals between two phyla/groups;CO 3- To understand the process ofdevelopmentofanimals;embryonicmembr anedevlopment; embryogenesis especially inhen/fowl, mammalian placental structure,functionsandadditionallystemcelle concept; CO4- Tohavetheelementaryknowledgeofmolecularconce ptinbiologyincludingDNA,RNAandrecombination, replicationsandprotein synthesis, the basic natural phenomenaoccurringinsidethecellandimmunologic alaspectsofhumanantigensandantibodiesandthe immune responses through T cells, B cells,cytokinesand immunedisorders; CO5 - To technically/scientificallly make students able to identify the chordate/vertebratesand classify them up to the class level with thebasis of systematic and to comment upon themincludingthebonesandtheembryodevelopment al stages of frog and fowl and theknowhowoftheimmuneorgansandinteractions ofantigenandantibodyinvitroinpracticalsessions.</p>
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<p align="center"><b>Semester05</b></p> <p>Paper-IX :GeneralMammalian PhysiologyI  Paper- X:AppliedZoologyI(AquacultureandEconomic Entomology)  Practical- V (BasedonPaperIX&amp;X)</p>	<p>CO 1-To define the basic terms in physiology,list the various types of enzymes, anatomy ofvarious systems, the physiological processes inmammals,tomakethemexplorethegeneralhuman physiology such as digestion, respiration,circulationandtheenzymeandhormonesi nvolvedinthese processes;  CO 2 –To explain the tools and techniques usedinaquaculture andagriculturalpractices;  CO 3 -To make them understand the economicsignificance, maintenance and the obstacles anddiseasesrelatedtothesepracticesandtheirmanage ment and control through chemicals orbiologicalindicators;  CO 4-To make them practically know how thepracticesarecarriedout,studentsaretakenotothepra cticesitesnearby;experimentallyestimating vitamins, foodstuffs in tha samples,the enzyme activities, blood cells counting foridentifyingdiseases,identifyingvariouspestsandt heircontrol.</p>
<p align="center"><b>Semester06</b></p> <p>Paper - XI : General Mammalian PhysiologyII  Paper - XII : Applied Zoology II(Biotechniques, Microtechnique,Biotechnology,Bioinformaticsa ndBiostatistics)  Practical- VI(BasedonPaperXI&amp;XII)</p>	<p>CO1- Toexplaintheanatomyofvarioussystemsandmakethe mexplrethegeneralhuman physiology such as neuron coordination,excretion,endocrinology,reproduction andendocrinedisorders;  CO2-Tomakestudentsknowabouttheanother advanced applied aspects of zoology by studying the micro technique for section cutting,doublestainingandpreparationofpermanents lides for study and research purposes, differentseparationprocessessuchaschromatograph yandelectrophoresis,estimatingdifferentmoleculeso fneedthroughcolorimeterorspectrophotometerandre gularorbasicbio-statistical,bio-technicalandbio- informationaltoolsforadvancestudiesandresearchm ethodologies,conclusivelythispaperpopsu aresearchtemperamentinthestudents;  CO 3- To create further interest into research,students are practically exposed to the differentbasicbio-statistical,bio-technicalandbio- informationaltoolsusedintoday'sresearchscenariosu chasdatahandling,analysis,databasesearcheswiththe helpofvariousadvancedprotocolsandtoolsavailableo nworldwideweb.p</p>



**Subject: Biotechnology Program Outcome:**

**PO1-**To exhibit, solve and understand major concept in all disciplines of Biotechnology

**PO2-** Apply Knowledge and principles of biological science to address the problem and find the solution to agricultural issues and medical issues through biotechnological tools and techniques.

**PO3-**To prove work for critical thinking and scientific knowledge to design, carry out record and analyse the result of biotechnological experiments.

**PO4-**Create an awareness of the impact of biotechnology on environment, society and development outside the scientific community.

**PO5-**Find out non-conventional route for biological reaction for sustainable and eco-friendly development.

**PO6-** To develop the scientific nature in the students and outside the scientific community and independently and illustrate the demonstration and sustainable development by the use of Biotechnology tools and techniques.

**PO7-**Use modern techniques, well standard equipment and instruments.

**Program Specific Outcome:**

**PSO1-**Gain the knowledge of Biotechnology through the theory and Practical

**PSO2-**Identify the societal problem and solve it.

**PSO3-**Explain and understand the good laboratory practical and safety.

**PSO4-**Develop research orientation courses and skills.

**PSO5-**Motivating to undergo for higher studies in the field of Biotechnology.

Course	Outcome:
<b>BT 101</b>  <b>Microbiology</b>  <b>(Semester I)</b>	CO1 –to get knowledge of history and development in Microbiology. Also to learn about different types of microscopy, stains and staining techniques. CO2 – to study morphology and subcellular structures of bacteria. To study in detail about bacterial cell walls and general idea about flagella and fimbriae. To learn about plasmids and its types. To study in detail about endospore structure, its formation, germination and basis of resistance. CO3 – to get brief idea of Bergey's manual. To learn about archaea and its cell membrane. Difference between archaeal cell membrane and bacterial cell membrane. About different archaea groups. To study about viruses and its types.  To have a brief idea about lytic cycle and lysogeny. CO4- to learn about nutrition and its requirements by bacteria. Nutritional Classification of bacteria. To learn about different types of media.

<b>BT 102</b>  <b>Macromolecules(Semester I)</b>	CO1-learn the basics of nucleic acid, DNA model, forces stabilizing DNA, Maxam and Gilbert DNA sequencing and structure of t-RNA CO2-learn the concepts of prokaryotic and eukaryotic genes and Chromatin structure CO3-learn the basic structure of amino acids, Classification, properties, reactions, titration curves and primary structure of proteins CO4-learn the secondary, tertiary and quaternary structure of proteins
<b>T 103</b>  <b>LAB Course(Semester I)</b>	CO1-to learn to use and care of microbiological equipments, preparation of media, sterilization and staining techniques. CO2- to study the estimation of proteins, DNA and RNA.
<b>BT 201</b>  <b>Microbiology &amp; Cell Biology(Semester II)</b>	CO1 – to study about microbial growth and its measurement. To learn about physical conditions required for microbial growth. CO2 – to study in detail microbial control. To learn about mechanism of cell injury. To study about different types of microbial control. CO3 –to study about cell biology of eukaryotic cell. To get knowledge about structure and functions of its components. CO4 – to study in detail about plant cell wall. To get brief idea about Mitosis and Meiosis and cell cycle. Learn about Muscle and Nerve cell structures, synaptic transmission and neuromuscular junctions.
<b>BT 202</b>  <b>Cell Constituents &amp; Enzymology(Semester II)</b>	CO1-learn the classification, nomenclature and structures of Carbohydrates CO2-learn the types of lipids, structures of saturated and unsaturated fatty acids, Terpenoids and Isoprenoids, concept of acid value, saponification value and iodine value  CO3- understand the basics and terminologies in Enzyme. CO4- learn the assay of Enzymes and Enzyme kinetics.

<b>BT 203</b>  <b>LAB Course(Semester II)</b>	CO1-To study the immobilization of enzyme, Quantitative estimation of proteins. CO2-To study pour plate, streak plate techniques, Antibiotic sensitivity, Oligodynamic action of metals and stages of Mitosis.
<b>BT 301</b>  <b>Metabolism (Semester III)</b>	CO1-learn the basic principles of Bioenergetics CO2- study the Structure of mitochondria with metabolic Pathways in the living cell CO3- study the Lipid Metabolism with fatty acid biosynthesis CO4- learn the Metabolism of Nitrogenous Compounds along with Nucleic Acid
<b>BT 302</b>  <b>Biophysical Techniques 1(Semester III)</b>	CO1 – to study and learn about Spectrophotometry. To learn Beer’s law – derivation and deviations, extinction coefficient. Difference between spectrophotometer and colorimeter. To learn instrumentation of different types of spectrophotometry. CO2 – to study about application of UV and visible spectrophotometry. To study principle, instrumentation and applications of Spectrofluometry, absorption and Emission Flame Photometry, IR and Mass Spectrometry.  CO3 – to learn basic concept of Chromatography. Its various types, their working and applications. CO4 – to learn in detail about principle and applications of Ion – exchange chromatography, Affinity chromatography and High pressure liquid chromatography.

<b>BT 303</b>  <b>LAB Course (Semester III)</b>	CO1- to learn about chromatography techniques & estimation techniques CO2 –to experimentally learn about working of spectrophotometer and colorimeter. CO3 - to learn about isolation, cellular fractionation and titration techniques.
<b>BT 401</b>  <b>Immunology (Semester IV)</b>	CO1-understand the basic concept of immune system of human beings CO2-learn the structure of Antibody its classes, major histocompatibility complex & mechanism behind immunogenic responses CO3- understand the concept of Hypersensitivity, Vaccination CO4- study the antigen-antibody interaction and different assays and application in diagnosis and monoclonal antibody production.
<b>BT 402</b>  <b>Biostatics &amp; Biophysical Techniques 2</b>	CO1 – to learn about electrophoresis and factors affecting its mobility. To study about Paper Electrophoresis, Cellulose Acetate Electrophoresis, High
<b>(Semester IV)</b>	Voltage Electrophoresis, Gel Electrophoresis. CO2 – to learn about SDS PAGE, Isoelectric focussing, Pulse Field Gel Electrophoresis, their principle, working and applications. CO3 - to study about Isotopic Tracer Technique. To study about radioactive and stable isotopes, measurement of radioactivity, measurement of stable isotopes, principles of tracer technique. CO4 – to know basic concept of centrifugation, its principle, instrumentation, working and types. To learn about different types of centrifuges. To study about Biostatistics. To learn basic concept of mean, median, mode, standard deviation and standard error.

<b>BT 403</b>  <b>LAB Course (Semester IV)</b>	CO1 – to learn various immunological assays. CO2 – to gain practical knowledge of different types of electrophoresis. CO3 – to learn about solving different biostatistical problems.
<b>BT 501</b>  <b>Molecular Biology(Semester V)</b>	CO1-learn molecular events in the DNA replication and role of different enzymes. CO2-understand the basic concept of mutation, DNA repair and recombination. CO3- study the overview of centraldogma of life. CO4-describe the process of transcription and its regulation.
<b>BT 502</b>  <b>Molecular Biology &amp; rDNA Technology (Semester V)</b>	CO1-learn the concepts of Genetic code, decoding system, codon-anticodon interaction and selection of initiation codon CO2-learn the Initiation, Elongation, Termination and Regulation of Translation CO3-learn the DNA cloning, variousvectors, cutting and joining of DNA, Selection and screening methods CO4-learn the concepts of Genomic DNA library and cDNA library, PCR, Expression of cloned genes and application of r-DNA technology
<b>BT 503</b>  <b>LAB Course(Semester V)</b>	CO1-acquire knowledge , skills on techniques of genomic DNA and Plasmid DNA isolation CO2- to study the fundamental molecular laboratory techniques.

<b>BT 601</b>  <b>Application of Biotechnology(Semester VI)</b>	CO1-learn the methods of waste water treatment in environmental biotechnology ,basic knowledge of biodegradation CO2- assist the Quality of water andwaste water ,Principle of IMViC, CO3-study the basic Principle of Industrial Biotechnology along withGMO's and its application. CO4- study Industrial awareness about ,Cheese Production ,Mushroom cultivation, Quality control and qualityassurance in food and pharmaceutical industry.
<b>BT 602</b>  <b>Animal &amp; Plant Biotechnology(Semester VI)</b>	CO1-Introduction to cells and Tissue culture, media, Callus and suspensioncultures CO2-learn the Micropropagations, callus formation, Ti plasmid, transgenic plants, Bt cotton, applications CO3-learn the various techniques of animal cell and tissue culture, characteristics of cells in culture, primaryculture, immortal cells, cell lines and maintenance CO4- learn the recombinant DNA products in medicine, gene therapy, transgenic animals, In vitro fertilizationand embryo transfer.
<b>BT 603</b>  <b>LAB Course (Semester VI)</b>	CO1-to Study the and develop keen scientific interest in environmental Biotechnology CO2-learn different tools and techniquesin various application of Food,Industrial Biotechnology for society.

## **B.Sc. Microbiology**

### **Program Outcome:**

**PO1**-To exhibit, solve and understand major concept in all disciplines of Biotechnology

**PO2**- Apply Knowledge and principles of biological science to address the problem and find the solution to agricultural issues and medical issues through biotechnological tools and techniques.

**PO3**-To prove work for critical thinking and scientific knowledge to design,carry out record andanalyse the result of biotechnological experiments.

**PO4**-Create an awareness of the impact of biotechnology on environment, society anddevelopment outsides the scientific community.

**PO5**-Find out non-conventional route for biological reaction for sustainable and eco-friendly

development.

**PO6-** To develop the scientific nature in the students and outside the scientific community and independently and illustrate the demonstration and sustainable development by the use of Biotechnology tools and techniques.

**PO7-**Use modern techniques, well standard equipment and instruments.

**Program Specific Outcome:**

**PSO1-**Gain the knowledge of Biotechnology through the theory and Practical

**PSO2-**Identify the societal problem and solve it.

**PSO3-**Explain and understand the good laboratory practical and safety.

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<b>BT 103</b> <b>LAB Course(Semester I)</b>	CO1-to learn to use and care of microbiological equipments, preparation of media, sterilization and staining techniques. CO2- to study the estimation of proteins, DNA and RNA.
<b>BT 201</b> <b>Microbiology &amp; Cell Biology (Semester II)</b>	CO1 – to study about microbial growth and its measurement. To learn about physical conditions required for microbial growth. CO2 – to study in detail microbial control. To learn about mechanism of cell injury. To study about different types of microbial control. CO3 –to study about cell biology of eukaryotic cell. To get knowledge about structure and functions of its components. CO4 – to study in detail about plant cell wall. To get brief idea about Mitosis and Meiosis and cell cycle. Learn about Muscle and Nerve cell structures, synaptic transmission and neuromuscular junctions.
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<b>BT 302</b> <b>Biophysical Techniques 1 (Semester III)</b>	CO1 – to study and learn about Spectrophotometry. To learn Beer's law –derivation and deviations, extinction coefficient. Difference between spectrophotometer and colorimeter. To learn instrumentation of different types of spectrophotometry. CO2 – to study about application of UV and visible spectrophotometry. To study principle, instrumentation and applications of Spectrofluometry, absorption and Emission Flame



	<p>Photometry, IR and Mass Spectrometry.</p> <p>CO3 – to learn basic concept of Chromatography. Its various types, their working and applications.</p> <p>CO4 – to learn in detail about principle and applications of Ion – exchange chromatography, Affinity chromatography and High pressure liquid chromatography.</p>
<b>BT 303</b>  <b>LAB Course (Semester III)</b>	<p>CO1- to learn about chromatography techniques &amp; estimation techniques</p> <p>CO2 – to experimentally learn about working of spectrophotometer and colorimeter.</p> <p>CO3 - to learn about isolation, cellular fractionation and titration techniques.</p>
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<b>BT 402</b>  <b>Biostatistics &amp; Biophysical Techniques 2</b>  <b>(Semester IV)</b>	<p>CO1 – to learn about electrophoresis and factors affecting its mobility.</p> <p>To study about Paper Electrophoresis, Cellulose Acetate Electrophoresis, High Voltage Electrophoresis, Gel Electrophoresis.</p> <p>CO2 – to learn about SDS PAGE, Isoelectric focussing, Pulse Field Gel Electrophoresis, their principle, working and applications.</p> <p>CO3 - to study about Isotopic Tracer Technique. To study about radioactive and stable isotopes, measurement of radioactivity, measurement of stable isotopes, principles of tracer technique.</p> <p>CO4 – to know basic concept of centrifugation, its principle, instrumentation, working and types. To learn about different types of centrifuges.</p> <p>To study about Biostatistics. To learn basic concept of mean, median, mode, standard deviation and standard error.</p>
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<b>BT 603</b>	CO1-to Study the and develop keenscientific interest in environmental Biotechnology
<b>LAB Course (Semester VI)</b>	CO2-learn different tools and techniquesin various application of Food,IndustrialBiotechnology for society.

## Bachelor of Computer Application

**Program Outcome:** After successful completion of six semester Bachelor of Computer Application (BCA) course with a duration of three academic years, students would have acquired various skill sets required to gain an entry into IT industry as a software professional. Aspiring students can also progress to a top-notch Master of Computer Application (MCA) degree which has a better salary potential.

**Program Specific Outcome:** Students will have / be

- *Proficiency in Object Oriented Programming Languages* namely C++, Core Java
- Command over Data Structures and Algorithms
- Expertise in .NET technologies namely VB.NET and ASP.NET
- Skills required to build dynamic websites namely HTML, CSS, DHTML, JSP, Java
- Script and VB script, PHP
- Good Database skills
- Command over various aspects of Computer Graphics namely hardware, algorithms and applications
- Adequate knowledge of function and working principles of System Software namely Operating System and Compiler
- Well versed with software development methodologies
- Skills required for developing high quality Information System which combines Information Technology, people and Data to support business requirement.
- Skills to draw proper conclusions from the given data using various statistical techniques.
- Good at solving those problems which cannot be solved analytically by using various Numerical methods
- Expertise in finding optimum solutions to real life problems represented as mathematical models by using various techniques belonging to Operation Research field

S.No	Course Name	Course Outcome
<b>Semester - I</b>		

1	<b>Computer Fundamentals</b>	<p>After completion of this course , students will</p> <p>Have the knowledge of basic components of computer including peripheral devices and their working</p> <p>Know the evolution of programming languages</p> <p>Have basic knowledge of software code converting tools.</p> <p>Have basic knowledge of network terminologies and devices, network architecture and protocols.</p>
2	<b>‘C’ Programming Language</b>	<p>After successful completion of this course , students</p> <p>Can write flowcharts and algorithms for simple mathematical problems</p> <p>Will have good understanding of programming constructs</p> <p>Can write modular code for simple mathematical problems in C using primary and derived data types and various programming constructs.</p> <p>Can also write programs to manipulate files on the local file system.</p>
3	<b>Statistical Methods</b>	<p>After successful completion of the course, students learn to</p> <p>Gather, review and present the data in meaningful ways so that proper conclusions can be drawn.</p> <p>Give the descriptive summary of the entire data using measures of central tendency</p> <p>Can describe the spread of data using dispersion measures</p> <p>Can measure linear association between two variables using correlation and predict how a</p>

		dependent variable changes when changes are made to independent variable using regression
<b>4</b>	<b>Discrete Mathematics – I</b>	<p>After completion of this course, students can/have</p> <p>Formulate, interpret and determine the validity of statements by applying the rules and methods of propositional and predicate logic.</p> <p>Apply the logical structure of proofs and work symbolically with connectives and quantifiers to produce logically valid, correct and clear argument</p>
<b>5</b>	<b>Operating Systems</b>	<p>After completion of this course, students should describe</p> <p>History of OS leading to current form</p> <p>Structure , function and components of OS</p> <p>Memory, I/O and File management techniques</p> <p>Various CPU scheduling algorithms</p> <p>Methods for performance comparison of CPU scheduling algorithms</p> <p>The concept of deadlock, its detection, prevention and recovery</p>
<b>6</b>	<b>Office Automation</b>	<p>After completion of this course, students can</p> <p>Create professional looking documents with text, tables, images, hyperlinks, and watermarks in Microsoft Word</p> <p>Send same document to multiple recipients using mail merge of MS-Word</p> <p>Design and create accurate professional worksheets for use in business and industry, and academic environments by using various formatting techniques and mathematical formulae using MS-Excel</p>

		<p>Present the data visually using graphs in MS-Excel</p> <p>Create power point presentations using tables, clipart and animations</p>
<b>Semester –II</b>		
<b>11</b>	<b>Programming In ‘C++</b>	<p>After completing this course, students</p> <p>Will have detailed knowledge of object oriented programming</p> <p>Will have thorough understanding of constructors, destructors, inheritance and polymorphism which lay a good foundation for mastering other programming languages like java and .net</p> <p>Can describe and apply the concept of function overloading, operator overloading and virtual functions</p> <p>Can manage memory using dynamic memory management techniques</p> <p>Good understanding of exception handling techniques</p> <p>Can write programs demonstrating the above concepts using C++</p>
<b>12</b>	<b>System Analysis and Design</b>	<p>After studying this important subject , student</p> <p>Can analyse the existing systems and develop requirements for new systems considering software reusability</p> <p>Can use various data collection methods for collecting data to new systems</p> <p>Can use structured tools and techniques to analyse the data</p> <p>Can design, code, test and implement the new system and also can access the software reliability and quality</p> <p>Good knowledge of System Evaluation</p> <p>Can schedule the entire project using various project management tools</p>
<b>13</b>	<b>Numerical Methods</b>	<p>After completion of the course, students</p> <p>Can apply numerical methods to find out solution of algebraic equations, Polynomial equation and Transcendental equation, under different conditions</p> <p>Can find out solutions to linear and non linear</p>

		<p>equations using various methods</p> <p>Can linearly interpolate value between two points on a line or curve using different methods</p> <p>Can find the numerical value of a derivative of a given function at a given point using various numerical differentiation methods</p> <p>Can approximately compute the value of an integral using various numerical integration techniques.</p>
<b>14</b>	<b>Discrete Mathematics-II</b>	<p>After Completion of this course, students can/have</p> <p>The ability to solve problems using counting techniques, permutation and combination, recursion and generating functions.</p> <p>Perform operations on various discrete structures such as sets, functions, relations, and sequences</p> <p>Use graphs and trees as tools to visualize and simplify Problems.</p> <p>Understand the various properties of algebraic systems like Groups and subgroups</p>
<b>15</b>	<b>Linux OperatingSystem</b>	<p>This course introduces the student to the Linux Operating system with a particular emphasis on command line tools, utilities and shell scripting.</p> <p>Students can backup and restore file system using simple tools</p> <p>Students can compress , expand and share files usingtools</p> <p>Students can efficiently manage the disk space using various commands</p> <p>Students will have knowledge of various desktop environments like KDE and Genome</p>

16	E-Commerce	<p>After successful completion of the course, students</p> <p>Understand the business, web technology and network concepts of electronic market in the fastchanging business environment.</p> <p>Can formulate business strategy</p> <p>Can implement and evaluate an e-commerce platform</p> <p>Good knowledge of B2B <i>E-Commerce</i>, or <i>Business to Business Electronic Commerce</i>, which involve the sale of products and services between companies through an online sales portal</p> <p>Good knowledge of B2C (<i>Business-to-Consumer</i>) <i>e-commerce</i> which involve the online sale of products or services of a business to consumers.</p>
<b>Semester - III</b>		
21	Visual Basic Programming	<p>After completion of this course, students can</p> <p>Use modern integrated development environment to create programs with attractive graphical user interfaces by making use of various components and basic programming constructs</p> <p>Understand and use the event-driven model</p> <p>Can update databases through VB Programs using DAO and ADO data controls</p> <p>Can generate data reports</p>
22	Data Base Management Systems	<p>After completion of this course, students have</p> <p>Knowledge of DBMS architecture and components and the roles of various personnel involved in data base management system</p> <p>Good knowledge of data models like E-R Models and Relational models which show how data is stored, connected, accessed and updated in the <i>database management system</i>.</p> <p><b>Good knowledge of Functional Dependency (FD)</b> which determines the relation of one attribute to another attribute in a database management system</p>



		<p>(DBMS) system. Knowledge of FD is very important as it helps to maintain the quality of data in the database</p> <p>Can minimize or eliminate redundancy in database tables using various normal forms</p>
23	<b>Data Structures</b>	<p>After completion of this course, students can</p> <p>Emphasize the importance of data structures in developing and implementing efficient algorithms.</p> <p>Can select an efficient data structure in terms of time and space for any application as they have thorough knowledge of linear and non linear data structures namely arrays, linked list, stack, queues, trees and graphs</p> <p>Can solve problems using recursion</p> <p>Can convert arithmetic expression to easily parsable , parenthesis-less prefix and postfix form using stacks.</p> <p>Good knowledge of various sorting techniques and its efficiency</p>
24	<b>Operations Research-I</b>	<p>After completion of this course, students can</p> <p>Construct a mathematical model around the problem that resembles the real world</p> <p><i>Can use various methods of Linear programming</i> , a method to achieve the best outcome such as maximum profit or lowest cost or lowest time in a mathematical model whose requirements are represented by <i>linear</i> relationships.</p> <p>Can solve Transportation and Assignment problems which deal with assigning sources and jobs to destinations and machines.</p>

25	Web Technologies-I	<p>After successful completion of the course, students</p> <p>Good understanding of terms related to internet and working of internet</p> <p>Have good working knowledge of Hyper Text Markup language(HTML) and Cascading Style Sheet(CSS)</p> <p>Have knowledge of Dynamic HTML(DHTML) which , is a collection of technologies used together to create interactive and animated websites</p>
26	Digital Electronics-I	<p>After completion of this course, students can/have</p> <p>Thorough knowledge of data representation using various number systems and binary codes</p> <p>Knowledge of digital <i>logic gate</i> which forms the basis of all <i>digital electronic circuits</i> and microprocessor based systems</p> <p>Thorough knowledge of Boolean Algebra which is the mathematical foundation of digital circuits including simplification using Karnaugh map</p>
<b>Semester – IV</b>		
27	Software Engineering -I	<p>After successful completion of the course, students can/have</p> <p>Good knowledge of Capability Maturity Model Integration (CMMI), a framework used to analyse the approach to software development and provides guidelines for further improving the software product</p> <p>Knowledge of various software process model which represents the order in which the activities of software development will be undertaken.</p> <p><i>Knowledge of requirements engineering</i> which is the process of understanding and defining the services that are required and the constraints associated with these services</p> <p>Knowledge of <i>design engineering</i> to generate a model which shows firmness, delight and commodity.</p>
28	SQL and PL SQL	<p>After completion, students have/can</p> <p>Mastery over various commands used in SQL to define , control, and manipulate data and to control transaction in a database</p> <p>Knowledge of views to accelerate data analysis and provide extra data security</p> <p>Can write PL SQL program using basic constructs, exception handling, cursors, stored functions and procedures, triggers</p>

29	<b>Theory of Computation</b>	<p>After completion, students</p> <p>Can write <i>regular expression</i> to describe a pattern of characters</p> <p>Can design <i>Finite Automata</i> (FA) , a simple machine to recognize patterns.</p> <p>Can write production rules to generate patterns of strings using Context Free Grammar (CFG)</p> <p>Can simplify CFG using various normal forms</p> <p>Have knowledge of Regular and Context Free languages including properties</p> <p>Can design push down automata to recognize CFG</p>
30	<b>Operations Research-II</b>	<p>After successful completion of the course, students can / have</p> <p>Knowledge of Game theory in decision making which is the process of modeling the strategic interaction between two or more players in a situation containing set rules and outcomes.</p> <p>Knowledge of PERT and CPM which are techniques of project management useful in the basic managerial functions of planning, scheduling and control.</p> <p>Good knowledge of inventory control techniques</p> <p>Can conduct a mathematical study of the congestion and delays of waiting in line</p>
31	<b>Web Technology-II</b>	<p>After successful completion of the course, students</p> <p>Have knowledge of Java Server Pages (<i>JSP</i>), a server side technology for developing dynamic web pages.</p> <p>Have knowledge of VB Script and Javascript which are client side scripting languages</p> <p>Can propagate communication between the client and server applications on the World Wide using web services</p>
32	<b>Digital electronics -II</b>	<p>After successful completion of the course, students</p> <p>Can construct sequential digital logic circuits using various flip-flops</p> <p>Can construct combinational digital logic circuit using adders, subtractors, encoders, decoders, multiplexers and demultiplexers</p> <p>Have Knowledge of architecture and addressing modes of 8086</p> <p>Can write simple assembly programs</p>
33	<b>Environmental Studies</b>	<p>Environmental studies creates the awareness towards surrounding environment.</p> <p>After learning about EVS , one can easily develop his/her skills by choosing any particular platform</p>

		<p>and can make a career in it and can apply his/her abilities in real life applications.</p> <p>An Environmental Studies major will be able to critically examine all sides of environmental issues.</p> <p>Would be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function.</p> <p>Would be able to apply in various courses through field experiences.</p>
	<b>Computer Graphics</b>	<p>After completion, students can/have</p> <p>Knowledge of various algorithms for scan conversion and filling of basic graphic objects</p> <p>Knowledge of 2d and 3d geometric transformations on graphics objects and their application in composite form</p> <p>Can extract the scene with different clipping methods and its transformation to graphics display device.</p> <p>Can use projections and visible surface detection techniques for display of 3D scene on 2D screen</p> <p>Knowledge of computer animation</p>
	<b>Compiler Construction</b>	<p>After completion, students</p> <p>Have good knowledge of major phases of compilation</p> <p>Have knowledge of lexical and syntactic structure of the programming language</p> <p>Have knowledge of design and implementation of lexical analysers</p> <p>Can explain the role of a parser in a compiler and relate the yield of a parse tree to a grammar derivation;</p> <p>Can design and implement a parser using a typical parser generator</p> <p>Knowledge of various code optimization techniques</p> <p>Can apply the code generation algorithms to get the machine code for the optimized code.</p>
	<b>VB.NET</b>	<p>After completion, students</p> <p>Have good understanding of .NET framework</p> <p>Can create GUI applications</p> <p>Can design and implement interfaces</p> <p>Have knowledge of adapter design pattern which allows otherwise incompatible classes to work together</p> <p>Have knowledge of exception handling and various debugging tools</p>

	<b>PHP</b>	<p>After completion of the course, students can/have</p> <p>Install PHP on windows and Linux platforms</p> <p>Use basic constructs of PHP and embed PHP in web pages</p> <p>Use regular expressions in PHP</p> <p>Knowledge of communication between webpages and PHP</p> <p>Manage databases through PHP</p> <p>Knowledge of form handling and browserinteraction in PHP</p> <p>Use cookies in PHP</p> <p><i>Knowledge of PHP</i> functions to handle files on <i>FTP</i> server</p> <p>Knowledge of shell access from the browserthrough PHP shells</p> <p>Send emails using PHP</p>
	<b>Data Communicationand Network</b>	<p>After completion, students can/have</p> <p>Understand the basics of data communication, networking, internet andtheir importance.</p> <p>Knowledge of Asynchronous and Synchronous data transmission</p> <p>connect multiple communicating devices with one another using circuit switching and packet switching</p> <p>Knowledge of features of various protocol layers in data networks.</p> <p>Thorough knowledge of transport and session protocols</p> <p>Knowledge of ISDN and Broadband</p>
	<b>Programming inJava</b>	<p>After course completion, students can/have</p> <p>Identify classes, objects, members of a class and relationships among them needed for a specific problem</p> <p>Write Java application programs using the concept of inheritance, interfaces, packages, abstract classes and threads</p> <p>Write programs to implement error handling techniques using exception handling</p> <p>Can write event driven applets and applications using AWT</p>
	<b>ASP.NET:</b>	<p>After completion, students can/have</p> <p>Knowledge of Extensible Markup Language(<b>XML</b>)</p> <p>Knowledge of web forms</p> <p>Knowledge of client side and server sidevalidation</p> <p>Managing databases</p>

**Subject: BCCA**

- **Program Outcome:** To develop the abilities to understand the problem and providingeffective and feasible solution. Problem solving abilities using a computer.

- To develop his/her skills by choosing any particular platform and can make a carrier in it and can apply his/her abilities in real life applications.
- Apply the knowledge of mathematics, accounting fundamentals, and computer specialization to the solution of complex accounting, management and reducing software development problems.
- Analyze and Identifying the root of socio – economic problems and threats to arrive at substantiated and optimal conclusions using programming skills for both system and application software.
- Design solutions for economic problems and design software processes for betterment of humanity and to make the environment more better place to live.
- Conducting Online and manual survey for collecting the data to analyze, interpret and investigate the complex problem to reach the valid conclusion with optimal solution.
- Create, select and apply appropriate techniques, resources, and modern statistical tools & software.
- Making a solution by strictly following all the ethics and rules of Cyber law and Intellectual property rights.
- To develop highly secured software applications and make use of safest networking protocol (e.g. HTTP, FTP, SMTP etc) to avoid piracy and unauthorized access.
- To develop leadership quality and effective communication skills with experts and team members.
- Students get the basic knowledge of developing commercial software.

**Program Specific Outcome:** On Successful completion of degree course where BCCA is one of the courses, students will gain basic knowledge about all subjects in BCCA and will be able to develop new applications according to the requirement.

Also he/she would be able to show his/her skills in a competitive corporate world which requires complete knowledge of software programming, accounting, taxation, banking, insurance, corporate law, etc.

Course	Outcome
BCCA- Part-I Semester – I English and Business Communication - I	<p>To develop language skills for business management.</p> <p>To improve reading, writing and speaking skills, as well as vocabulary development for various business situations.</p> <p>Effective communication is an essential part of life. This course helps to develop verbal and non-verbal communication ability.</p>

	<p>The course also helps to develop the skill of drafting various business correspondences like letters, memos, emails etc.</p>
BCCA- Part-I Semester – I Financial Accounting	<p>It provides basic knowledge of functions of Financial Accounting.</p> <p>It helps in application of rational financial decision making.</p> <p>It provides knowledge how to record the business transactions.</p> <p>It helps to understand how to control the expenses.</p> <p>It provides knowledge relevant Financial Accounting career in business.</p>
BCCA- Part-I Semester – I Fundamentals of Computer	<p>As the name indicates, it gives complete knowledge of fundamental concepts of Computer like assembly, block diagram, functions and working of computers.</p> <p>It also gives the knowledge of various hardware and accessories like RAM, ROM, HDD, various input and output devices like keyboard, mouse, monitor printer along with their composition and working.</p> <p>Students get the knowledge of origin of computers, its technical upgradation around decades and various types.</p> <p>It gives the practical knowledge of Government recognized course MS-Office and its tools like MS-Word, Excel, PowerPoint presentation etc. to make effective documentation and presentations.</p> <p>It provides a complete idea of Computers even to a lay person who is completely unknown to computers.</p>
BCCA- Part-I Semester – I Programming in 'C'	<p>It provides the basic knowledge to enter in the programming world.</p> <p>'C' Language is the mother of all programming language. If one achieves expertise in 'C' Language, he/she can easily learn any other programming</p>

	<p>language.</p> <p>After learning 'C' Language one can easily developed commercial application also.</p> <p>Example: medical shop software are generally developed in 'C' Language.</p> <p>Next step to 'C' Language i.e. 'C++' Language will be easy to learn for 'C' programmers.</p> <p>Would be able to develop all procedural based solution using 'C' Language.</p>
BCCA- Part-I Semester – II English and Business Communication – II	<p>To develop language skills for business management.</p> <p>To improve reading, writing and speaking skills, as well as vocabulary development for various business situations.</p> <p>Effective communication is an essential part of life. This course helps to develop verbal and non-verbal communication ability.</p> <p>The course also helps to develop the skill of drafting various business correspondences like letters, memos, emails etc.</p>
BCCA- Part-I Semester – II Principles of Business Management	<p>This subject is multimodal, multidisciplinary approach adopted to limit the use and the need.</p> <p>This subject is the activities of the planning, organizing, controlling, operations of the basic elements of materials, machines, methods, money and markets providing direction and co-ordination and giving leadership to human efforts so as to achieve.</p> <p>PBM is the backbone of running successful organization.</p> <p>Its provides all management techniques and tools.</p> <p>Its provides also idea about need of planning and controlling .</p> <p>Its explains the essential things for successful business management.</p>
BCCA- Part-I Semester – II	C++, a high level Object oriented



Programming in C++‘	<p>programming language and is a next step to Programming in C. which is again very helpful in learning many other high level programming languages if one is really deep into it.</p> <p>After learning C++, one can also make his career in gaming applications since C++ is very useful in making console and windows based gaming applications also.</p> <p>C++ developers can also make use of their skills in embedded systems and OS related work.</p> <p>C++ developers are very much in demand for making desktop based applications.</p> <p>C++ is platform independent and can be run on any Operating system and it doesn't include any complicated steps to install C++.</p>
BCCA- Part-I Semester – II E-Commerce and Web Designing	<p>The Web Graphic Design and Programming and ecommerce is to designing and scripting small business marketing and commercial websites.</p> <p>Students who have programming skills and would like to gain creative design and ecommerce skill, or for students who have creative graphic design/art skill and would like to gain skills in programming and ecommerce.</p> <p>Students learn to create a Web page from scratch, manipulating HTML.</p> <p>Students should learn how to mark up documents with sections, asides, navigation, headers and footers from the start.</p>
BCCA- Part-II Semester – III Environmental Studies	<p>Environmental studies create the awareness towards surrounding environment.</p> <p>2. After learning about EVS one can easily develop his/her skills by choosing any particular platform and can make a career in it and can apply his/her abilities in real life applications.</p> <p>An Environmental Studies major will be able to critically examine all sides of</p>

	<p>environmental issues.</p> <p>Would be able to recognize the physical, chemical, and biological components of the earth's systems and show how they function.</p> <p>Would be able to apply lessons from various courses through field experiences.</p>
BCCA- Part-II Semester –III Business Economics	<p>Understand the working of the economy. Students study the analysis of individual, industries, wages and salaries determination, individual taxes and international trade. Most of the government activities can be analyzed with same concept applied to private sector.</p> <p>e.g. price determination by post office.</p> <p>It provides study of efficient allocation of resources for producers and consumers. It studies how resources are allocated in the production of goods and services, which commodity is to be produced, how much and why produced.</p> <p>The study is useful for business decision making. It contributes improved decision making in the area of demand analysis, optimal production decision, pricing decision and factors of production.</p> <p>The study is important for study of human behavior. The law of diminishing utility, marginal utility and indifference curve theory all study human behavior.</p> <p>e.g. Decrease in price of any commodity, there is increase in the demand of that product.</p>
BCCA- Part-II Semester –III Visual Basic Programming	<p>It is procedure based language. Students can easily create windows applications.</p> <p>By using VB they can create small projects at this level.</p> <p>It is beneficial for students to enter in to companies.</p> <p>After learning VB they will</p>

	<p>comfortable to study VB.NET.</p> <p>By learning VB students can develop projects for shops, small industries...etc.</p>
BCCA- Part-II Semester –III Database Management System	<p>Database management system provides you the knowledge of all the functions and attributes regarding databases.</p> <p>It is very useful for those who are planning to make their career in Backend development.</p> <p>It is equally essential as frontend development since database handling is very much essential in order to maintain the records and fields.</p> <p>After learning about DBMS, student would be able to perform simple as well as complex database SQL queries like creating database and table. Also inserting, deleting, updating and fetching record from the database.</p> <p>There are lots of job opportunities and there is a chance of becoming DBA (Database Administrator) which is the topmost post in Database field.</p>
BCCA- Part-II Semester –IV Statistical Techniques	<p>Statistical techniques enable the learner to increase the analytical capacity.</p> <p>It helps to increase the reasoning ability.</p> <p>Statistical tools sharpen the logical thinking.</p> <p>Statistical techniques develop more numerical sense to the students.</p> <p>Statistical techniques help in predicting future trends depending upon present and past data.</p>
BCCA- Part-II Semester –IV Business Law	<p>It provides the basic knowledge of law relating to business, such as contract act, Goods act, IT act, Partnership act</p> <p>.LLP act and negotiable instrument act.</p> <p>Indian Contract act provide to get the students conversant with the legality of the contract and the rules laid down by the government.</p> <p>Sale of goods act provides the legal existence between the buyer and seller.</p>

	<p>IT act helps the students to get acquainted with the procedures of all the online transactions.</p> <p>Partnership act which is one of the business forms of unit provides the SME's and MSME's facility provided by the government and strengthens their units as well the nation.</p> <p>All the instruments which high importance in the legislations are studied and make aware to the society regarding any deal at large.</p>
BCCA- Part-II Semester –IV Core Java	<p>Understand the concept of OOP as well as the purpose and usage principles of inheritance, polymorphism, encapsulation and method overloading.</p> <p>Create Java application programs using sound OOP practices (e.g., interfaces and APIs)</p> <p>Use the Java SDK environment for testing and debugging tools to automatically discover errors of Java programs.</p> <p>Have the ability to write a computer program to solve specified problem.</p> <p>Develop programs using the Java Collection API as well as the Java standard class library.</p>
BCCA- Part-II Semester –IV PHP & Mysql	<p>PHP and MYSQL involve knowledge of both front end as well as backend, so student will be able to perform both application based and database related operations.</p> <p>Student will become professional web based developer since PHP is mostly used to develop dynamic web based applications.</p> <p>It is much more compatible object oriented programming language which is easy to learn and student can also learn to develop desktop based applications with PHP.</p>
	<p>Nowadays PHP is very much in demand in Software industries, since it is easy to develop and lots of job openings are there.</p>

BCCA- Part-III Semester –V Computerized Accounting using Tally	<p>Tally software is a complete Accounting, Inventory, Taxation and Payroll software. Tally 9 ERP software is considered as one of the best Accounting software. Tally is capable of handling any kind of business transactions</p> <p>Accounting Billing Sales and profit analysis Banking Inventory</p> <p>It provides of reports are required at different times for making effective business decisions. In Tally, there are reports such as Statutory Reports, Payroll Reports, Job Work In and Out Reports and the most significant Exception Reports in Tally.</p>
BCCA- Part-III Semester –V VB.Net	<p>After getting knowledge of Visual Basic students can easily learn VB.Net</p> <p>By using VB.Net they can create small projects at this level.</p> <p>It is beneficial for students to enter into the companies as a software developer.</p> <p>Students can develop applications as well as games by using VB.NET</p>
BCCA- Part-III Semester –V SEC – I : (i) Management Information Systems	<p>It is easy to learn and understand MIS since it is useful in day to day life.</p> <p>It is useful to manage the information of each and every project.</p> <p>It is helpful for accessing information in integrated environment and to create reports.</p> <p>It is useful to develop many e-commerce based applications and online businesses.</p> <p>It is useful for development and enhancement of software and hardware individually.</p>
BCCA- Part-III Semester –V SEC – I : (ii) System analysis & Design	<p>It is useful in every aspect to identify and analyze various types of information systems concepts and terminologies to reach at valid</p>

	<p>conclusion and to find optimized solution.</p> <p>It is very useful to explain the types of business needs that can be expressed using information technology based solutions.</p> <p>The System Development Life Cycle (SDLC) helps to implement the different phases of project step by step</p> <p>It helps in making the project technically and economically feasible to avoid over budgeting.</p> <p>Boost up communication and interviewing skills to develop leadership quality.</p> <p>It is very effective in developing system project documentation.</p>
BCCA- Part-III Semester –V DSE– I : (i) Cost & Management Accounting	<p>This subject is very important and useful for any organization for how to use optimum utilization of existing resources.</p> <p>It provides students with an understanding of management accounting concepts related to management, planning, control and decision making.</p> <p>It makes efficient spending decision based on a strategic vision.</p> <p>It's clear the formal mechanism by means of which cost of products or services is ascertained and controlled.</p> <p>It's clear costing of products, and assets and liabilities of enterprises or organization/ institutions.</p> <p>It gives clear and confirms idea about production costing, gross profit, net profit.</p>
BCCA- Part-III Semester –V DSE– I : (ii) Corporate Accounting	
BCCA- Part-III Semester –VIC#.Net	<p>Knowledge of .NET framework</p> <p>Knowledge of basic constructs of C#.NET</p> <p>Knowledge of structures, enumerations, properties and indexers</p> <p>Knowledge of inheritance, interfaces</p>

	<p>and abstract classes</p> <p>Knowledge of exception handling</p>
<p>BCCA- Part-III Semester –VISEC– II : (i)</p> <p>Python</p>	<p>Python is a high-level language and can do complex tasks, Python is easy to learn and has a clean syntax.</p> <p>Python is one of the most loved programming languages by developers, data scientists, software engineers, and even hackers because of its versatility, flexibility, and object-oriented features.</p> <p>Many of the web and mobile applications we enjoy today is because of Python's abundant libraries, various frameworks, vast collections of modules, and file extensions.</p> <p>It will help students to reach new heights in the field of Artificial intelligence also since programmers are making lots of use of python in AI.</p> <p>It is an open source which can be downloaded freely if anyone wants to practice python.</p> <p>After learning Python, one can also make his career in :</p> <p>Multiple Programming Paradigms, Web Testing, Data Extraction, Artificial Intelligence (AI) and Data ,Science Researches, Web Application and Internet Development, Database Easy Access, Interface Customization, and Quick System Integration, Cyber security , etc.</p>
<p>BCCA- Part-III Semester –VI</p> <p>DSE– II : (ii) Company Law and Secretarial Practice</p>	<p>It enlightens the knowledge of companies act.</p> <p>It provides knowledge of formation of company – documents required, etc. procedure.</p> <p>It provides knowledge of different meanings, needs of meeting, importance of valid meeting.</p> <p>It provides Functions of secretary and directors in business.</p>

**Subject: BBA**

**Program Outcome:** On Successful completion of degree course where BBA is one of the courses, students will gain basic knowledge about all subjects in BBA and will be able to develop new knowledge according to the requirement.

Also he/she would be able to show his/her skills in a competitive corporate world which requires complete knowledge of management, accounting, Financial Institutions, banking, insurance and corporate law.

**Program Specific Outcome: BBA program has been designed to prepare graduates for attaining the following specific outcomes:**

<b>Program outcomes</b>	<p><b>PO-1:</b> Students will recognize the need to adapt business practices to the opportunity and challenges of an evolving global environment.</p> <p><b>PO-2:</b> Students will be able to identify, evaluate, analyse, interpret and apply information to address problems and make reasoned decisions in a business context.</p> <p><b>PO-3:</b> Students will be able to communicate in a business context in a clear, concise, coherent and professional manner.</p> <p><b>PO-4:</b> students will be able to demonstrate the understanding and ability to apply professional standards, theory and research to address business problems within specific concentrations.</p> <p><b>PO-5:</b> students will be able to blend analytical, logical and managerial skills with the technical aspects to resolve real world issues and become employable in various private and government jobs.</p>
Program specific outcome	<p><b>PSO-1: Critical thinking skills:</b> Students are able to define, analyse and devise solutions for structured and unstructured business problems and issues using cohesive</p>



	<p>and logical reasoning pattern for evaluating information, materials and data.</p> <p><b>PSO-2: Communication skills:</b> Students are able to conceptualize a complex issue into a coherent written statement and oral presentation.</p> <p><b>PSO-3: Technology skills:</b> Students are competent in the uses of technology in modern organizational operations.</p> <p><b>PSO-4: Entrepreneurship and innovations:</b> students can demonstrate the fundamentals of creating and managing innovation, new business development and high growth potential entities.</p> <p><b>PSO-5: Business knowledge:</b> Students can demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business.</p>
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Course	Outcome
<b>BBA-I (Semester – I)</b>	
<b>English</b>	<p>To develop language skills for business management.</p> <p>To improve reading, writing and speaking skills, as well as vocabulary development for various business situations.</p> <p>Effective communication is an essential part of life. This course helps to develop verbal and non-verbal communication ability.</p> <p>The course also helps to develop the skill of drafting various business correspondences like letters, memos, emails etc.</p>
<b>Fundamentals of Business management</b>	<p>It provides knowledge of taking business decisions.</p> <p>Its P.K of appropriate leadership skills and styles to maximize employees' productivity</p> <p>Its P.K. of factors that affect ethical</p>

	<p>behaviour</p> <p>It explains how business develop strategy</p>
<b>Computer applications for business</b>	<p>Computer application courses relating to business teach students to use standard software programs found in the workplace. Students learn to input, review, design, and present information in a productive and efficient manner.</p> <p>More effectively use computers as tools for business, entertainment, or study.</p> <p>Have a more complete and detailed understanding of the role computers play in your daily life.</p> <p>Better use the Internet as a research and information-sharing resource.</p> <p>Describe and explain basic computer components and functions, operating systems, database management systems and traditional applications, networks, and the Internet.</p> <p>Describe the types of careers available in information technology.</p>
<b>Cost Accounting</b>	<p>Analyse implications of cost in managerial decisions.</p> <p>Understand process costing</p> <p>Understand standard costing and analysis of deviation.</p> <p>Understand Break Even concept.</p> <p>Understand various methods and techniques cost management.</p>
<b>BBA-I (Semester – II)</b>	
<b>English</b>	<p>To develop language skills for business management.</p> <p>To improve reading, writing and speaking skills, as well as vocabulary development for various business situations.</p> <p>Effective communication is an essential part of life. This course helps to develop verbal and non-verbal communication ability.</p> <p>The course also helps to develop the skill of drafting various business correspondences like letters, memos,</p>

	emails etc.
<b>Principles Of Marketing Management</b>	<p>Understand scope, importance, concepts, applications and essentials of marketing.</p> <p>Understand segmentation, Targeting and Positioning and Repositioning.</p> <p>Having understanding of product, product mix, new product development, levels of product, types of product, branding and packaging, different types of distribution.</p> <p>Know how effect of price and promotion on consumer. Understand Marketing Information System.</p>
<b>Financial and Management Accounting</b>	<p>It provides basic knowledge of functions of financial accounting</p> <p>It helps in application of rational financial decision making</p> <p>It provides knowledge, how to record the business transactions to identify variables</p> <p>It provides basic knowledge of business budget and budgetary control</p>
<b>Microeconomics Fundamentals</b>	<p>Understand background of managerial economics.</p> <p>Develop an understanding of role and function of managers.</p> <p>Provide a detailed view of various roles played by cost and revenue in business.</p> <p>Understand the production function</p> <p>Understand the market structure</p>
<b>BBA-II (Semester –III)</b>	
<b>Principles of Financial Management</b>	<p>Maximization of value of the firm.</p> <p>Maximization of the wealth of the firm</p> <p>Determination of patterns of determining capital structure.</p> <p>Assessment of working capital needs of the firm.</p> <p>Focus on various decision of the firm like investment, financing and dividend</p> <p>General</p>
<b>Basic Statistical Techniques</b>	<p>Students will be able to do arithmetic mean, median, harmonic mean.</p> <p>Calculation of correlation, regression analysis index number and time series analysis.</p>

	<p>Understands statistical testing and their applications.</p> <p>Students understands the application of probability theory.</p>
<b>Evolution of Business &amp; Commercial Geography</b>	<p>Understand evolution of Business, Economy and Industry, Industrial Evolution and Rise of European Business.</p> <p>Develop understanding about World War I &amp; II , The Great Depression, Coldwar, OPEC Crisis, Gulf war and Dawn of IT Era.</p> <p>Know how commercial geography relates with commerce, Economic activities of man, Physical and Cultural Environment, Determinism and Possibilism theory.</p> <p>Understand Industries and Economic Development, major industries in India and World.</p>
<b>Environment Management</b>	<p>It makes the student more concerned about environment</p> <p>It creates awareness in student how to minimize environmental pollution.</p> <p>It brings awareness social issues in environment</p> <p>Brings awareness about environmental ethics</p> <p>It provides knowledge how to achieve balance between the cost of society and environment</p>
<b>BBA-II (Semester –IV)</b>	
<b>Principles Of Human Resource Management</b>	<p>To develop the understanding of the concept of human resource management and its relevance in organization.</p> <p>To understand the theories from the field of HRM.</p> <p>To integrate the knowledge of HR concepts to take correct business decisions</p> <p>To understand the financial impact of HRM activities on organization.</p> <p>Understands the implications on diversity and globalization on HRM</p>

	process
<b>Money Banking And Finance</b>	<p>Understand about the origin of money and its development</p> <p>Have awareness about the present structure of banking system in India.</p> <p>Have an exposure of the techniques &amp; application of contemporary banking.</p> <p>Explain the structure of financial markets.</p> <p>□ Identify roles of financial intermediaries within financial markets.</p> <p>Describe the various types of risk and its management</p>
<b>Introduction To Sociology And Psychology</b>	<p>Develop understanding about Sociology, its characteristics, Development of Modern Industrial Society, postmodern society and culture.</p> <p>To know social structure and social change</p> <p>Understand meaning, definition, scope, application, methods, perspective of Psychology.</p> <p>Understand Nervous system and social psychology, socialization and perceiving others</p>
<b>Business Legislation</b>	<p>It improves the knowledge of Companies Act</p> <p>It explains the concepts in business laws with respects of administration</p> <p>It provides knowledge of different meetings, need importance of valid meetings</p> <p>It improves the knowledge of contract act. How to enter into any contract safely.</p>
<b>BBA-III(Semester –V)</b>	
<b>Principles of Operation management</b>	<p>To understand the importance of production and operation management in uncertain business environment.</p> <p>To understand the resource utilization of an organization.</p> <p>To understand the applicability of operation in different Areas of business.</p> <p>To understand the challenges faced in manufacturing, production and service.</p>

	Develop the skills to operate competitively in the current business scenario
<b>Entrepreneurship Development</b>	Become aware of entrepreneurship opportunities available in the society for the entrepreneur. Acquaint them with the challenges faced by the entrepreneur. Develop the motivation to enhance entrepreneurial competency
<b>International Business Environment</b>	Identify and evaluate the complexities of international business and its impact on globalization. Analyse the relationship between international business and the political, economic, legal and social policies of countries, regions and international institutions. Analyse current conditions in developing emerging markets, and evaluate present and future opportunities and risks for international business activities. Develop a framework to support successful decision making in all relevant functions and activities of any international business or international operation,
<b>Research methodology</b>	Understand and use the concept of research methodology. Judge the reliability and validity of experiments and perform exploratory data analysis. Use parametric and non-parametric hypothesis tests (and interpreting their results). Use computer-intensive methods for data analysis
<b>BBA-III (Semester –VI)</b>	
<b>Paper I –Fundamentals of Human Resource Management</b>	It provides information about how to manage Human resources. Explain the importance of HRM. Describe the concept of performance appraisal. Describe the various methods of

	<p>performance appraisal.</p> <p>Is clear about the concept and different methods of Job Evaluation.</p> <p>Its explain the compensation management.</p> <p>Its clear what is the legal aspects which are related with employees for example Provident fund.</p> <p>Its give information about Industrial Relation Act, wages Act, ESI Act.</p>
<b>Fundamentals Of Business Finance</b>	<p>Maximization of value of the firm.</p> <p>Determination of patterns of determining capital structure.</p> <p>Various capital budgeting decision.</p> <p>Assessment of working capital needs of the firm.</p> <p>Focus on various decision of the firm like investment, financing and dividend general.</p>
<b>Fundamentals of Marketing Management</b>	<p>Learn about Integrated Communication Mix (IMC)</p> <p>Understand Branding and Digital Marketing</p> <p>Develop understanding about Sales organization and relationship with other elements.</p> <p>Learn about channels of distribution</p> <p>Understand nature, scope, characteristic, vision, strategies, branding and positioning of Service Marketing.</p>
<b>Paper II- Advanced Human Resource Management</b>	<p>Students get the knowledge of the process and principles of performance management and appraisals.</p> <p>Student acquires the knowledge of compensation and the context of compensation practices.</p> <p>Understands establishing and maintaining a sound relationship between the worker and employer.</p> <p>Understands the various intervention strategies in organizational development.</p>
<b>Advanced Financial Management</b>	<p>Learn about the different types of banking operations.</p> <p>Understand about the role and</p>

	<p>importance banking in financial system.</p> <p>Learn about the basic concepts of Risk and Insurance.</p> <p>Know about the fundamental principles of Insurance and about the various classifications of Insurance.</p> <p>Know about the nature of investments in corporate securities.</p> <p>Develop the relationship between interests and prices of bonds.</p> <p>Use duration and convexity in the analysis of the price sensitivity of bonds to interest rate changes.</p> <p>Understand the nature of share price movements.</p> <p>Interpret the evidence relating to market efficiency.</p>
<b>Advanced Marketing Management</b>	<p>Learn about Sales Management</p> <p>Develop understanding about Distribution</p> <p>Network Management</p> <p>Understand Service quality and measures of improvement.</p> <p>Know about Customers Retention and Relationship marketing.</p>
<b>Project</b>	<p>Develop a thorough understanding of the chosen subject area.</p> <p>Demonstrate the ability to collate and critically assess/interpret data.</p> <p>Develop an ability to effectively communicate knowledge in a scientific manner.</p> <p>Provide recommendations based on research findings.</p>

**Subject: M.Sc Microbiology Program Outcome:**

The objectives of postgraduate training are orienting the students for research towards higher degrees, or in the field of development of industrial processes.
The expectations and opportunities available for Masters Students are responsible positions in technical production, planning and policy making, both in research and industry.
Postgraduate curriculum in all its different aspects such as design,



implementation and evaluation needs necessarily to be research oriented.
Imparting in-depth fundamental knowledge of the diverse areas of the discipline, combined with acquaintance with front-line research trends and developments in related field is the aim of postgraduate curricula.
The curriculum should be designed in such a way, that after their postgraduate studies, students should be able to work directly in the applied field (industry or research institute) without any additional special training.
At the time of completion of the programme the student will have developed extensive knowledge in various areas of Microbiology.
The student will be instilled with values of professional ethics and be made ready to contribute to society as responsible individuals.
Microbial Biochemistry, Physiology and Molecular Biology will give basic understanding of the microbiology. Individual sections like bacteriology, virology, mycology give will give knowledge detailed information on economic importance of microbiology.
Advanced sections of microbiology like Immunology, Microbial genetics, food microbiology, medical microbiology, Environmental microbiology, industrial microbiology and bioinformatics will give broad information on microbiological applications and opportunities in the field of microbiology. Identify research and solve microbiology related problems related to the different types of microbial derived diseases.
Ability to communicate and function effectively in multi-disciplinary team related to the microbiology.

### Program Specific Outcome:

Research at national, international level.
Planning and policy making for biotechnology
Teaching at undergraduate / postgraduate level courses in Microbiology.
At the end of the two year programme the student will understand and be able to explain different branches of Microbiology such as Bacteriology and Virology
The student will be able to explain about various applications of Microbiology such as Environmental Microbiology, Industrial Microbiology, Food Microbiology, and Microbial Pathogenicity.
The student will be equipped to take up a suitable position in academia or industry, and to pursue a career in research
The student will be able to design and execute research project incorporating techniques related to Basic Microbiology,

Immunology, Molecular Biology, Recombinant DNA Technology, and Microbial Genetics.

### Course Learning Outcome M.Sc Microbiology

#### M. Sc. Microbiology Semester I

PAPER-I MICROBIAL METABOLISM (MM)	<p>CO1: Will be acquainted with methods of measuring microbial growth, calculating growth kinetic parameters with understanding of steady state and continuous growth.</p> <p>CO2: Will have gained an in-depth knowledge of primary, secondary and group translocation transport systems existing in bacteria, simultaneously learning membrane transport proteins and kinetics of solute transport.</p> <p>CO3: Will have learnt central metabolic pathways for carbon metabolism in bacteria enlisting differences with eukaryotic systems and their regulation in diverse physiological conditions. This allows students to apply the acquired knowledge in engineering metabolic pathways for developing industrially useful strains.</p> <p>CO4: Will have gathered understanding of inorganic and organic nitrogen assimilation and its regulation. Also knows role of glutathione in cellular redox regulation and biochemistry of glutamate overproducing strains.</p> <p>CO5: Will understand details of lipid and nucleotide metabolism in E. coli and its regulation along with biochemical basis of lipid accumulation in yeasts.</p> <p>CO7: Is conversant with intracellular signaling in bacteria in response to various nutritional and physiological stresses.</p>
PAPER-II ENZYMOLOGY AND TECHNIQUES (ET)	<p>CO1: Will understand the structure, classification and function of enzymes</p> <p>CO2: Will have learnt basic concepts of enzyme biochemistry, its kinetics and regulation.</p> <p>CO3: Application and significance of enzymes in industrial and medical field.</p>
PAPER-III ADVANCE TECHNIQUES IN MICROBIOLOGY (ATM)	<p>CO1: Be able to carry out the analysis of the data from CD and Fluorescence experiments to monitor the stability of the protein under different environmental conditions</p> <p>CO2: Be familiar with the output of fluorescence and confocal microscopy</p> <p>CO3: Be able to evaluate the quality and highlights of the structure reported/deposited in journals/structural databases.</p> <p>CO4: Be able to design a multi-step purification protocol for a target protein</p>

	<p>CO5: Be able to understand and correctly interpret the migration of protein molecule on PAGE under native and SDS conditions</p> <p>CO6: Follow the safety precautions while using radioactive methods.</p> <p>CO7: To introduce the student to the variety of biophysical and biochemical techniques currently available to probe the structure and function of the biological macromolecules, make them aware of the physical principles behind each technique and the instrumentation.</p>
PAPER-IV MEMBRANE STRUCTURE AND SIGNAL TRANSDUCTION (MSST)	<p>CO1: Will be able to describe the morphological features, cell arrangement and structural components of bacterial cell in detail; will be able to differentiate between Gram-positive and Gram-negative bacteria.</p> <p>CO2: Will have gained knowledge about cell wall structure and extracellular appendages in different bacteria and is acquainted with current methodologies.</p> <p>CO3: Will have gathered detailed information regarding bacterial cell division and endospore formation.</p> <p>CO4: Can enlist the characteristics of archaea that differentiate it from eubacteria, and will have learnt key features of some model archaeal organisms.</p> <p>CO5: Salient features of the genome organization of selected extremophiles that allow them to survive in harsh environments.</p> <p>CO6: Understands different secretion systems existing in bacteria for toxins and biomolecules.</p> <p>CO7: Intracellular signaling in bacteria in response to various nutritional and physiological stresses.</p>
PRACTICAL-I	<p>To learn the preliminary methods in biochemistry by preparing buffer and different solutions.</p> <p>To learn about the factors affecting enzymatic activity.</p> <p>Learn about several techniques of separations of sugar and amino acids.</p> <p>Determination of pH optima of an enzyme</p>
PRACTICAL-II	<p>Separation and estimation of DNA, RNA.</p> <p>Learn techniques different chromatographic techniques for separation of biomolecules.</p> <p>Demonstration of blotting technique.</p>
<b>M. Sc. Microbiology Semester II</b>	
PAPER-I MICROBIAL METHODS FOR ENVIRONMENT MANAGEMENT (MMEM)	<p>CO1: Learn bioremediation process.</p> <p>CO2: Effect of pollutants on environment.</p> <p>CO3: Role of microbes in bioremediation.</p> <p>CO4: Waste water treatment using microbes.</p> <p>CO5: Effect of pollutants on global climate change.</p>

	<p>Sustainable development.</p> <p>CO6: The use of microbial population in agriculture, mineral recovery, management of various types of pollutants and conversion processes of various types of wastes into value added products.</p>
PAPER-II MICROBIAL METABOLITES (MMT)	<p>CO1: Will have learnt central metabolic pathways for carbon metabolism in bacteria enlisting differences with eukaryotic systems and their regulation in diverse physiological conditions. CO2: Apply the acquired knowledge in engineering metabolic pathways for developing industrially useful strains.</p> <p>CO3: Will have gathered understanding of inorganic and organic nitrogen assimilation and its regulation.</p> <p>CO4: Knows role of cellular redox regulation and biochemistry of producing strains.</p> <p>CO5: Will have learnt basic concepts of enzyme biochemistry, its kinetics and regulation.</p> <p>CO6: Will understand details of lipid and nucleotide metabolism and its regulation.</p> <p>CO7: Understands the role of microbes in bioremediation of environmental pollutants like petroleum hydrocarbons, pesticides waste; also understands utility of microbes in mineral recovery.</p>
PAPER-III MEDICAL MICROBIOLOGY AND PARASITOLOGY (MMP)	<p>CO1: To understand classical and molecular determinants of disease-causing microbes.</p> <p>CO2: To describe the characteristics of newer disease-causing bacteria, viruses and parasites.</p> <p>CO3: To study and critique the various molecular tools available to work on the molecular epidemiology of disease-causing microorganisms.</p> <p>CO4: To study and evaluate mechanisms underlying resistance of bacteria to antibiotics, spread of resistance and the use of newer vaccines to control infectious diseases.</p> <p>CO5: To gather information as to how the infectious diseases may be diagnosed using newer diagnostic tools and what automated equipment are available for use in diagnostic microbiology laboratories.</p>
PAPER-IV IMMUNOLOGY AND IMMUNODIAGNOSTICS (IID)	<p>CO1: Will be able to understand the fundamental bases of immune system and immune response.</p> <p>CO2: Will be able to gather information about the structure and organization of various components of the immune system.</p> <p>CO3: Will be able to understand the genetic organization of the genes meant for expression of immune cell receptors and the bases of the generation of their diversity.</p>

	<p>CO4: Will be able to understand the operation and the mechanisms which underlie the immune response.</p> <p>CO5: Will be able to apply the knowledge gained to understand the phenomena like host defense, hypersensitivity (allergy), organ transplantation and certain immunological diseases.</p>
PRACTICAL-III	<p>CO1: Perform Different staining.</p> <p>CO2: Perform basic laboratory experiments to study microorganisms; methods to preserve bacteria in the laboratory. Isolation of pathogens from clinical samples.</p> <p>CO3: Antibiotic sensitivity testing by various methods.</p>
PRACTICAL-IV	<p>CO1: Learn various diagnostic immunologic principles and methods.</p> <p>CO2: Learn immunoelectrophoresis techniques</p> <p>CO3: learn rapid kit based immunologic techniques.</p>
<b>M. Sc. Microbiology Semester III</b>	
PAPER-I MOLECULAR BIOLOGY AND GENETICS (MBG)	<p>CO1: Students will be able to describe structure of DNA and RNA, organization of eukaryotic genome.</p> <p>CO2: Is able to compare and contrast the mechanisms of bacterial and eukaryotic DNA replication, DNA repair, transcription.</p> <p>CO3: Is able to explain concepts in DNA repair mechanisms, and recombination as a molecular biology tool.</p> <p>CO4: Is able to explain various levels of gene regulation in both prokaryotic and eukaryotic organisms.</p> <p>CO5: Is able to describe post-transcriptional processes, RNA editing, RNAi and miRNA.</p> <p>CO6: Is able to describe translation mechanism in prokaryotes and eukaryotes, regulation of translation, and post-translational processing.</p> <p>CO7: Is able to describe post-translational processes.</p> <p>Can differentiate between positive and negative regulation of gene expression, inducible and repressible systems. Can describe the regulation of the lac, trp, and ara operons.</p> <p>CO8: Is able to compare generalized versus specialized transduction. Is able to list the events in the lytic and lysogenic phases of lambda phage life cycle and their regulatory factors and events involved.</p>
PAPER-II RECOMBINANT DNA TECHNOLOGY AND NANOBIO TECHNOLOGY (RDTN)	<p>CO1: Acquires knowledge about strains development, selection of hyper producers, microbial products, metabolic engineering and various industrial relevant microbial products and their production process.</p> <p>CO2: Learns about the designing of recombinant heterologous expression systems such as E. coli, yeast, mammalian cells.</p>

	<p>CO3: Understands the concept of recombinant biomolecules, therapeutic proteins, vaccines, antibodies, bio-pesticides.</p> <p>CO4: Applications of microbes for the development of various products of agriculture, industrial and clinical application.</p> <p>CO5: The knowledge of recombinant technology, bioreactors and optimization strategies will be beneficial in development of production processes.</p>
PAPER-III MICROBIAL DIVERSITY, EVOLUTION AND ECOLOGY (MDEE)-1	<p>CO1: To learn microbial Evolution and Systematic.</p> <p>CO2: To learn Microbial Diversity of archea and bacteria.</p> <p>CO3: To learn classification of microorganisms.</p>
PAPER-IV DRUG AND DISEASE MANAGEMENT (DDM)	<p>CO1: Understands different types of regulatory approvals required for drug development.</p> <p>CO2: Learn about the production of various microbial products such as therapeutic protein and other commercially important biomolecules for agriculture and human benefits</p> <p>CO3: To learn methods for determining evolutionary relationships of microorganisms.</p>
PRACTICAL-V	<p>CO1: Learn about isolation of genomic DNA of bacteria and plasmid DNA.</p> <p>CO2: Learn about bacterial transformation and cloning</p> <p>CO3: Learn about UV induced mutagenesis.</p> <p>CO4: Learn about ligation.</p>
PRACTICAL-VI	<p>CO1: Learn about preparation of plant tissue culture media</p> <p>CO2: Learn about Isolation of single cell from intact plant organs</p> <p>CO3: Learn about Phytochemical analysis (qualitative detection) of plant.</p>
<b>M. Sc. Microbiology Semester IV</b>	
PAPER-I VIROLOGY(VIR)	<p>CO1: Is able to describe classification of viruses</p> <p>CO2: the student is able to describe tools for studying virus structure, process of virus attachment and entry, virus assembly and release.</p> <p>CO3: the student is able to describe steps in replication of genome of RNA viruses, retroviruses, and DNA viruses.</p> <p>CO4: To describe steps in virus infection, transmission, patterns of infection, virus virulence, and host defense against virus infection.</p> <p>CO5: Describe methods of making virus vaccines and anti- viral drugs, drivers of virus evolution, and emerging viruses.</p> <p>CO6: Describe unusual infectious agents, virus mediated cellular transformation and oncogenesis.</p> <p>CO7: Describe evasion strategies used by viruses, and learn to apply their knowledge to investigate virus outbreak.</p>

PAPER-II MICROBIAL FERMENTATION TECHNOLOGY (MFT)	<p>CO1: Will have gained insight on industrially important microbes, recent developments in fermentation processes and various optimization strategies at fermenter level.</p> <p>CO2: Understands the concept of sterilization methods and principles of batch and continuous processes.</p> <p>CO3: Attains knowledge about designing of industrial strains and various media optimization strategies</p> <p>CO4: Learns about the design, types of fermenter and various critical components of bioreactors</p> <p>CO5: Is able to describe control parameters, fluid rheology and process constraints in a large scale bioreactor</p> <p>CO6: Gets introduced to various strategies of product recovery from a fermentation broth</p> <p>CO7: Acquires knowledge about various industrially relevant microbial products and their production process.</p>
PAPER-III MICROBIAL DIVERSITY, EVOLUTION AND ECOLOGY (MDEE)-2	<p>CO1: Learn about Microbial Ecosystems</p> <p>CO2: Learn about microbial ecology and genetics</p> <p>CO3: Learn about Interactions and Ecosystem Management.</p> <p>CO4: Learn about the concept of sustainable development using microbial technology.</p>
PAPER-IV VACCINES AND DELIVERY SYSTEM (VDS)	<p>CO1: Learn about the concept of Vaccines, Active and passive prophylactic measures.</p> <p>CO2: Learn about Conventional vaccines Contents and immunization.</p> <p>CO3: Learn about the concept of Designing &amp; delivery system. Drug designing and in vitro drug susceptibility testing.</p> <p>CO4: Learn Rapid tests for susceptibility testing, and antibiotic assay in body fluid.</p>
PRACTICAL-VII	<p>CO1: Learn Isolation techniques of viruses from water sources.</p> <p>CO2: Learn microbiological examination of foods.</p> <p>CO3: Learn about production and estimation of antibiotics in lab.</p> <p>CO4: Learn microbial reaction kinetics for an inhibitory substrate in fed batch system.</p> <p>CO5: Learn Immobilization techniques for cells/Enzymes.</p>

### Subject: M.Sc. Chemistry

#### Program Outcome:

1. Understand about basic fundamentals and terminologies in organic chemistry.
2. Prepare organic compounds of pharmaceutical and industrial applications.
3. Understand about various named reactions and their mechanisms.
4. Learn about different types of polymerization reactions.
5. Characterization of organic compounds using Mass, UV, IR and NMR spectroscopy.
6. Improve their laboratory skills and handling of chemicals safely.
7. Acquire theoretical and practical knowledge of reaction methods and their mechanisms.

1. Understand the various types of elimination reactions, nucleophilic substitution reactions, electrophilic substitution reactions, molecular rearrangement.
2. Students will be able to understand the mechanisms of these reactions and determine the structure of organic molecules.
3. Students will learn the importance of green chemistry and its advantages.
4. Students will demonstrate and understand the nature of free radical reactions and pericyclic reactions.
5. Students will be able to understand oxidizing and reducing reagents.
6. Students will demonstrate and understand the nature of P, S, Si, B and other organometallic compounds and transition metal inorganic synthesis.
7. Students will be able to understand isolation and synthesis of natural compounds with proper mechanism.
8. Students will be able to understand about organometallic reagents and their application in organic synthesis.
9. Students will be able to demonstrate and understand protection and deprotection of functional groups.
10. Student will be able to learn disconnection approach for the synthesis of organic compounds.
8. Student will be able to learn about how the enzyme works. Understand how to design the compound, synthesize it and purify it to determine the structure of the final compound.
9. Improve their thinking power and skills in research areas so they can apply for higher studies.
10. Develop the skill and ability to clear competitive examinations. Learn ICT based tools, modern techniques, equipments and software.

**Program Specific Outcome:**

11. Students will demonstrate and understand the nature and bonding in organic molecules.
12. Students will be able to understand special effects on synthesis and their mechanisms.
13. Student will be able to learn how to synthesize benzofused, heterocycles, diazines and azoles compounds.
14. Students will be able to understand drug activity, physiological activity to the drug therapy and pathological phenomenon.
15. Understand good laboratory and best practices.
16. Student will be able to learn about how to work on small research project.
17. Understand and apply principles of organic chemistry for understanding the scientific phenomenon in reaction mechanism.

Course Outcomes Semester I	
<b>CH-101: Paper I (Inorganic Chemistry)</b>	<b>CO-1.</b> Learn about geometry, shape and structures by using VSEPR model.
	<b>CO-2.</b> Learn about bonding and molecular structures of coordination compounds by studying Crystal Field Theory & Molecular Orbital theory.
	<b>CO-3.</b> Learn molecular orbital of metal complexes and their stereochemical aspects.
	<b>CO-4.</b> Learn and understand structure, bonding in boranes and metal-metal clusters.
	<b>CO-5.</b> Find out reaction mechanism of transition metal complexes by the point group of inorganic molecules.
	<b>CO-6.</b> Understand spectrophotometric method (Job's and Molar ratio method) to know stability of metal-ligand complex.



<b>CH-102:PaperII (OrganicChemistry)</b>	<p><b>CO-1.</b>Learn nature and bonding in organic Molecule, aromaticity and chemical reactions of various reaction intermediates.</p> <p><b>CO-2.</b>Study about conformational analysis of organic molecules and their stereochemistry.</p> <p><b>CO-3.</b>Study about types of reaction mechanisms, Thermodynamic and kinetic requirement of a reaction, Curtin Hammet principle, Hammond's postulates.</p> <p><b>CO-4.</b>Learn <math>SN^1</math>, <math>SN^2</math>, mixed <math>SN^1</math>, <math>SN^2</math> and SET and <math>SN^i</math> mechanisms, Name reactions.</p> <p><b>CO-5.</b>Learn classical and non-classical carbocation, NGP by <math>\pi</math> and <math>\sigma</math> bonds.</p> <p><b>CO-6.</b>Understand the concepts of Aromatic nucleophilic substitution and aromatic electrophilic substitution and understand their mechanism in different types of reactions.</p>
<b>CH-103:PaperIII (PhysicalChemistry)</b>	<p><b>CO-1.</b>Study the terms ionic strength, activity coefficient, Carathéodory's principle and its applications.</p> <p><b>CO-2.</b>Study recapitulation of surface tension, adsorption theories and effect of enthalpy and entropy.</p> <p><b>CO-3.</b>Understand the adsorption of gases by solid isotherms.</p> <p><b>CO-4.</b>Study about partial molar quantities and phase diagrams for two and three component systems.</p> <p><b>CO-5.</b>Learn how to determine molecular mass of macromolecules.</p> <p><b>CO-6.</b>Study about three theories of reaction rates and dynamics of unimolecular reactions.</p>
<b>CH-104:PaperIV (AnalyticalChemistry)</b>	<p><b>CO-1.</b>Understand the difference between qualitative and quantitative analysis and how to do statistical analysis and validation.</p> <p><b>CO-2.</b>Know the principle of different separation techniques such as chromatography, ion exchange chromatography, solvent extraction and their application.</p>

	<p><b>CO-3.</b> To give an extended knowledge about chromatographic techniques.</p> <p><b>CO-4.</b> Study of volumetric and gravimetric analysis for quantitative determination of mixture.</p> <p><b>CO-5.</b> Study of principle, instrumentation and application of conductometer and potentiometer.</p> <p><b>CO-6.</b> To understand the chromatographic techniques.</p> <p><b>CO-7.</b> Study the classical approach from aqueous extraction, SPE and MAE.</p>
<b>CH-105: Practical-I (Inorganic Chemistry)</b>	<p><b>CO-1.</b> Study the volumetric and gravimetric analysis of alloy mixture.</p> <p><b>CO-2.</b> Study qualitative semi-microanalysis of inorganic mixture. <b>CO-3.</b> Prepare various inorganic complexes and do quantitative analysis.</p>
<b>CH-106: Practical-II (Physical Chemistry)</b>	<p><b>CO-1.</b> Study the variation of volume contraction.</p> <p><b>CO-2.</b> Determination of activation parameters of viscous flow for a given liquid.</p> <p><b>CO-3.</b> Learn to construct the phase diagrams.</p> <p><b>CO-4.</b> Determination of thermodynamic properties.</p> <p><b>CO-5.</b> Study the kinetics of the reaction and CST.</p> <p><b>CO-6.</b> Determination of the strength of monobasic and dibasic acid by conductometrically.</p>

#### Course Outcomes Semester II

<b>CH-201: Paper V (Inorganic Chemistry)</b>	<p><b>CO-1.</b> Understand electronic spectra of transition metal complexes. <b>CO-2.</b> Study the structure of atom, Hund's rule, term symbol, calculation of microstates and selection rule.</p> <p><b>CO-3.</b> To determine the Energy terms for electronic configurations of metal complexes.</p> <p><b>CO-4.</b> Learn the magnetic properties and electronic nature of metal complexes.</p> <p><b>CO-5.</b> To understand Reaction mechanism of Transition Metal Complexes by considering substitution reaction and electron transfer.</p> <p><b>CO-6.</b> To Understand the bonding, reaction property of metal carbonyl, metal nitrosyls and organometallic complexes.</p>
<b>CH-202: Paper VI (Organic Chemistry)</b>	<p><b>CO-1.</b> Study the Addition to carbon-carbon multiple bond and carbon-heteroatom multiple bond.</p> <p><b>CO-2.</b> Learn mechanism of molecular rearrangement and orientation in pyrolytic elimination.</p> <p><b>CO-3.</b> Study the E1, E2 and E1CB mechanisms and orientation of the double bond, Saytzeff and Hoffman's rule.</p> <p><b>CO-4.</b> Understand Free radical reactions and Neighbouring group assistance</p> <p><b>CO-5.</b> Understand microwave induced reactions and Solvent free reactions and Multicomponent reactions (Biginelli, Ugi and Passerini reaction).</p>

<b>CH-203: Paper VII</b> <b>(Physical Chemistry)</b>	<b>CO-1.</b> Understand about fugacity, concepts of ion atmosphere, electrophoretic effect and Debye Hückel theory. <b>CO-2.</b> Study about seven crystal systems, HCP, CCP and crystal defects and Nonstoichiometry defects. <b>CO-3.</b> Know the quantum mechanics and application of Schrödinger wave equation to simple systems. <b>CO-4.</b> Study about statistical thermodynamics and Maxwell Boltzmann, Bose Einstein and Fermi Dirac statistics. <b>CO-5.</b> Learn about radiometric titration, Isotopic dilution analysis, NAA and GM counter.
<b>CH-204: Paper VIII</b> <b>(Analytical Chemistry)</b>	<b>CO-1.</b> Study about sampling, detection and quantification of the sample. <b>CO-2.</b> Learn stoichiometric and sub-stoichiometric reactions and calculations. <b>CO-3.</b> Understand the principle and instrumentation of sample injection system, columns for HPLC and GC, Solvent treatment system and choice of mobile phase in gas chromatography and liquid chromatography. <b>CO-4.</b> Learn about single beam and double beam spectrophotometer, role of organic ligands in spectrophotometric analysis of metal ions. <b>CO-5.</b> Understand about Job's and mole ratio method and numerical problems. <b>CO-6.</b> Study of polarographic method for analysis and amperometric titration as an analytical tool and their applications.
<b>CH-205: Practical-III</b> <b>(Organic Chemistry)</b>	<b>CO-1.</b> To perform qualitative analysis by separation, purification and identification of the binary mixture of two organic compounds <b>CO-2.</b> Prepare various organic compounds of industrial and pharmaceutical use. <b>CO-3.</b> To understand the chemical methods of analysis. <b>CO-4.</b> Learn purification, crystallization, TLC and chromatographic techniques for organic compounds.
<b>CH-206: Practical-IV</b> <b>(Analytical Chemistry)</b>	<b>CO-1.</b> Understand about classical methods and separation techniques: calibration, validation and computers. <b>CO-2.</b> Estimation of metal ion by complexometric titration <b>CO-3.</b> Estimation of solvents by bromination methods. <b>CO-4.</b> Estimation of metal using gravimetric technique. <b>CO-5.</b> Qualitative separation of metal ions by separation techniques. <b>CO-6.</b> Find out the acid strength by potentiometrically. <b>CO-7.</b> Estimate about the metal ion and study the complex formation by colorimetry.

<b>CH-301:PaperIX</b> <b>(Special I-</b> <b>OrganicChemistry)</b>	<b>CO-1</b> StudyofphotochemistryinorganicsynthesisanduseofNorrish type Iand&Norrish typeIIreactions. <b>CO-2.</b> LearnphotochemistryofAromaticcompoundswithreferencetoisomerizationadditionandapplicationsofphotochemicalmethods in
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	<p>synthesis: Isocomene, Cedrene, Hirsutene.</p> <p><b>CO-3.</b> Study of pericyclic reactions and FMO approach, Woodward-Hoffman correlation diagram method and perturbation of molecular orbital (PMO) approach of pericyclic reaction.</p> <p><b>CO-4.</b> Study of oxidizing and reducing agents.</p> <p><b>CO-5.</b> Study the preparation, properties, Synthesis, Mechanism, and importance of organoboranes.</p> <p><b>CO-6.</b> Study of chemistry of P, S and Si compounds and their applications.</p>
<b>CH-302: Paper X (Special II-Organic Chemistry)</b>	<p><b>CO-1.</b> Study the structure and synthesis of Haemoglobin and Chlorophyll.</p> <p><b>CO-2.</b> Understand the biogenesis and synthesis of PGE<sub>2</sub> and PGF<sub>2</sub>α</p> <p><b>CO-3.</b> Study of biogenesis of steroids, flavonoids and Shikimic acid Pathway.</p> <p><b>CO-4.</b> Understand and learn the structure and synthesis of alkaloid and terpenoids.</p>
<b>CH-3T3: Paper XI (Elective- Polymer Chemistry)</b>	<p><b>CO-1:</b> Study the Nomenclature, Classification and different Polymerization mechanism.</p> <p><b>CO-2:</b> Determination of molar mass by different analytical technique.</p> <p><b>CO-3:</b> To study the morphology and thermal behaviour of polymers via TGA, DTA, DTG, DSC etc.</p> <p><b>CO-4:</b> To understand and learn various commercial polymers and their applications.</p>
<b>CH-303: Paper XII (Core-Spectroscopy-1)</b>	<p><b>CO-1.</b> Identifying the group based on symmetry elements and matrix representation of groups.</p> <p><b>CO-2.</b> Study of mass spectrometry: Theory, instrumentation, various methods of ionization, FAB, MALDI, McLafferty rearrangement and mass spectral arrangements of organic compounds. Structure determination.</p> <p><b>CO-3.</b> Learn Mössbauer spectroscopy, Microwave spectroscopy, Raman spectroscopy, ESR spectroscopy, IR spectroscopy and its applications</p>
<b>CH-304: Practical V – (Organic Chemistry Special)</b>	<p><b>CO-1.</b> Estimation of Vitamin “C” by Iodometry.</p> <p><b>CO-2.</b> Estimation of Phenol by KBrO<sub>3</sub>-KBr.</p> <p><b>CO-3.</b> Isolation of piperine from black pepper.</p> <p><b>CO-4.</b> Isolation of casein from milk (the students are required to try some typical colour reactions of proteins)</p> <p><b>CO-5.</b> Isolation of lactose from milk (purity of sugar should be checked by TLC and PC and R<sub>f</sub> value reported.)</p> <p><b>CO-6.</b> Separation of the components of a mixture of three organic compounds by qualitative analysis.</p>
<b>CH-3P3: Paper VI (Elective- Polymer Chemistry Practical)</b>	<p><b>CO-1:</b> Synthesis of UF Resin, PF Resin, Glyptal Resin, Thiokol Rubber.</p> <p><b>CO-2 :</b> Characterization of polymers via Viscosity and end group analysis.</p> <p><b>CO-3:</b> To prepare ligand for co-ordination polymers.</p> <p><b>CO-4:</b> To prepare terpolymer and learn its applications</p>

<b>Course Outcomes Semester IV</b>	
<b>CH-401: Paper XIII (Special I-Organic Chemistry)</b>	<p><b>CO-1.</b> Study carbanions inorganic chemistry including various named reactions.</p> <p><b>CO-2.</b> Study about synthesis and applications of organo Li and organo Mg reagents.</p> <p><b>CO-3.</b> Learn the details of organo zinc reagents and organo copper reagents.</p> <p><b>CO-4.</b> Study transition metals in organic synthesis such as organopalladium and applications of <math>\text{Co}_2(\text{CO})_8</math>, <math>\text{Ni}(\text{CO})_4</math>, <math>\text{Fe}(\text{CO})_5</math> in organic synthesis.</p> <p><b>CO-5.</b> Study advanced stereochemistry.</p> <p><b>CO-6.</b> Learn protection and deprotection of functional groups.</p>
	<b>CO-7.</b> Study disconnection approach including One Group C-C disconnections and two Group C-C disconnections.
<b>CH-402: Paper XIV (Special II-Organic Chemistry)</b>	<p><b>CO-1.</b> Study and understand nomenclature, classification, synthesis of enzymes and Coenzymes.</p> <p><b>CO-2.</b> Learn synthesis of condensed five and Six membered heterocyclic compounds and their reactivity, aromatic character and importance of heterocyclic compounds.</p> <p><b>CO-3.</b> Learn the structure determination and synthesis of Vitamin A, E and H.</p> <p><b>CO-4.</b> Understand synthesis and application of Ciprofloxacin, Terfenadine, Methyl dopa and Salbutamol.</p> <p><b>CO-5.</b> Understand basic structure, classification, synthesis and application of dyes.</p> <p><b>CO-6.</b> Understand about various pharmaceutical drugs and their applications.</p>
<b>CH-4T3: Paper XV (Elective- Polymer Chemistry)</b>	<p><b>CO-1:</b> To Study Polymerization mechanism like Ring opening, Electro-polymerization, etc.</p> <p><b>CO-2:</b> To learn various stereospecific polymers and mechanism of Zeigler Natta polymerisation.</p> <p><b>CO-3:</b> To study the characterization using IR, NMR, XRD and thermal methods.</p> <p><b>CO-4:</b> To understand the various biomedical, conducting and fire retarding polymers, their synthesis and applications.</p>
<b>CH-403: Paper XVI (Core-Spectroscopy-II)</b>	<p><b>CO-1.</b> Study UV and PES spectroscopy in detail and its application in the determination of structure of the organic compounds.</p> <p><b>CO-2.</b> Study <math>^1\text{H}</math> NMR Spectroscopy: Instrumentation, Chemical Shift, stereochemistry, Karplus equation.</p> <p><b>CO-3.</b> Understand the classification of molecules in NMR and shift reagent effect.</p> <p><b>CO-4.</b> Study of <math>^{13}\text{C}</math> NMR, <math>^{19}\text{F}</math> and <math>^{31}\text{P}</math> and structure determination of organic molecules.</p> <p><b>CO-5.</b> Study of 2D NMR spectroscopy: FT-NMR, COSY, HETCOR, NOSEY, DEPT, INEPT, APT, INADEQUATE, NOE and use of NMR in medical diagnosis.</p> <p><b>CO-6.</b> Structure determination of organic molecules by using UV, IR, NMR and mass spectrometry.</p> <p><b>CO-7.</b> Study of X-Ray diffraction, electron diffraction</p>

	and neutron diffraction techniques for crystal determination.
<b>CH-404: Practical VII (Organic Chemistry Special)</b>	<b>CO-1.</b> Quantitative analysis of nitrogen, halogen and sulphur. <b>CO-2.</b> Spectrophotometric/calorimetric estimation of streptomycin sulphate, vitamin B12, amino acids, proteins, and carbohydrates. <b>CO-3.</b> Perform organic multi-step preparations. <b>CO-4.</b> Spectral interpretation of structure elucidation of organic compounds on the basis of spectral data (UV, IR, $^1\text{H}$ and $^{13}\text{C}$ NMR and Mass).
<b>H-405: Practical VIII - Project</b>	<b>CO-1.</b> Understand about how to select topic for project. <b>CO-2.</b> Plan and execute the work. <b>CO-3.</b> Analyze the project work and write the dissertation.

## Subject: Sociology

### Sociology program outcome

P01: - To make student understand the nature of sociology and its nexus with other discipline.

P02: - To make student understand the recent concept surfacing in the studies of sociology and social scientists.

P03: - To make student know the current issues problem and measures and to address them in right perspective.

P04: - to sustain the interest of the student in terms of making them capable of fitting into the job market.

P05: - To develop a multi-disciplinary interest and broad perspective among the students to understand the intricacies of the concepts, issues and problems brought by the papers.

### Specific outcomes

PS01: - Understand the basic concepts in sociology and develop an understanding about macro and micro perspective in sociology.

PS02: - Comprehend the various features of Indian Society and culture including unity in diversity; Indian social structure and understanding rural, urban and tribal India.

PS03: - Develop an understanding of various aspects of doing social science research with focus on methodology; making research proposal, doing fieldwork and report writing.

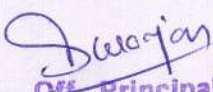
PS04: - Analyze the critical aspects of sociology of development and planning, the development theories and the Planning system for development.

PS05: - Evaluation of Development Policy.

<b>Course</b>	<b>Outcome</b>
<p>B.A. I (I Sem)- An Introduction</p> <ol style="list-style-type: none"> <li>1. Understanding Sociology-its meaning, definition and characteristics as a science.</li> <li>2. Basic concept in Sociology-group, reference group, association, community and society</li> <li>3. Socialization-meaning, processes and important of socialization.</li> <li>4. Social Structure-element of social structure.</li> </ol>	<p>CO1: To introduce the studentsthe basic concept of sociology.</p> <p>CO2: The student understands the relationship of sociology with another subject</p> <p>CO3: Students able to understand the Importance e of socialization.</p> <p>CO4: To provide basic understanding of the basic social structure of society</p>
<p>B.A I (II Sem)-Themes and perspectives</p> <ol style="list-style-type: none"> <li>1. Culture and society-characteristics of culture.</li> <li>2. Social Deviation and social control</li> <li>3. Social stratification-caste, class and gender.</li> <li>4. Concept of Gender-Distinctive categories of gender.</li> </ol>	<p>CO1: Student are able to understand about culture and society.</p> <p>CO2: Students gain the knowledge of social deviation.</p> <p>CO3: Student understands women in India society with special reference to their changing status and Role, overall situation of women theories of gender relation.</p>
<p>B. An II (III Sem)-Foundation of sociological thought.</p> <ol style="list-style-type: none"> <li>1. Emergence of sociology as a discipline.</li> <li>2. Founders of sociology I-august Comte, Herbert spencer.</li> <li>3. Founders of sociology II-Charles Horton Cooley, Emile Durkheim.</li> <li>4. Founders of sociological thought III- Karl Marx, Max Weber.</li> </ol>	<p>CO1: Student understands the socio-economic and political conditions leading to the emergence of sociology as a discipline.</p> <p>CO2: Understand the role of founder's sociological views on positivism.</p> <p>CO3: Aims at orienting the student to the basic sociological thoughts of the great masters of sociology.</p> <p>CO4: Also intends to help the students to shape their thoughts and ideas and also addressing many current sociological issues and problems.</p>
<p>B. An II (IV me)-Indian Sociological Tradition.</p> <ol style="list-style-type: none"> <li>1. Theoretical Roots of Caste in India.</li> <li>2. Social Change from Indian Perspective.</li> <li>3. Indian Society and Contemporary Change.</li> <li>4. Gender and Society in India.</li> </ol>	<p>CO1: To make the studentsunderstand ideas and thoughts reflected in the work of Indian sociologists.</p> <p>CO2: To help the students in understanding the theoretical level the sociological issues concerning Indian society.</p> <p>CO3: Student are able to understand contemporary change in Indian society.</p> <p>CO4: To understand the thoughts of gender and society in India.</p>
<p>B.A III (V Sem)-Indian Society the</p>	<p>CO1: Student are able to understand the</p>



<p>Structural Issues.</p> <ol style="list-style-type: none"> <li>1. Indian Society, Structure and Inequality.</li> <li>2. Family in Contemporary India.</li> <li>3. Tribal Issues and Problems in India.</li> <li>4. Rural Community in India.</li> </ol>	<p>education in different communities of India.</p> <p>CO2: Student get information about contemporary of India.</p> <p>CO3: Students learn the issues and problem concerning the tribes and rural communities in India.</p> <p>CO4: Student is able to understand the problem in rural communities in India.</p>
<p>B.A III (VI Sem)-Current Social Problems in India.</p> <ol style="list-style-type: none"> <li>1. Corruption</li> <li>2. Meaning Definition and ty [es of corruption.</li> <li>3. Factors inducing Corruption.</li> <li>4. Remedial majors on Corruption.</li> </ol>	<p>CO1: Students are able to face the problems of the present society.</p> <p>CO2: To make the students understand aboutCorruption.</p> <p>CO3: To known factors inducing corruption.</p> <p>CO4: Student are able to understand remedial majors on Corruption.</p>

  
**Off. Principal**  
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