

Government Thirumagal Mills College, Gudiyattam

M.A English

POST GRADUATE PROGRAM OUTCOMES:

PO1 Attained profound Expertise in Discipline

PO2 Acquired Ability to function in multidisciplinary domains

PO3 Attained ability to exercise Research Intelligence in investigations and Innovations

PO4 Learnt Ethical Principles and be committed to Professional Ethics

PO5 Incorporated Self-directed and Life-long Learning

PO6 Obtained Ability to maneuver in diverse contexts with Global Perspective

PO7 Attained Maturity to respond to one's calling

Program Specific Outcomes:

PSO1 To master a comprehensive overview of English language and literature

PSO2 To demonstrate mastery of the discipline by detailing the development and current practices of literary studies, rhetoric

PSO3 To demonstrate mastery of the discipline by characterizing, instantiating, and critiquing the dominant critical theories, methodologies, and practices in the field.

PSO4 To define, apply, and integrate theoretical terms, concepts, and perspectives important to English as a discipline in their own work and will identify and analyze them in the work of other writers.

PSO5 To train the learners to confront the challenges of attaining professional careers

PSO6 To pursue research-oriented studies further.

M.A ENGLISH LITERATURE

SEMESTER I

PAPER CODE DEN11

COURSE OUTCOME

- The student will learn about the metaphysical poets and their style of writings.
- The student will know about the love and lust towards opposite gender
- The student will be able to differentiate the various types of sonnets
- The student will enjoy the beauty of the nature and imagination
- The student will understand the romantic life of the poets
- The student will differentiate the changes of language and style

PAPER CODE DEN12

COURSE OUTCOME

- The student will come to know the prominent women writers
- The student will be able to distinguish the various thinking of American society
- The student will understand transcendentalists and naturalists
- The student will receive the seclusion temper and patriarchal society
- The student will learn the reality of working classes and middle classes living in cities

PAPER CODE DEN 13

COURSE OUTCOME

- The student will be able to know the importance of translation in various works

- The student will know the sufferings and submissive conditions of people
- The student will know the childhood sufferings and search for identity through short stories
- The student will learn the myths and ethics of Indians
- The student will know how to write the script
- The student will be inspired by various motivational writings

Paper Code DEN14

COURSE OUTCOME:

- The student will follow the proper pronunciation of the words
- The student will learn how to communicate effectively in various places
- The student will easily know the difference between linguistics and non- linguistics
- The student will link the relationship between language and literature
- The student will enjoy the dialects of various places and persons
- The student will think about the multi- lingualism

Paper Code DEN15C

COURSE OUTCOME

- As per another legend, the disciples of Gautama were cursed to become lizards.

They resided in the temple and were relieved of the curse by the divine grace of

Vishnu. There is a panel in the temple where the two lizards are depicted in the roof of the temple.

The unit designates a critical approach in literary studies and also an eclectic approach to study the complex relationship between literature and myth.

In short complex, critical and theoretical questions about myth and literature continue to be asked

SEMESTER II

Paper Code DEN21

COURSE OUTCOME

Apply discipline – specific skills to the creation of performance

Draw connections between theatrical practices and social contexts in both modern and pre-modern periods.

They will demonstrate proficiency in specific skills like: acting, directing, choreography, play-writing or dramaturgy.

They will be able to analyze, interpret and evaluate the dramatic literature and theatrical productions.

PAPER CODE DEN22

COURSE OUTCOME

- The learner knows about the history of translation and its practice.
- Interpretation of SL and TL can be done.
- Reproduction of the translation and the process and product can be understood.
- Problem and solution of the translation and the equivalence of the translation can be learned.
- Translation is done in practice.

DEN23

COURSE OUTCOME

- It reinforces the student's literary competence.
- The students will develop an independent critical persona.
- The students can understand the various types of theories
- Theories after the 20th century is learned

DEEN24B

COUSE OUTCOME

- The Learner can experience the poetry from various countries such as Canada, Australia

and New Zealand.

Can understand the Alienation among the works of the writers who belongs to different regions

The Criticism of the New Literature is also taught to the students.

SEMESTER III

Paper Code DEN31

COURSE OUTCOME

To learn the writing style from Russell's model.

To learn the value of lateral thinking.

To enjoy the humor of Orwell.

To critically evaluate the Post Colonial issues presented in Orwell's essay.

To estimate T.S. Eliot as a scholarly critic.

To learn about the greatness of the Metaphysical poets like Donne.

Paper Code DEN33

COURSE OUTCOME:

It reinforces the student's literary competence.

The students will develop an independent critical persona.

The students can understand the various types of theories

Theories after the 20th century are learned.

Paper Code DEN34

The pain of the exploited is taught via Poetry.

The Situation of Woman in the Colonies is taught.

The reaction of the Colonizers against the capture is sketched.

Abuse of Colonial people for the trade of the Capitalist is highlighted.

PAPERC CODE DEEN35HB

COURSE OUTCOME

The student will be inspired to pay more attention to nature

The student will be motivated to visualise a world devoid of fears

The student will understand the contrast between worlds of childhood and reality

The student will learn to appreciate how the poet deals with a simple idea in an extraordinary way.

The students will be inspired by the thought and words of true genius

The student will appreciate the importance of honest work and responsibility

IV SEMESTER

PAPER CODE DEN41

COURSE OUTCOME

Helps the students to works in various fields of translation studies, comparative literature and world literature.

To know the importance of Classical literature.

To give a world outlook to the learners.

Challenges the hegemony of English in world literature

Make the students to learn the political values and emphasise on global processes over national traditions.

PAPER CODE DEN42

COURSE OUTCOME

Learn as to how Shakespearean comedy is interwoven with obstacles, misunderstanding, jealousy, disguise which ultimately leads to fictional nature of the characters in the play

Learn how Shakespeare has used revenge tragedy in extensively to make the audience learn and correct themselves through Aristotle's principle of catharsis.

Learn the genre of Historical plays of Shakespeare. Shakespeare's inspiration from chronicles of Holinshed to draw plots for his Historical plays is vividly presented in such a way that it will make even commoners learn about their king's history.

Learn the struggle between reason and emotion, the clash of east and west and the very definition of honor, while all the way they are exposed to political intrigue, power struggle and struggle between the lovers.

PAPER CODE 43

COURSE OUTCOME

The learners are exposed to the poetry of Tagore

The essays of Tagore are introduced to the learners.

The students can experience the rich themes and characterization in the plays of Tagore.

The writing style of Tagore can be explored in the Short stories.

The learners can also understand the style of Tagore in his Novels.

Paper Code DEEN44B

COURSE OUTCOME

To learn as to how the second wave of feminism kick- started its course with the publication of The Second sex. Women's struggle throughout history is brought out.

The difference between feminism and womenism. Womenism as a separate entity to bring out the double suppression of black women in the hands of white and black men.

Learn the plight of women who are physically harassed to keep them under the control of men. However they are revisited in recorded history to stand against men, despite their physical indifference,

Learn the importance and the role of myth in the control of women throughout history while also learning a need to rewrite the changes in the myth via Panchali from The Mahabharatam

Learn the struggles of transgender so as to face problems from within and also from the society to find their own identity, an identity crisis marred constantly due to the bias in society towards the classification of sex.

B. A. English Language and Literature

OUTCOMES

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development.

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

Program Specific Outcomes

PSO1 Develop a better knowledge of English language.

PSO2 Apprehend different cultures and cultural sensibilities around the world.

PSO3 Familiarize various literary movements that existed in different ages and places.

PSO4 Understand various forms of literature like prose, poetry, drama and fiction.

PSO5 Identify, analyze, interpret and describe the critical ideas, values and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.

B.A ENGLISH

SEMESTER I

Paper Code CEN11

Course out Come

UNIT I

Students will be able to examine the concepts of Indian English Poetry.

Students will be able to comment on the humor in A Very Indian Poem in English.

Students will be able to understand the condition of Grandparents in Indian families.

Students will be able to grasp the in-depth ideas about the poem Home Coming.

Students will be able to know about Autobiographical Poem.

UNIT II

Students will be able to critically appreciate the poem The Child's Return.

Students will be able to appreciate the poem Of Mother, among other Things.

Students will be able to identify different images of the Mother.

Students will be able to analyze the reality of a beggar Old Woman.

Students will be able to understand the style of Indian Poetry.

UNIT III

Students will be able to scrutinize the writing style adopted by Kushwant Singh.

Students will be able to analyze the relationship of Grandmother.

Students will be able to identify the writing style of Bhabini Bhattachariya .

Students will be able to inculcate the moral ideas of Swami Vivekananda.

Students will be able to evaluate Bhabini Bhattachariya as an essayist.

UNIT IV

Students will be able to analyze the plot Nagamandala.

Students will be able to know about the writing style of GirishKarnad.

Students will be able to understand the superstitious beliefs in Indian culture .

Students will be able to know about the significance of marital relationship .

Students will become familiar with popular myth.

UNIT V

Students will be able to understand the concept of globalization.

Students will be able to absorb the importance of family.

Students will be made aware of corruption in India.

Students will be able to comprehend the ideas of VikramChandra .

Students will be able to analyze the concept of Indianness.

Paper Code CEN12

COURSE OUTCOMES

UNIT I

Students will be able to get distinct ideas on all the parts of speech.

Students will be able to understand Parts of Speech and their types.

Students will be able to use Parts of Speech with relevant Examples.

Students will be able to examine the usage of Parts of Speech in various contexts.

Students will be able to identify the different ways to adopt Parts of Speech.

UNIT I

Students will be able to know about the Types of sentences.

Students will be able to understand Statement sentence with illustrations.

Students will be able to know Interrogative sentence with illustrations.

Students will be able to identify Imperative sentence with illustrations.

Students will be able to understand Exclamatory sentence with illustrations.

UNIT III

Students will be able to know about Sentence Pattern and its types.

Students will be able to recognize the different types of Sentence Pattern.

Students will be able to identify the different ways to adopt Sentence Pattern.

Students will be able to examine the correct usage of Sentence Pattern.

Students will be able to distinguish the Sentence Pattern with the help of illustrations.

UNIT IV

Students will be able to know about Tense and its kinds.

Students will be able to understand and use Tenses in day to day life.

Students will be able to know about Subject and its Usage.

Students will be able to be familiar with Concord.

Students will be made aware of Verb and its Kind.

UNIT V

Students will be able to understand Phrases.

Students will be able to absorb noun, verb, adjectival and prepositional phrases.

Students will be made aware of Definitions of Clauses and its types.

Students will be able to comprehend Clauses with illustrations.

Students will be able to distinguish Clauses with the help of illustrations.

Paper Code CEN13

COURSE OUTCOMES

UNIT I

Students will be able to understand how poetry requires a different writing style.

Students will be able to get, in-depth ideas of Poetry.

Students will be able to understand the traits of Lyric, Ode, and Sonnet.

Students will be able to examine Elegy and Epic.

Students will be able to scrutinize different kinds of Poetry.

UNIT II

Students will be able to understand prose as writing with distinct style.

Students will be able to know the characteristics of Short Story.

Students will be able to understand the ideas behind Essay.

Students will be able to understand the basic traits of Biography.

Students will be able to know about Autobiography in detail.

UNIT III

Students will be able to understand Drama as a genre with distinct style.

Students will be able to distinguish Tragedy and Comedy as a separate genre.

Students will be able to understand Tragi - Comedy.

Students will be able to examine characteristics of One Act Play.

Students will be able to absorb the principles of the Absurd Drama .

UNIT IV

Students will be able to understand novel's characteristics.

Students will be able to know about Historical Novel.

Students will be able to be familiar with Picaresque Novel.

Students will be made aware of The Stream of Consciousness Novel.

Students will be able to absorb the characteristics of various types of Novels

UNIT V

Students will be able to understand few important Literary Terms.

Students will be able to absorb the basic ideas of Plot, Melodrama and Irony.

Students will be made aware of Euphemism, Expressionism and Satire.

Students will be able to comprehend Allegory, Comic Relief and Dramatic Monologue.

Students will be able to identify the usages of Literary Terms.

SUBJECT CODE :CEN 21

B.A ENGLISH SECOND SEMESTER

Course Out Come

Unit I

The students will be able to

Identify the characteristic features of metaphysical poetry

Critically appreciate the poem, “Hymn to God, the Father”

Analyse the theme of “Song for St. Cecilia’s Day”

Identify the neoclassical elements found in the prescribed poems

Understand Dryden as a neoclassical poet

Unit II

The students will be able to

Understand Milton’s greatness as a poet

Understand how one has to wait for the right time to accomplish great works

Appreciate the grand style of Milton

Understand Pope as the representative poet of neoclassicism

Appreciate the value of simple life

Unit III

The students will be able to

Understand the three fruits of friendship

Know the purpose of studying

Understand the advantages of studying

Understand the greatness of books

Appreciate the style of Bacon

Unit IV

The students will be able to

Understand the social life of 17th century England

Critically appreciate the play, "The Shoemaker's Holiday"

Analyse the characters of the Play

Know how war leads to disability of persons

Understand the class system of English People

Unit V

The students will be able to

Understand Pilgrims Progress as an Allegory

Appreciate the theme of salvation.

Understand that the road to Heaven is not easy, the cost is great,

Know that the true Christian must be willing to pay the cost no matter what.

Know that man is full of sin, but this does not keep him from attaining glory.

Paper Code CEN22

Course Out Come

After studying

Unit-1,

the student will be able to grasp the lyrical richness embedded in American Poetry

the student will be able to understand the modern American writer like Merwin and his thoughts related to Environment

the student will come to know the great American Poets like Frost, Lowell and Sandburg and their works.

the student will be able to develop a taste of American poetry and thus he or she further reads and understands

the student will search in web, related poems written by these great poets to develop further knowledge on poetry

Unit-2,

the student will be able to admire and try to emulate the literary expertise of Walt Whitman, Emily Dickinson, Edgar Allan Poe and Wallace Stevens

the student will come to know the literary terms available in the American poetry

the student will get inspiration from Walt Whitman and his knowledge about India

the student will read further about these great poets

the student will develop a taste to study the lifestyle of American people

Unit-3,

the student will be able to judge the supremacy of American output

the student will come to know the great prose writers of American Literature Emerson, Thoreau and Martin Luther King

the student will understand the real thoughts of the American writers

the student will get inspiration through these works and it will kindle him or her to read more

the student will understand the philosophy of these writers.

Unit-4,

the student will be able to judge the supremacy of American drama

the student will come to know the great dramatist of American Literature Arthur Miller

the student will understand the real thoughts of the American dramatists in general

the student will get inspiration through this drama and it will kindle him or her to read more dramas of American Literature

the student will understand the usage of language in the drama

Unit-5,

the student will be able to judge the supremacy of American fiction

the student will come to know the great fiction writers of American Literature Ernest Hemingway

the student will understand the real thoughts of the American fictions and Sea life

the student will get inspiration through this fiction and it will kindle him or her to read more fictions of American Literature

the student will understand the real concept of lifestyle of Americans.

Paper Code CAEN23

Out Come:

This Comprehensive Paper enables the students to understand the subject thoroughly and provides them the scope of their study. Helps them in the long run should go for their higher studies and appear for competitive examinations such as (NET, SET, TET Etc)

Semester 3:

Paper code CEN31 :

Course Outcome:

Unit I

The students will be able to understand :

William Wordsworth as a Nature Poet

Autobiographical element found in Tintern Abbey

P.B. Shelly as a Revolutionary Romantic poet

Literary devices used in Ode to the West Wind

The theme of regeneration in Ode to the West Wind

Unit II

The students will be able to

Characteristic features of Romantic age

Appreciate Keats as a poet who is Known for his Odes

Understand “beauty is Truth, truth beauty” with reference to Ode on a Grecian Urn

Understand Samuel Taylor Coleridge as a romantic poet

Analyze the supernatural element in Kublakhan

Unit III

The students will be able to

Know the essayists of the Romantic Age

Appreciate Charles Lamb as an essayist

Analyze the humour in “A Dissertation Upon Roast Pig

Understand Oliver Goldsmith as an essayist

Critically analyze the essay, “A City Night Piece”

Unit IV

The students will be able to understand

Rivals as an anti sentimental comedy

Why Lydia wants to marry a poor man

The idea of malapropism

The concept of duel

How does Falkland’s plan backfire

Unit V

The students will be able to

Analyze Robinson Crusoe as a travelogue

Know whether Robinson Crusoe changed at the end of the novel

Critically analyze Jan Eyre as a gothic novel

Undersand how Jane Eyre fits into romantic Literature

Analyze the character of Jane Eyre

Paper code CAEN 33

Course out Come:

Students are able to have a vast knowledge in History of English Literature down the ages

Students are exposed to the major movements, changes and impacts in history.

The students gain confidence in their course of study.

It helps them in the long run to take up the competitive examination.

It enables them to pass in the entrance tests when they go for higher studies.

Paper code CSEN 34:

Course Out Come

Student is able to prepare her\him self

Unit I

The student will be able to know types of GD

The student will be able to know about GD

The student will be able to know how to prepare for GD

The student will be able to understand leadership and problem solving skills

The student will be able to develop leadership and problem solving skills

Unit II

The student will be able to discuss the purpose of interviews

What are the technique the student will be able to follow at the time of interviews

The student will be able know their strengths and weakness

The students will be able to focus purpose of interviews

The student will be able to concentrate do and don'ts while attending the interviews

Unit III

1.The students will be able to Know how to lay out the details in a CV

2.The student will be able to learn how to organize information in an cover letter

3.The student will be able come to know how to write a covering letter

4.The student will be able to know FAOS about their family members

5.The student will be able to learn how to answer question about yourself and your family

Unit IV

- 1.The students will be able to grasp the workplace etiquette.
- 2.The student will come to know values and Ethics
- 3.The student will be able to discuss culture issues.
- 4.The students will be able to know equal rights of boys and girls
- 5.The students will come to know empowerment of women

Unit – V

- 1.The students will be able to know ones likes and dislikes
- 2.The student will be able to understand their attitude.
- 3.They will be become familiar with things they need to talk about to answer a question.
- 4.They will be able to answer the question about the suitability of the job.

Semester 4

Paper code :CEN 41

Course outcome:

Unit I

The students will be able to understand
the theme of Ulysses

Ulysses as a dramatic monologue

Character of Ulyses

What does the scholar gypsy symbolize

The “strange disease of modern life”

Unit II

The students will be able to understand

- 1.My Last Duchess as a dramatic monologue

2. critical appreciation of the poem My Last Duchess
3. Describe the social custom according to “My Last Duchess “ – Ferrara by Robert Browning
4. Theme of Darkling Thrush
5. Mood of the poem Darkling Thrush

Unit III

The students will be able to

Know the novelist R.L. Stevenson as a poet

Critically appreciate the poem On Falling in Love.

Analyze the poem On Liberty

Comprehend the style of John Stuart Mill’s Poetry

Understand the social life of 19th Century.

Unit IV

The students will be able to

Identify targets of Wilde's satire and analyze the treatment of these targets.

Discuss the idea of art for art's sake.

Identify the pun central to the play and analyze its meaning

Who is the blocking figure in The Importance of Being Earnest?

What precisely is a Bunburyist?

Unit V

The students will be able to:

Identify who Charles Dickens was.

Summarize the characters and events of The Pickwick Papers.

understand that true happiness is achieved only through reciprocated love

See the tremendous impact that one person's life can have on the many people with whom he comes in contact.

Consider whether man or fate controls one's destiny.

Paper code:42

Course Out come:

Unit I

The students will be able to know the

Characteristic features of English language like heterogeneousness, effect of loss of inflexions, simplicity of inflexions, gender system of English and development of periphrases

Indo European family of languages

Grimm's law

Verner's law

English as part of Indo European family of languages

Unit II

The students will be able to understand

various methods of development of vocabulary

words coined by imitation, abbreviation, initials, back formation

words coined by suffixes and prefixes, syncope, telescoping, metaanalysis, etc.

various methods of change of meaning

change of meaning listed by F.T. Wood,,

Unit III

The students will be able to understand

the impact of influences of foreign languages

the influence of Latin language

Greek influence

French influence

Unit IV

The students will be able to understand

The history of English spelling

Reason for discrepancy between spelling and pronunciation

Development of dictionaries

Growth of Standard English

Received pronunciation

Unit V

The students will be able to understand

The reason for the development of American English

New coinages

Differences between American English and British English'

Evolution of English as world Language

Impact of English as universal language

Paper code:CAEN 43

Course out Come

Students are able to have a vast knowledge in History of English Literature down the ages

Students are exposed to the major movements, changes and impacts in history.

The students gain confidence in their course of study.

It helps them in the long run to take up the competitive examination.

It enables them to pass in the entrance tests when they go for higher studies.

Paper code:CSEN 44

Course Out Comes :

Student is able to prepare her\him self

Unit - I

To start with work

Learns the methodical approach

Able to focus on the task

Gains control and get involved in the specific work

Understands the need of the reading

Gain control one writing and get involved in the specific work

Unit II

Paper codeLearn to organize ideas and write

Known how to draft the message

Write the revised message

Known to edit the draft after proof-reading

Learn to overcome the writes block.

Unit III

Construct subject line the key lines of the message in a captive way.

Include the punctuation marks in the right place

Learn to use the tens in the items in the menu bar like headings endings bullets and graphic devices

Makes the message accessible

Learn to incorporate the special effect

Unit IV

Read their writing and make it clear

Analyze the structure and word choice

Able to give helpful information

Known to write quick clean and direct

Learn to write an easy to read style.

Unit V

Learn to deliver un- welcome news

Responses to letter of complaints

Shape a persuasive message

Draft sales letters

Interact with international correspondence

Semester : 5

Paper code:CEN 51

URSE OUTCOMES

UNIT I

Students will be able to understand the coming of a new ominous reality.

Students will be able to understand the themes of the poems of W.B.Yeats with reference to “The Second Coming”.

Students will be able to know the background of Irish literature with reference to Seamus Heaney.

Students will be able to understand the violence and murders in Northern Ireland with reference to “TollundMan”.

Students will be able to recognize the love of a father for his daughter through the poem “Prayer for My Daughter”.

UNIT II

Students will be able to understand the theme of the poems of G.M.Hopkins.

Students will be able to appreciate the literary genre sonnet.

Students will be able to understand man's lack of awareness and his insensitivity to nature.

Students will be able to classify the poem, "Hound of Heaven" as an ode.

Students will be able to understand the pursuit of a sinner by a loving God.

UNIT III

Students will be able to understand the role of a teacher in the society.

Students will be able to appreciate the responsibility of a teacher.

Students will be able to understand various kinds of people and their behaviour.

Students will be able to understand the idea of undeveloped heart.

Students will be able to understand the ways and means of expressing emotions through characters.

UNIT IV

Students will be able appreciate G. B. Shaw as a Dramatist

Students will be able to understand various social issues in the plays of G.B. Shaw with reference to "Pygmalion"

Students will be able to understand the teacher- student relationship

Students will be able to recognize the sense of humour in the plays of G. B. Shaw.

Students will be able to understand the distinct social class system.

UNIT V

Students will be able to know the theme of the novels of William Golding with reference to "Lord of the Flies."

Students will be able to understand the concept of bestial instinct and savagery.

Students will be able to understand the suitability of the novel for film making.

Students will be able to understand the concept of totalitarianism

Students will be able to understand how the views in the novels are relevant in the current scenerio.

Paper code :CEN 52

course Outcome

Unit I and II

Students will be able to

grasp how Lear suffers from children's ingratitude

appreciate the innocence of Cordelia

appreciate the significance of fool

understand how hamartia leads to fall

understand the role of fate

Unit III

Students will be able to understand

Characteristic features of a romantic comedy

To appreciate the world of magic

The significance of love

Appreciate the role of Puck

Appreciate the role of songs

Unit IV

Students will be able to understand

To understand the characteristics of sonnets

Shakespeare's views on love

Shakespeare's affection for the dark lady

The poetic language of Shakespeare

Unit V

Students will be able to understand

Hazlitt as a critic

Greatness of Shakespeare as playwright

Critically appreciate Midsummer Night's Dream as a comedy

Dequincy's views on Macbeth

Why the porter Scene is introduced after Duncan's death

Paper code: CEN 53

Course Outcome:

Unit I

The students will be able to understand

Aristotle's concept of tragedy

six formative elements in tragedy

Aristotle's Plot, character and tragic hero

Functions of tragedy

Unit II

The students will be able to

understand the genesis of the Preface to the Lyrical Ballads

know key concepts covered in the Preface to the Lyrical Ballads

have Wordsworth's views on themes, subject matter, function & diction of poet

Unit III

1. Why does the novel matter?
2. How does Lawrence highlight the superiority of the novel over other forms of literature?
3. What, according to Lawrence, are the supreme old novels?

4.The relation between tradition and individual talent

5.The concept of objective correlative

Unit IV

The students will be able to understand

John Crowe Ransom as a pioneer of New Criticism

The theory of new criticism

Ferdinand de Saussure as forerunner of Structuralism

The difference between new criticism and structuralism

The theory of post structuralism

Unit V Feminist Criticism - Post-Colonialism – Eco criticismCourse Outcome:

Unit I

The students will be able to understand

Aristotle's concept of tragedy

six formative element in tragedy

Aristotle's Plot, character and tragic hero

Functions tragedy

Unit II

The students will be able to

understand the genesis of the Preface to the Lyrical Ballads

know key concepts conversed in the Preface to the Lyrical Ballads

have Wordsworth's views on themes, subject matter, function & diction of poet

Unit III

1. Why does the novel matter?
2. How does Lawrence highlight the superiority of the novel over other forms of literature?
3. What, according to Lawrence, are the supreme old novels?
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Unit IV

The students will be able to understand

John Crowe Ransom as a pioneer of New Criticism

The theory of new criticism

Ferdinand de Saussure as forerunner of Structuralism

The difference between new criticism and structuralism

The theory of post-structuralism

Unit V Feminist Criticism - Post-Colonialism – Eco-criticism Course Outcome:

Unit I

The students will be able to understand

Aristotle's concept of tragedy

six formative elements in tragedy

Aristotle's Plot, character and tragic hero

Functions of tragedy

Unit II

The students will be able to

understand the genesis of the Preface to the Lyrical Ballads

know key concepts conveyed in the Preface to the Lyrical Ballads

have Wordsworth's views on themes, subject matter, function & diction of poet

Unit III

1. Why does the novel matter?
2. How Lawrence highlight the superiority of the novel over other forms of literature
3. What according to Lawrence are the supreme old novels
4. The relation between tradition and individual talent
5. The concept of objective correlative

Unit IV

The students will be able to understand

John Crowe Ransom as a pioneer of New Criticism

The theory of new criticism

Ferdinand de Saussure as forerunner of Structuralism

The difference between new criticism and structuralism

The theory of post structuralism

Unit V Feminist Criticism - Post-Colonialism – Eco criticism

Paper code: CEN 54

urse Outcomes

Unit I

The students will be able to

Analyze the theme of loss of power

Know the inevitability of younger generatins overthrowing the older ones

Analyse myth and history in Mahmoud Darwish's poem, "Why have you left the horse alone"

Understand the pain of exile

Understand the theme of racial discrimination

Unit II

The students will be able to

understand the complications that arise from trying to survive on a minimum-wage job they are immediately facing destitution.

Realize that work is not a way out of poverty, but a physically and emotionally damaging state in which the economic laws of supply and demand often simply don't apply.

Understand that low-wage workers are forced to fight an uphill, or even impossible, battle: understand that their problems stem not from individual weaknesses or laziness but from entrenched structural issues that make working your way out of poverty excruciatingly difficult.

Unit III

The students are able to understand

the tug-of-war between Western influences and native traditions and beliefs.

Through *Julius*, that even decades of colonialism are incapable of erasing the rituals and beliefs of a people

The concept of emptiness and loss.

That *Draupadi* is an ironic tale of exploitation and struggle faced by a woman for being born in a low birth

And explore the traumas undertaken by the women protagonists to resist and survive.

Unit IV

The students are able to understand

How the psychological thriller, *Dumb Dancers* incorporate the element of valour from the *Mahabharata*,

the stigma and struggle attached with mental illnesses, expressed through the traditional dance form, *kathakali*.

the mingling of Western and Yoruban elements in Death and the King's Horseman

the universality of the theme of cultural responsibility

The values of Yoruban society

Unit V

The students will be able to understand

The Environmental problems which are often underestimated by the majority of mankind in Hungry Tide.

Corruption and bureaucracy.as disease, which develops quickly, but takes a lot of time, efforts and determination to recover from it

The necessity of Responsibility.

The theme of betrayal The Kite Runner

The life of guilt moving towards redemption

Semester :6

Paper code:CEN 61

COURSE OUTCOMES

UNIT I

Students will be able to understand contemporary American poetry with reference to Don Patterson.

Students will be able to analyze why Patterson love all films that starts with rain.

Students will be able to understand the poetic techniques used by Alice Oswald.

Students will be able to know how art attempts to make a sense of the transformation after wedding.

Students will be able to understand the transformation that love creates in one's life.

UNIT II

Students will be able to understand contemporary English literature with reference to Toni Harrison.

Students will be able to recognize the universality of motherhood.

Students will be able to understand how dead people live in the memories of people alive.

Students will be able to critically analyze the theme of loneliness.

Students will be able to have a glimpse of Jewish literature with reference to Sandra Feldman.

UNIT III

Students will be able to understand contemporary English short story with reference to Doris Lessing.

Students will be able to know the historical context of the short story “Through the Tunnel”.

Students will be able to know the psychological implications of imaginary fears.

Students will be able to understand the South African literature with reference to Nadine Gordimer.

Students will be able to fix the story, “Once Upon A Time” in the frame work- bed time stories.

UNIT IV

Students will be able to understand the contemporary British drama with reference to Richard Bean.

Students will be able to know the existing racism among ethnic groups.

Students will be able to understand the theatre techniques used.

Students will be able to understand the contemporary American drama with reference to Stephen Karam.

Students will be able to know the concept of familial drama.

UNIT V

Students will be able to know the contemporary Canadian literature with reference to Yann Martel.

Students will be able to appreciate the story of an Indian teen ager with a Bengal Tiger in a life boat after a ship wreck.

Students will be able to understand the contemporary Brazilian literature with reference to Paulo Coelho.

Students will be able to comprehend the role of symbols and omens in one’s life.

Students will be able to understand the suitability of the novels for film making.

Paper code:CEN 62

COURSE OUTCOMES

UNIT I

Students will be able to

Learn the universal qualities of pure love irrespective of caste, creed and society.

Appreciate the poetic style and the indigenous metaphor

The concept of modern woman by Bharathiya

The significance of selfless love

Thiruvalluvar as universal poet

UNIT II

Students will be able to know

how to overcome anger, laziness , fear and complexes

How to develop their leadership qualities

How to develop their relationships

Indian culture and tradition

Able to face life with confidence

UNIT III

1.Students will be able to understand the myths about chastity.

2.Students will be able to understand the customs, taboos, beliefs and rituals of fishermen community.

3.Students will be able to understand the socio-cultural background of India with reference to VivekShenbag.

4.Students will be able to face problems after marriage.

5.Students will be able to raise voice against domestic violence.

UNIT IV

Students will be able to understand the importance of culture depicted in the epic Mahabaratha.

Students will be able to develop a taste for language and literature with reference to Sakuntalam.

Students will be able to understand the sign of true love.

Students will be able to learn the genre absurd play and the stream of consciousness technique.

Students will be able to explore Sartrean existentialism.

UNIT V

Students will be able to understand Assamese literature with reference to Mahim Bora.

Students will be able to visualize the concept of first love.

Students will be able to know the importance of rural life.

Students will be able to know the practices and rituals of the Tamil ancestors.

Students will be able to understand the concept of birth and death.

Paper code CEN 63

COURSE OUTCOMES

UNIT I

Students will be able to understand the background of Australian literature with reference to A.D.Hope.

Students will be able to understand the satire in the poems of A.D.Hope.

Students will be able to understand the use of symbolism through the poem “Australia”.

Students will be able to understand parental narcissism as a toxic quality through the poem “Your Children are not Your Children”.

Students will be able to know importance of children’s individual views and independent ideologies not influenced by their parents.

UNIT II

Students will be able to understand the feelings of displacement through the poem “House and Land”.

Students will be able to know the New Zealand literature.

Students will be able to feel the state of immigrants.

Students will be able to understand the racial and cultural tensions in Africa.

Students will be able to understand the concept of colonialism.

UNIT III

Students will be able to understand how race plays an important role in works of African writers.

Students will be able to know the definition of emotional journey.

Students will be able to understand the importance of journey and its benefits.

Students will be able to understand how a writer takes up the role of a teacher.

Students will be able to differentiate post-colonial and western writers.

UNIT IV

Students will be able to understand the richness of the African literature.

Students will be able to develop taste for the techniques of drama with reference to Death and the King’s Horseman.

Students will be able to understand the concepts of anti-colonialism.

Students will be able to understand the background and rituals of Yoruba community.

Students will be able to analyze that the play as a bridge between African and European culture.

UNIT V

Students will be able to witness the background status of South Africa.

Students will be able to know the international attention to South Africa’s tragic history.

Students will be able to capture the extremes of human emotions.

Students will be able to comprehend African’s hope for their freedom from hatred, poverty and fear.

Students will be able to understand that the novel is a journey from rural life to urbanization.

Paper code:CEN 64

Course Outcome:

Unit I

Student is able to use internet.

Learn to send and receive e-mails

Identify similar problems and know the ways to solve through FAO's

Incorporate the required material from the web resource bank in learning English

Exchange ideas using e-mail

Unit 2:

Learn the history of computer and its gradual development till date.

Get educated in online quiz and enrich their knowledge

Get their educational resource materials.

Involve in creating and publishing their articles.

Know to participate in online discussion and get their doubts clarified

Unit 3:

Students are able to compose news and upload

They are able to locate popular places of tourism and learn their ecological significance

Learn to create postcards and develop related knowledge

Learn to draft classified ads for practical benefits

They are able to construct puzzles and derive English language knowledge

Unit 4:

To create blogs and wikis

Know to use web page

Learn to apply multimedia in their web based activities

Learn to edit content in wikis

Know to operate playstore and download different apps

Unit 5:

Analyse content wise websites

Know to browse profession related websites

Have discussion and exchange ideas

Get educated new techniques in teaching learning

Improve their teaching learning in class rooms situation

Get familiarized with ICT

Paper code CEEN 65

Course Out Comes

Unit - I

To start with work

Learns the methodical approach

Able to focus on the task

Gains control and get involved in the specific work

Understands the need of the reading

Gain control one writing and get involved in the specific work

Unit II

Learn to organize ideas and write

Known how to draft the message

Write the revised message

Known to edit the draft after proof-reading

Learn to overcome the writes block.

Unit III

Construct subject line the key lines of the message in a captive way.

Include the punctuation marks in the right place

Learn to use the tens in the items in the menu bar like headings endings bullets and graphic devices

Makes the message accessible

Learn the incorporate the special effect

Unit IV

Read their writing and make it clear

Analyze the structure and word choice

Able to give helpful information

Known to write quick clean and direct

Learn to write an easy to read style.

Unit V

Learn to deliver un- welcome news

Responses to letter of complaints

Shape a persuasive message

Draft sales letters

Interact with international correspondence

M.A & B.A Economics

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

PROGRAMME SPECIFIC OUTCOMES

PSO1 Remember the concept of economic principles and policies.

PSO2 Understand the essentials of empirical estimation

PSO3 Apply the required quantitative skills to economic problems for effective decision making.

PSO4 Demonstrate critical thinking skills in understanding fiscal issues and problems related to social welfare, justice and equity.

PSO5 To analyse the issues in the regional economy and its implications to the household budget.

PSO6 Skill to express vicarious concern about society and equity-centered progress and the ability to participate in democracy as a citizen of India.

SEMESTER – I : PAPER – 1 MICRO ECONOMIC ANALYSIS – I

Course Outcomes: After studying this course the students will be able to:

CO1: Gain knowledge on the Economic Behavior of Individuals, Firms and Markets.

CO2: Highlights and concerned with the various aspects of demand analysis and its related concepts . CO3: Comprehend the concepts of Consumer Surplus and its associated concepts.

CO4: Understand the Production Function and Cost Analysis and its allied concepts.

CO5: Study the Market structure and its interconnected concepts.

MACRO ECONOMIC ANALYSIS – I

CO1: Highlights the Nature, scope and significance of Macro Economics.

CO2: Gain knowledge on Classical and Keynesian theories of Employment and its related concepts.

CO3: Understand the concepts of Post – Keynesian Developments in Macro Economics

CO4: Comprehend the Investment Function and its associated concepts.

CO5: Learn and discuss the Macro Economic Policy Models and its associated concepts.

MATHEMATICS FOR ECONOMISTS

CO1: Highlights the Introductory aspects Matrix and its related concepts

CO2: Gain knowledge and concerned on Linear Programming and its associated Models.

CO3: Understand the Rules of Differentiation and its linked concepts and formulas.

CO4: Comprehend the Integration and its Economic Applications.

CO5: Elucidated that the Input- Output Analysis and its related concepts.

ECONOMIC GROWTH AND DEVELOPMENT

CO1: Highlights the Classical Views of Growth and Development in Economic Perspectives.

CO2: Gain knowledge on the Models of Economic Growth and its related concepts.

CO3: Recognized that the Models of Economic Development and its interrelated concepts

CO4: Know the Procedures on Technical Progress and Labour Savings and its correlated concepts .

CO5: Learn the Trans National Corporations (TNCs) and its related subject.

MICRO ECONOMIC ANALYSIS

CO1: Highlights the Alternative Theories of the Firm and its related subject.

CO2: Gain knowledge on Theories of Distribution in Micro Economics Perspectives.

CO3: Understand the Concepts of Welfare Economics and its related subjects.

CO4: Understand the Concepts of General and Partial Equilibrium.

CO5: Learn the Economics of Risk and Uncertainty and its correlated concepts.

AGRICULTURAL ECONOMICS

CO1: Highlights the Role of Agriculture in Economic Development.

CO2: Gain knowledge on the Agriculture Production Process and its associated concepts.

CO3: Understand the Process of Farm Management and its connected concepts.

CO4: Comprehend the Sources of Agriculture credit and its allied concepts.

CO5: Study the Agriculture Marketing and the Methods of Pricing.

SEMESTER-III Public Economics – I

CO1: Highlights the Principles of Public Finance and its related Subjects

CO2: Explain the Theories of Public and Private Goods and its linked concepts.

CO3: Understand the Private and public mechanism for allocating resources and its linked concepts. CO4: Realize the Theories of Public Expenditure and its associated concepts.

CO5: Study the Meaning and Concept of Fiscal Policy within the framework of the theme of the subject.

INTERNATIONAL ECONOMICS

CO1: Highlights the Theories of International Trade and its related concepts.

CO2: Gain knowledge on Monopolistic Competition and international trade. .

CO3: Understand the case of Free Trade and Protection, Trade Restrictions and Tariff.

CO4: Explain the International Economic Unions and its associated concepts.

CO5: Study the International Trade and Economic Growth in the framework of theme of the subject.

INDIAN ECONOMIC DEVELOPMENT AND POLICIES

CO1: Explain the Economic Development and its Measurement.

CO2: Gain knowledge on Technological transformation in agricultural sector and its related concepts.

CO3: Understand the Industrial Development and Policies relating to Public sector enterprises.

CO4: Comprehend the Effects of Unemployment and Poverty on Indian Economy.

CO5: Study the Structure and direction of India's Foreign Trade within the framework of theme of subject.

LABOUR ECONOMICS

CO1: Highlights the concepts of Labour Economics and its allied aspects.

CO2: Gain knowledge on Problems and prospects of Indian labour and its associated concepts.

CO3: Recognize the Economic Reforms and Labour Laws and its related concepts.

CO4: Comprehend the Trade union developments in India and their present position.

CO5: Study the Social security measures in India within the framework of the theme of the subject.

SEMESTER – IV PUBLIC ECONOMICS

CO1: Explain the Sources of Public Revenue and its related concepts.

CO2: Gain knowledge on Public Policy and the process of Budgeting and its related concepts.

CO3: Understand the Process of Taxation and Tax reforms in India and its linked concepts.

CO4: Comprehend the Fiscal federalism in India and its associated concepts.

CO5: Study the State finance and the sources of revenue for local government.

FINANCIAL ECONOMICS

CO1: Highlights the Introductory aspects of Financial Markets and its related concepts.

CO2: Gain knowledge on Future contracts and Markets and its interconnected concepts.

CO3: Understand the Decision under Uncertainty and Portfolio Frontiers and its linked concepts.

CO4: Comprehend the Portfolio Theories and its related concepts

MONETARY ECONOMICS

CO1: Highlights the Nature and Significance of Monetary Economics.

CO2: Gain knowledge on Keynesian Theory of Money and Prices.

CO3: Understand the Macro Economic Policies and Monetarist Controversy and its related concepts.

CO4: Comprehend the role and importance of Banking -Non-banking financial intermediaries.

CO5: Study the Money Market and Capital Market within the framework of the theme of the subject.

MANAGERIAL ECONOMICS

CO1: Highlights the Introductory aspects of Managerial Economics and its allied concepts.

CO2: Gain knowledge on Demand and Supply Analysis and its related concepts.

CO3: Understand the Pricing Methods and its linked concepts.

CO4: Comprehend the Process of Capital Budgeting and its associated concepts.

CO5: Explain the Theories of profit and its Measurement within the framework of the subject.

Microeconomics

CO1 Students gain a basic understanding of individual consumer agents and their decision making behaviour.

CO2 An introduction to basic ideas and tools of microeconomics which will be used throughout the other courses of the degree programme.

CO3 Students will be able to describe major concepts in Macroeconomics.

CO4 Students will become well-versed with ideas related to measurement of national income, theory of output and employment determination in classical and Keynesian system, fiscal and monetary policies, and role of government in the functioning of the economy as a whole.

Quantitative Methods for Economic

CO1 Students can able to understand the basic mathematical skill useful for the economic theories.

CO2 They can also acquire a good statistical background that is useful to frame economic programs and policies.

Indian Economic Development

CO1 Students can be understand key economic issues and problems facing the Indian economy

CO2 Students are expected to be able to understand the progress of national and regional economy and policies.

Economics of Capital Market

CO1 Students gain an exposure to the economics of the globalized world of financial institutions and markets.

CO2 Introduction to diversifies financial instruments and financial practices, knowledge of which is required for various career opportunities in economics.

Mathematical Economics

CO1 Enhance the ability of the students to apply mathematical skills learnt earlier to build and test models in economics and related fields.

CO2 It aims to familiarize students with different methods of optimization subject to constraints imposed due to limited resources

CO3 It gives the student an understanding of the general equilibrium through the mathematical framework of input-output analysis technique.

Financial Economics

CO1 To understand the basic concepts in financial economics along with some of the basic models which are used to benchmark valuation of assets and derivatives.

CO2 To understand the role of finance in the operation of an economy and the operation of the Indian Financial System and activities in the financial markets.

Development of Economic Thought

CO1 To understand historical evolution of economic thought and also familiarize with developments in major field of economics, Schools of thought in economics and works of some great economist from antiquity to contemporary times.

CO2 The student will be able to identify the major ideas associated with each group or thinker studied, and thereby the origins of contemporary theory are better comprehended.

Economics of Growth and Development

CO1 The student will be able to understand the theories of growth and development and the problems and challenges of the developing world.

CO2 To equip students with the ability to understand the factors affecting the long run economic growth, both from a positive and negative sense.

CO3 Student is expected to develop and understanding of the interrelations between man and nature, economic activities and limited resources, economic growth and development.

PG DEPARTMENT OF COMMERCE

PO1 Attained profound Expertise in Discipline

PO2 Acquired Ability to function in multidisciplinary domains

PO3 Attained ability to exercise Research Intelligence in investigations and Innovations

PO4 Learnt Ethical Principles and be committed to Professional Ethics

PO5 Incorporated Self-directed and Life-long Learning

PO6 Obtained Ability to maneuver in diverse contexts with Global Perspective

PO7 Attained Maturity to respond to one's calling

Program Specific Outcomes

PSO1 Ability to apply knowledge acquired in problem solving.

PSO2 Ability to working teams with enhanced communication and interpersonal skills.

PSO3 Capability of employment in functional areas like Accounting, Taxation, Banking, Insurance and Corporate Law.

PSO4 Ability to start entrepreneurial activities

PSO5 Inculcation of ethical values, teamwork, leadership and managerial skills.

PSO6 Ability to pursue professional courses such as CA/CS/ CMA/CFA etc.

ADVANCED FINANCIAL MANAGEMENT (DCM 11)

Course Outcomes:

1. After studied Unit-1, the student will be able to understand the functions of finance Management.
2. After studied Unit-2, the student will be able to know about the long term sources of funds and environment of working capital.
3. After studied Unit-3, the student will be able to gain information about capital structure and leverage
4. After studied Unit-4, the student will be able to gain knowledge about capital investment decision
5. After studied Unit-5, the student will be able to be acquainted with on the subject of working capital Management.

ACCOUNTING FOR MANAGERIAL DECISIONS (DCM 12)

Course Outcomes:

1. After studied Unit-1, the student will be able to understand the concept of Accounting for Decision making
2. After studied Unit-2, the student will be able to understand the Ratio Analysis Leverage analysis-Budgeting and budgetary control
3. After studied Unit-3, the student will be able to understand the analysis of Fund flow and cash flow statements
4. After studied Unit-4, the student will be aware of the Marginal Costing, Applications and its technique
5. After studied Unit-5, the student will be able to know Financial decisions Making

MARKETING MANAGEMENT (DCM 13)

Course Outcome

1. The students will able to know the core market and their functions.
2. The students will able to know the various kinds of Pricing and various stages in product life cycle, new product development.
3. The students will gain knowledge about the marketing channel and distribution.
4. The students will learn about the kinds of advertisement and qualities of good salesman.
5. The Student will know about the recent trend in modern marketing and digital marketing.

ADVANCED BUSINESS STATISTICS (DCM 14)

Course Outcomes

1. After Studied Unit-1, The Student Will Be Able To Know Partial And Multiple Correlations.
2. After Studied Unit-2, The Student Will Be Able To Know Probability And Binomial Distribution.
3. After Studied Unit-3, The Students will know the Issues Surrounding Sampling, Hypothesis, Z Test and T Test.

4. After Studied Unit-4, The Student Will Be Able To Have The Awareness About Application Of Chi- Square Distribution.

5. After Studied Unit-5, The Student Will Be Able To Know About Analysis Of Variance And F Test.

CORPORATE LAWS (DCM 21)

Course Outcomes

1. Define Corporate Personality, Corporate Governance, E-Governance and describe the Corporate Governance Code in Companies Act.
2. Discuss the prohibitions of certain Agreements, Abuse of Dominant Position and Regulation of Combinations under The Competition Act.
3. Enumerate the Powers and Functions of SEBI.
4. Describe the provisions related to listing of Securities, Public Offerings and discuss the prohibition of Insider Trading in various regulations of SEBI
5. Discuss the provisions related to Regulation and Management of Foreign Exchange, Related Offences, Penalties and Appeals Procedure under FEMA, 1999. 6. Elucidate the Corporate Insolvency Resolution Process and Liquidation Process under Insolvency and Bankruptcy Code, 2016.

HUMAN RESOURCE MANANGEMENT (DCM 22)

Course Outcomes:

1. After studied Unit-1, the student will be able to understand the concepts of Human Resource Management 26
2. After studied Unit-2, the student will be able to understand Recruitment and Selection Procedure
3. After studied Unit-3, the student will be able to know the various ways of solving the employee grievances procedure.
4. After studied Unit-4, the student will be able to know the evaluation the methods of Performance Appraisal
5. After studied Unit-5, the student will be able to evaluate the Different Techniques of Training.

ADVANCED CORPORATE ACCOUNTING (DCM 23)

Course Outcomes

1. After studied Unit-1, the student will be able to make them aware about the accounts of banking companies.
2. After studied Unit-2, the students will gain knowledge on preparation of accounts of insurance companies.
3. After studied Unit-3, the students will be able to know develop knowledge of holding company concept & preparation of consolidated balance sheet.
4. After studied Unit-4, the student will be able to know about Inflation accounting and CPP method
5. After studied Unit-5, the student will be able to know about Human Resource Accounting in India.

GOODS & SERVICES TAX (DCM 31)

Course Outcome

1. The students will able to know and familiarize with the fundamentals of Taxation.
2. The students will able to know GST and its history of GST and their types.
3. The students will able to know the exempted goods and Services under GST Act.
4. The students will able to know the Administration of GST and Authority.
5. The students will able to know how to avail the Appeal and Revision under GST Act.

ORGANIZATIONAL BEHAVIOUR (DCM 32)

Course Outcome

1. After studied Unit-1, the student will be able to understand the basic concept of organisational behaviour and foundations of individual behaviour
2. After studied Unit-2, the student will be able to develop an idea about different motivational theories and evaluate motivational strategies used in a variety of organizational settings.
3. After studied Unit-3, the student will be able to understand the foundation of group dynamics and the nature of stress and its management.

4. After studied Unit-4, the student will be able to evaluate the appropriateness of various leadership styles and how to deal with organisational conflict.

5. After studied Unit-5, the student will be able to understand different types of organizational structures and importance of organizational effectiveness

ADVANCED COST ACCOUNTING (DCM 33)

Course Outcomes:

1. After studied Unit-1, the student will be able to understand the basic concepts in Cost Accounting and also familiarizing with the preparation of Cost Sheets, Tenders and Quotations.

2. After studied Unit-2, the student will be able to understand Preparation of Process Costing.

3. After studied Unit-3, the student will be able to Know the Standard Costing and Variance Analysis

4. After studied Unit-4, the student will be aware of the Cost control and Cost Reduction.

5. After studied Unit-5, the student will be able to develop the knowledge about Activity based costing.

RESEARCH METHODOLOGY (DCM 34)

Course Outcomes:

1. After studied Unit-1, the student will be able to understand the basics of Research Methodology.

2. After studied Unit-2, the student will be able to know the Data Collection and Sampling

3. After studied Unit-3, the student will have understanding of Processing Data.

4. After studied Unit-4, the student will be able to have the awareness of Data Analysis through opt Statistical Tools

5. After studied Unit-5, the student will be able to know about Research Report and SSPS pacakage

DIRECT TAXES (DCM 41)

Course Outcomes:

1.The Students we able to Contrast The Different Basic Concepts In Income Tax

2. The Students we able to understand and Compute Salary Income And Income From House Property
3. The Students we able to understand and Construct The Statements For Business. Income, Professional Income And Capital Gains
4. The Students we able to understand and Compute Income From Other Sources And Total Income Of Individuals
5. The Students we able to understand and Trace Assessment Procedure and Familiarizing Tax Planning

INVESTMENT AND PORTFOLIO MANAGEMENT (DCM 42)

Course Outcomes

1. Making the students being well aware of types of financial markets
2. Testing the knowledge of students about measurement of risk and return.
3. Asses the performance of students in relation to Fundamental Analysis, Economic Analysis, Industry Analysis and Company Analysis.
4. Evaluate student's knowledge on valuation of equity shares, preference shares, debentures and bonds
5. Getting the students to familiarize Efficient Market Hypothesis

PROJECT DEVELOPMENT (DCM 43)

Course Out Comes

1. The students will be able to understand the Project and its development:
2. The students will be able to understand the Capital expenditure decisions of projects.
3. The students will be able to understand the Economic Viability of the project.
4. The students will be able to understand the Sources of Project Finance.
5. The students will be able to understand the Project schedule and control mechanism.

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate

and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

PROGRAM SPECIFIC OUTCOMES:

PSO1 Develop thorough systematic and subject skills within various discipline of commerce, business, accounting, economics, finance, auditing and marketing

PSO2 Understand the relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO3 Recognize features and roles of businessmen, entrepreneur, managers consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

PSO4 Ability to pursue professional courses like CA, CS, ICWA and the like.

PSO5 Acquire the skills like effective communication, decision making problem solving in day-to-day business affairs

PSO6 Accomplish higher education and advance research in the field of commerce and finance.

PSO7 Able to play roles of businessmen, entrepreneur, managers, consultant, that will help learners to possess knowledge and other soft skills and to react aptly when confronted with challenging situations.

FINANCIAL ACCOUNTING – I (CCM 11)

COURSE OUT COMES Units CO Statement

Unit 1 After studied unit-1, the student will be able to Understand the basic fundamentals of Double Entry System Accounting

Unit 2 After studied unit-2, the student will Prepare Final Accounts 5 be able to

Unit 3 After studied unit-3, the student will be able to Understand the depreciation accounting

Unit 4 After studied unit-4, the student will be able to Prepare the accounts in Single Entry system

Unit 5 After studied unit-5, the student will be able to Understand the importance of Tally Accounting

BUSINESS ORGANIZATION (CCM 12)

COURSE OUTCOMES UNITS CO STATEMENT

Unit 1 After studied unit-1, the student will be able to Knowledge about Business and Profession

Unit 2 After studied unit-2, the student will be able to Understand the different Forms of Business Organization.

Unit 3 After studied unit-3, the student will be able to Explore the theories of Plant Location and characteristics of Layout.

Unit 4 After studied unit-4, the student will be able to Know the concept of Business Combinations and functions of Chamber of commerce, Trade Association.

Unit 5 After studied unit-5, the student will be able to Understand the basic Concepts of MNCs

FINANCIAL ACCOUNTING – II (CCM 21)

COURSE OUTCOMES UNITS CO STATEMENT

Unit 1 After studied unit-1, the student will be able to Understand the basic fundamentals of branch accounting

Unit 2 After studied unit-2, the student will be able to Understand the basic fundamentals of Departmental accounting

Unit 3 After studied unit-3, the student will be able to Understand the Hire purchase and Installment System of accounting

Unit 4 After studied unit-4, the student will be able to Prepare the accounts partnership

Unit 5 After studied unit-5, the student will be able to Understand the basics of Tally Accounting

OFFICE MANAGEMENT (CCM 22)

COURSE OUTCOMES UNITS CO STATEMENT

Unit 1 After studied unit-1, the student will be able to To gain knowledge about nature and scope of organization.

Unit 2 After studied unit-2, the student will To gain effective knowledge about 18 be able to Administrative arrangements and physical conditions

Unit 3 After studied unit-3, the student will be able to To gain a knowledge of Office equipments and Office System

Unit 4 After studied unit-4, the student will be able to To know about Office Correspondence

Unit 5 After studied unit-5, the student will be able to To learn about Office Supervisor

CORPORATE ACCOUNTING – I (CCM 31)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to Understand the basic concepts relating to issue of shares and make accounting entries.

Unit - II After studied unit-2, the student will be able to Make accounting entries for and redemption of preference shares.

Unit - III After studied unit-3, the student will be able to Be acquainted with accounting treatment for acquisition of business.

Unit - IV After studied unit-4, the student will be able to Understand the accounting procedures related to Profits Prior to Incorporation

Unit - V After studied unit-5, the student will be able to Prepare Company Final Accounts & Company Balance Sheet.

LEGAL ASPECTS OF BUSINESS (CCM32)

Course Out Comes: Units CO Statement

Unit – I After studied unit-1, the student will be able to Know the framework of Indian Contract Act 1872.

Unit - II After studied Unit-2, the student will be able to Understand the other essential elements of Indian Contract 1872.

Unit - III After studied Unit-3, the student will be able to Aware the provisions of Special Contracts and Modes of Discharge.

Unit - IV After studied unit-4, the student will be able to Acquire Knowledge of Sale of Goods Act 1930.

Unit - V After studied unit-5, the student will be able to Consciousness on Consumer Protection Act 1986.

BUSINESS CORRESPONDENCE (CCM33)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to The student will be able to understand the basic concepts of business correspondence.

Unit - II After studied unit-2, the student will be able to The students will be able to prepare the business letter and letter style.

Unit - III After studied unit-3, the student will be able to The students will be able to know the different types of business letter's, offers, orders and complaints.

Unit - IV After studied unit-4, the student will be able to The students will able to acquire the knowledge of preparing letters of application with cv, resume etc.

Unit - V After studied unit-5, the student will be able to The students will be able to understand the types and characteristics of business report.

BUSINESS STATISTICS AND OPERATION RESEARCH (CCM34)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to Acquired skills in analysis and interpretation of data.

Unit - II After studied unit-2, the student will be able to Gained knowledge on measures of Central Tendency and their application in business

Unit - III After studied unit-3, the student will be able to Learned about Correlation and Regression

Unit - IV After studied unit-4, the student will be able to Get familiarized about Index Numbers and Time series

Unit - V After studied unit-5, the student will be able to Solved challenging problems by using appropriate statistical tools

CORPORATE ACCOUNTING – II (CCM 41)

Course Outcomes Units CO Statement

Unit - I After studied unit-1, the student will be able to Impart the knowledge of valuing shares and goodwill of the company.

Unit - II After studied unit-2, the student will be able to Understand the accounting procedures related to Alteration of share capital and Internal Reconstruction.

Unit - III After studied unit-3, the student will be able to Be acquainted with accounting procedures for Mergers and acquisitions.

Unit - IV After studied unit-4, the student will be able to Prepare consolidated financial statements of Holding company and its subsidiary companies.

Unit - V After studied unit-5, the student will be able to Know the accounting procedures related to preparation of bank accounts.

BUSINESS MANAGEMENT (CCM 42)

Course Outcomes Units CO Statement

Unit - I After studied unit-1, the student will be able to Knowledge pertaining to Fundamentals of management

Unit - II After studied unit-2, the student will be able to Knowledge pertaining to develop planning

Unit - III After studied unit-3, the student will be able to Understand organising and staffing

Unit - IV After studied unit-4, the student will be able to Knowledge pertaining to motivation structures.

Unit - V After studied unit-5, the student will be able to Advanced Programming techniques using control and coordination

COMPANY LAW (CCM 43)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to To learn about Nature, Scope and Kinds of Company

Unit - II After studied unit-2, the student will be able to To gain effective knowledge about Formation of a Company

Unit - III After studied unit-3, the student will be able to To effectively impart knowledge about Prospectus of company B.Com.: Syllabus (CBCS) 25

Unit - IV After studied unit-4, the student will be able to To know about Members of Company

Unit -V After studied unit-5, the student will be able to To learn about Directors of Company and Winding up of Company

MODERN BANKING (CCM 44)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to The students will be able to acquire the knowledge of different types of banking.

Unit - II After studied unit-2, the student will be able to The students will be able to know the measures and methods of credit control in central bank.

Unit - III After studied unit-3, the student will be able to The students will be able to understand the concept of SBI.

Unit - IV After studied unit-4, the student will be able to The students will be able to study the different types of development banking in India.

Unit - V After studied unit-5, the student will be able to The students will be able to acquire the new concepts of E-Banking.

COST ACCOUNTING – I (CCM 51)

Course Out Comes Units CO Statement

Unit- I After studied unit-1, the student will be able to To taught the Nature and Scope of Cost Accounting, and Computation of Cost Sheet and Tenders.

Unit- II After studied unit-2, the student will be able to To learn the preparation of Material Purchase and Control.

Unit - III After studied unit-3, the student will be able to To impart knowledge about Methods of pricing of Material Issues.

Unit- IV After studied unit-4, the student will be able to To study about preparation of Labour Cost Control.

Unit-V After studied unit-5, the student will be able to To gain knowledge about Distribution of Overheads.

PRACTICAL AUDITING (CCM 52)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to The students will be able to acquire the basic concepts of auditing.

Unit - II After studied unit-2, the student will be able to The students will be able to the meaning and importance of internal audit, internal check and control.

Unit - III After studied unit-3, the student will be able to The students will be able to understand the verification of vouchers and vouching.

Unit - IV After studied unit-4, the student will be able to The students will be able to study the auditors appointment, removal, qualification and disqualification.

Unit - V After studied unit-5, the student will be able to The students will be able to identify the auditors reports and its kinds.

MANAGEMENT ACCOUNTING (CCM 53)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to To learn the preparation of Financial Statement Analysis.

Unit - II After studied unit-2, the student will be able to To gain effective knowledge about Ratio Analysis

Unit - III After studied unit-3, the student will be able to To impart knowledge about Fund Flow and Cash Flow Analysis.

Unit - IV After studied unit-4, the student will be able to To study about Marginal Costing techniques.

Unit - V After studied unit-5, the student will be able to To know about the preparation of Budget and Budgetary Control

INCOME TAX LAW AND PRACTICE – I (CCM 54)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to To understand the basic level of Income tax Act.

Unit - II After studied unit-2, the student will be able to To know the tax calculation on house property income

Unit - III After studied unit-3, the student will be able to To achieve knowledge on tax calculation of salaried people.

Unit - IV After studied unit-4, the student will be able to To obtain knowledge on income tax of business/ professional income.

Unit -V After studied unit-5, the student will be able to To understand the administrative set up of income tax department and their powers

COST ACCOUNTING – II (CCM 61)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to To taught the Computation of Job, Batch, Contract Costing

Unit - II After studied unit-2, the student will be able to To learn the preparation of Process Costing.

Unit - III After studied unit-3, the student will be able to To impart knowledge about calculation of Operating Costing

Unit - IV After studied unit-4, the student will be able to To study about preparation of Standard Costing.

Unit - V After studied unit-5, the student will be able to To gain knowledge about Reconciliation of Cost and Financial Accounts.

INCOME TAX LAW AND PRACTICE – II (CCM 62)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to To know the calculation of taxes for gain on capital asset.

Unit - II After studied unit-2, the student will be able to To know the tax on other source and its calculation.

Unit - III After studied unit-3, the student will be able to To know the adjustment of carry forward Income/Expenditure.

Unit - IV After studied unit-4, the student will be able to To Expertise in preparation of total income of individual/ firm etc.

Unit - V After studied unit-5, the student will be able to To gain knowledge on filing of income tax returns.

FINANCIAL MANAGEMENT (CCM 63)

Course Out Comes Units CO Statement

Unit - I After studied unit-1, the student will be able to To understand the basic Principles and practices of Financial management.

Unit- II After studied unit-2, the student will be able to Determining the amount of Capital, Organization and Structure. Reduce cost of Capital and Operating Risks

Unit - III After studied unit-3, the student will be able to To have the knowledge and practice of arriving financial Decision makings

Unit - IV After studied unit-4, the student will be able to To acquire practical knowledge on Calculation of working capital

Unit - V After studied unit-5, the student will be able to To gain knowledge on leverage and portfolio management

PG DEPARTMENT OF HISTORY

B.A HISTORY PROGRAMME

Programme outcomes PO.No	Upon completion of the B.A HISTORY Degree Programme the graduates will be able to
PO-1	To know about the subject of History and to cater the needs of the society.
PO-2	To cultivate the knowledge about administration, social and cultural history.
PO-3	To learn about the ethic value and scope of the subject.
PO-4	To understand the contemporary issues ,to achieve various aspects of the life.
PO-5	To motivate the achievements, goals and develop in various fields.

Programme Specific Outcomes: PSO.No	Upon completion of these courses the students would
PSO-1	To understand the background of our culture, tradition, religion and History.
PSO-2	To develop the interest in the study of History.

PSO-3	To develop the interest to collect Archaeological material to built History.
PSO-4	To motivate the students to know or visit historical sites, archaeological museum and tourist centers.
PSO-5	To motivate the students to face competitive examinations.

BBA

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

PROGRAM SPECIFIC OUTCOMES:

PSO1 Develop ethical thinking in personal and professional life.

PSO2 Develop functional and general management skills.

PSO3 Inculcate a global mind set.

PSO4 Evaluate different business problems using analytical and creative, and integrative abilities.

PSO5 Build and Demonstrate leadership, teamwork, and social skills.

PSO6 Communicate effectively in different complex contexts.

PSO7 Analyze socio-political-economic environment of business organizations

SEMESTER I PRINCIPLES OF MANAGEMENT

MANAGEMENT THEORY AND PRACTICES

CO1 Review the evolution of management

CO2 Understand the functions of management- planning, organizing, staffing, directing and controlling.

CO3 Understand the management process, strategic planning and decision making

CO4 Focus modern practices in Management-TQM, KAIZEN, Six Sigma, Lean Management and OBM

CO5 Understand the concept of business ethics, IEM and corporate governance

CO6 Describe the concept of CSR in the business world.

MANAGERIAL ECONOMICS

CO1 Understand the concept of managerial economics in decision making..

CO2 Apply theoretical concept of Demand and Supply forces.

CO3 Analyze business decisions by integrating the concepts of Economics and statistics.

CO4 Understand the production function and Cost function

CO5 Analyze operations of market under varying competitive conditions.

CO6 Understand the concept of business cycle.

CO7 Evaluate various forecasting techniques used in business.

FINANCIAL ACCOUNTING

CO1 Understand and apply the accounting concepts principles and conventions

CO2 Understand the accounting transactions and preparation of final accounts of sole proprietor and partnership concerns.

CO3 Understand and compute interest in hire purchase and installment system.

CO4 Differentiate the accounting procedure of Hire Purchase System and Instalment System

CO5 Understand and prepare the consolidated profit and loss account and balance sheet of branches.

CO6 Apply the procedures for the issue of shares and debentures according to the accounting Standards.

MARKETING MANAGEMENT

CO1 Understand marketing concepts and marketing information system.

CO2 Describe the concept of marketing mix and Selling proposition for specific products.

CO3 Understand the Consumer behaviour and their decision making process

CO4 Interpret market Segmentation, Targeting and Positioning.

CO5 Explain product planning and development.

CO6 State the pricing strategies, methods and promotion techniques.

CO7 Understand and differentiate the unorganized and organized product distribution channels.

PROFESSIONAL BUSINESS SKILLS

CO1 Apply professionalism in communication while handling a business

CO2 Understand importance of email in a business and also apply email etiquette in the business world.

CO3 Explain the methods of e-learning, e-content development and tools

CO4 Describe the concept and importance of business data analysis

CO5 Understand socio-cyber informatics and emerging e-governance initiatives.

CO6 Apply new trends in digital marketing techniques to promote a business

CORPORATE ACCOUNTING

CO1 Develop the knowledge of IFRS and Indian Accounting Standards

CO2 Understand and apply IndAS on inventories, PPE, provisions, Income- tax, borrowing cost and intangible assets.

CO3 Understand the accounting procedures of redemption of shares of debentures.

CO4 Understand and prepare the financial statements of joint stock companies as per company accounts

CO5 Apply critical thinking skills by identifying and analysing an accounting issue using the relevant accounting framework.

CO6 Calculate ratios relating to a company's profitability, liquidity and solvency.

FINANCIAL MANAGEMENT

CO1 Develop the knowledge of finance function and understand the role of financial manager

CO2 Understand classification of capital structure and EBIT-EPS analysis.

CO3 Compute operating, financial and combined leverages for the financing decisions.

CO4 Compute the techniques of capital budgeting for investment decision purposes

CO5 Understand and apply the Concepts and determinants of Working Capital in cash management, receivables management and inventory management.

CO6 Understand the dividend policies and determinants for dividend decision making

BUSINESS REGULATIONS

CO1 Understand the meaning and definition of Indian Contract Act and its classifications.

CO2 Classify the special Contracts of indemnity and Contract of guarantee.

CO3 Describe the contract of agency and delegation of authority of principal and agent.

CO4 Understand the legal aspects of Sale of Goods Act 1930.

CO5 Recognize the rights of the consumers under Consumer Protection Act 1986 and its redressal agencies.

CO6 Understand the features and components of competition and information acts.

ENTREPRENEURSHIP DEVELOPMENT

CO1 Understand the role of entrepreneur in Economic development

CO2 Evaluate the problems of Entrepreneurial development programs

CO3 Analyse the institutional support and incentives available to entrepreneur in India.

CO4 Apply the steps required for the registration of SSI.

CO5 Describe the setting up of a Micro, Small and Medium enterprises

CO6 Describe the purpose and general principles of good reporting system

BANKING AND INSURANCE

CO1 Describe the origin and development of banking

CO2 Explain the various negotiable instruments

CO3 Apply the modern E-banking services

CO4 Apply the procedure for the application and activation of M-banking and telebanking

CO5 Describe the concept of insurance as a social security tool for economic development

CO6 Understand the general principles of life insurance contract and guidelines of IRDA

COST AND MANAGEMENT ACCOUNTING

CO1 Understand the methods, techniques of costing and its application for decision making.

CO2 Compute EOQ and pricing of issue of materials

CO3 Calculate Labour cost under time rate and piece rate system

CO4 Describe the overhead allocation and preparation of the cost sheet

CO5 Determine methods of costing adopted in various industries

CO6 Describe the concept of marginal costing, break even chart and preparation of different types of budget.

CORPORATE REGULATIONS

CO1 Understand the features of company's act regarding in different types of companies.

CO2 Describe the formation of companies and different documents of the company.

CO3 Understand the share capital and other relevant provisions of the same.

CO4 Recognize the management, corporate governance, corporate social responsibility and some basic aspects of SEBI.

CO5 Explain the importance of SEBI and Securities Appellate Tribunal.

QUANTITATIVE TECHNIQUES FOR BUSINESS

CO1 Understand the meaning and discipline of QT in business

CO2 Apply time series analysis to forecast the future trends.

CO3 Understand and apply the methods of constructing index numbers.

CO4 Apply statistical tools- correlation and regression to establish degree of relationship between two variables

CO5 Understand the concept of probability and approaches to the theorems of probability.

CO6 Apply set theory and calculations using Venn Diagrams in various statistical analysis.

CO7 Explain the theoretical distributions and its fittings.

HUMAN RESOURCES MANAGEMENT

CO1 Understand the evolution and development of HRM

CO2 Describe the importance of HR planning ,process and methods of job analysis

CO3 Explain the sources of recruitment and selection process

CO4 Describe the importance of on the job training and off-the job training in HR

CO5 Understand the importance of performance appraisal and factors influencing employee satisfaction

CO6 Express an overview of HRM trends and challenges

BUSINESS RESEARCH METHODS

CO1 Understand the basic concepts of business research.

CO2 Understand research problems and to formulate research design.

CO3 Apply suitable method of primary data collection and frame questionnaire, interview and schedule.

CO4 Apply the processing stages by using different types of measurements of central tendency, dispersion and index numbers

CO5 Describe the steps in drafting reports and format in writing reference and bibliography.

OPERATIONS MANAGEMENT

CO1 Understand the concept of operations management in production unit

CO2 Understand the factors determining plant location and plant layout

CO3 Understand assembly line balancing and material handling equipments in a production unit

CO4 Understand the importance of capacity planning in production

CO5 Apply the work measurement techniques in time and motion study.

CO6 Describe the master production schedule and inventory management in aggregate planning.

CO7 Analyze quality in a production using 7 tools of analysis charts and tools

INCOME TAX

CO1 Understand the concepts and rules of taxation of individual.

CO2 Recognize agriculture income from other incomes

CO3 Computing total income and tax liability of individuals

CO4 Compute allowable expenses and non-allowable expenses for finding the profits and gains of business

CO5 Describe the provisions regarding deductions in capital gains

CO6 Compute total income of individuals for tax calculations.

BCA

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives
PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

Program Specific Outcomes:

PSO1 Understand the basic principles of program development by identifying and formulating problems and integrate resources to decisions using the problem solving approach

PSO2 Understand data based reasoning through translation of data into abstract concepts using computing technology based tools and develop real life applications

PSO3 Understand and recognize different value system and the moral dimensions of software development and applications and their outcomes and accept the responsibility for them

PSO4 Design web applications by understanding the global perspective and make meaning of the world by connecting people ideas, media and technology

M.SC COMPUTER SCIENCE

[SEMESTER I]:

COURSE OUTCOMES

CO1 - Students are able to have a broad understanding of database concepts and database management system software

CO2 - Students are able to have a high-level understanding of major DBMS components and their function

CO3 - Students are able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.

CO4 - Students are able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.

CO5 - Students are able to program a data-intensive application using DBMS APIs.

ENTERPRISE JAVA PROGRAMMING

PROGRAMMING USING C#.NET

COURSE OUTCOMES

CO1 - Students are able to know the differences between desktop application and web application.

CO2 - Students are able to construct classes, methods, and access modifier and instantiate objects.

CO3 - Students are able to create and manipulate GUI components in C# for windows application.

CO4 - Students are able to code solutions and compile C# projects within the .NET framework.

CO5 - Students are able to build the desktop application with Database.

[SEMESTERII: CORE] [Hrs: 5/Credits: 3]

ADVANCED ENTERPRISE JAVA PROGRAMMING

COURSE OUTCOMES

CO1 - Students are able to work with JSP, JSF and Servlet using MVC approach.

CO2 - Students are able to develop the web applications using the MVC framework provided by Apache Struts

CO3 - Students are able to develop Enterprise web application using EJB.

CO4 - Students are able to implement the Object-Relation Mapping technique using Hibernate

CO5 - Students are able to get knowledge of Aspect Oriented Programming using Spring and Spring MVC.

[SEMESTERII: CORE] [Hrs: 4/Credits: 3]

DESIGN AND ANALYSIS OF ALGORITHMS

COURSE OUTCOMES

CO1 - Students are able to prove the correctness and analyze the running time of the basic algorithms for those classic problems.

CO2 - Students are able to understand the basic knowledge of algorithm design and its implementation.

CO3 - Students are able to learn the key techniques of Divide-and-Conquer and Greedy Method.

CO4 - Students are able to recognize the concept of Dynamic Programming and its algorithms

CO5 - Students are able to familiarize with Backtracking algorithms.

CO6 - Students are able to understand Branch and Bound techniques for designing and analyzing algorithms.

[SEMESTERII: CORE] [Hrs: 5/Credits: 3]

WEB APPLICATION USING C#.NET

COURSE OUTCOMES

CO1 - Students are able to know the differences between desktop application and web application.

CO2 - Students are able to construct classes, methods, and access modifier and instantiate objects.

CO3 - Students are able to create and manipulate GUI components in C# for windows application.

- CO4** - Students are able to code solutions and compile C# projects within the .NET framework.
CO5 - Students are able to build the desktop application with Database.

SEMESTER IV

MOBILE APPLICATION DEVELOPMENT

COURSE OUTCOMES

- CO1** - Students are able to know about the mobile application development environment
CO2 - Students are able to develop interface and design
CO3 - Students are able to use the techniques in Mobile Applications

THIRUVALLUVAR UNIVERSITY

MASTER OF SCIENCE

M.Sc. Mathematics

PO1 Attained profound Expertise in Discipline

PO2 Acquired Ability to function in multidisciplinary domains

PO3 Attained ability to exercise Research Intelligence in investigations and Innovations

PO4 Learnt Ethical Principles and be committed to Professional Ethics

PO5 Incorporated Self-directed and Life-long Learning

PO6 Obtained Ability to maneuver in diverse contexts with Global Perspective

PO7 Attained Maturity to respond to one's calling

Program Specific Outcomes

PSO1 Develop a strong base in theoretical and applied Mathematics.

PSO2 Acquire their analytical thinking, logical deductions and rigor in reasoning.

PSO3 Apply the tools to model the problems mathematically, analyze data quantitatively and create the ability to access and communicate mathematical information.

PSO4 Acquire knowledge in recent developments in various branches of Mathematics and thus pursue research.

DEGREE COURSE UNDER CBCS (With effect from 2020-2021)

Name of the Course : Algebra-1 Semester: ICredits : 5

Paper type : Core Hours of teaching : 90 hrs.

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- demonstrate ability to think group actions critically by Cayley's theorem and apply the Sylow's theorems to describe the structure of certain finite abelian groups
- know the internal and external direct product of groups. Also, apply the structure theorem on abelian groups to find the non-isomorphic abelian groups of certain orders.
- check the irreducibility of a given polynomial
- know about module and difference between the algebraic structures, Group, Ring and Module.
- know the Linear transformation in canonical forms. Also, the matrix form of linear transformation and its properties.

Name of the Course: Real Analysis I Credits: 5

Paper type: Core Hours of teaching: 90hrs

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- understand the concept of functions of bounded variation.
- Discuss the Riemann integration and to solve its related problems.
- Analyze the sequences and series of function and their limits
- Acquire the knowledge of Infinite Series and Infinite products
- have knowledge of uniform convergence of sequence and series.

Name of the Course: Ordinary Differential Equations Credits: 4

Paper type: Core Hours of teaching: 90hrs

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- solve Second order linear differential equations.
- solve nth order differentialequations.
- solve differential equations with variablecoefficients.
- solve differential equations with regular singularpoints.
- examine the existence and uniqueness of solutions of differentialequations.
- apply ODE problems for real timeapplications.

Name of the Course : Mechanics Credits : 3

Paper Type : Internal Elective Hours of Teaching: 90 hrs

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- know mechanical systems under generalized coordinate systems.
- know the Derivation of Lagrange's equations.

- know the Hamilton's Principle.
- know the Hamilton-Jacobi Equation and separability.
- know the Lagrange and Poisson brackets.

Name of the Programme : M.Sc. Mathematics Semester : II

Name of the Course : Algebra - II Credits : 5

Paper Type : Core

Hours of Teaching : 90hrs

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- demonstrate ability to find the extension field of polynomials. Also, gets the clear understanding of algebraic extensions and algebraic closures.
- work with the consequences of Galois Theory such as insolubility of certain classes of equations.
- work with finite fields and certain important theorems related to Finite division ring
- use of Frobenius integral quaternions and the Four square theorem.

Name of the Course : Real Analysis - II Credits : 5 Paper Type : Core Hours of Teaching : 90hrs-

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- understand the concept of Fouier series and Fourier integrals
- analyse the functions of several variables.
- discuss the inverse function theorem and implicit function theorem
- acquire the knowledge of Lebesgue measure
- analyse the concept of inner and outer measure

Name of the Course: PartialDifferentialEquations Credits : 4 Paper Type : Core Hours of Teaching : 90hrs

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- formulate and solve Partial Differential Equations (PDE) and apply PDE problems for real timeapplications.
- solve partial differential equations of first and second order.
- classify the partial differential equations
- identify the canonical forms of the partial differentialequations.
- analyse the solution of Laplace, Diffusion and Wave equationsin Cylindrical and polar coordinates • discuss the existence and uniqueness of solutions and Duhamel's principle

Name of the Course : Difference Equations Credits : 3 Paper Type : Internal Elective

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- solve problems on Linear Difference Equations of Higher order
- understand the system of Linear Difference Equations
- apply Z-transform techniques in difference equations
- solve problems on Oscillation Theory and Asymptotic Behaviour of Difference Equation.

HUMAN RIGHTS COMPULSORY PAPER

Course Out Comes

- After studying unit-1, the student will be able to know the nature of human rights its origin , the theories, the movements in the march of human rights and the facets of future of human rights.
- After studying unit-2, the student will be able to know the international dimension of human rights, the role of UN and the global effort in formulating conventions and declarations
- After studying unit-3, the student will be able to Perceive the regional developments of human rights in Europe , Africa and Asia and the enforceable value of human rights in international arena.
- After studying unit-4, the student will be able to have knowledge on the human rights perspectives in India, more developed by its constitution and special legislations
- After studying unit-5, the student will be able to know the redressal mechanism made available in case of human rights violation confined to India.

SEMESTER III

COMPLEX ANALYSIS – I

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- Understand the differentiability and analytic functions.
- comprehend the elementary functions and complex integration.
- acquire the knowledge of conformal mappings and Mobius transformations
- discuss the Maximum Principle, Schwarz' Lemma And Liouville's Theorem.
- procure the applications of the Classification of Singularities.

TOPOLOGY

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- know the basics of open and closed sets and the significance of the topological spaces.
- comprehend the continuous functions on topological spaces, product topology and topology induced by the metric.
- understand the connected spaces, connected subspaces, components and local connectedness.

- acquire the notions of compactness, compact subspaces, limit point compactness and local compactness.
- understand the various countability axioms and the separation axioms.

DIFFERENTIAL GEOMETRY

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- understand the characteristics of curves and surfaces in space and also the fundamental existence theorem for space curves.
- discuss the intrinsic properties of surface.
- analyse the geodesics and its normal properties and familiar with Gauss-Bonnet Theorem.
- discuss the developable.
- understand Hilbert's Lemma and the fundamental existence theorem for surface theory.

CORE ELECTIVE

DISCRETE MATHEMATICS

Course Learning Outcomes

After the successful completion of this course, the students will be able to:

- understand about Lattices, applications of Lattices
- discuss the Boolean algebras and polynomials
- procure strong theoretical background on Finite Fields and Polynomials.
- analyse the concept of coding theory and factorization of polynomials
- identify the various types of codes

SEMESTER IV

COMPLEX ANALYSIS – II

Course Learning Outcomes

After the successful completion of this course, the students will be able to

- Understand the concepts of residues
- Evaluate the integrals using Cauchy residue theorem.
- comprehend the harmonic functions and its consequences.
- understand the conformal mappings, normal families and Riemann mapping theorem.
- acquire the concepts of entire and meromorphic functions.
- procure the applications of analyticity and special functions.

FLUID DYNAMICS

Course Learning Outcomes

After the successful completion of this course, the students will be able to

- understand the concepts of kinematics of fluids in motions.
- analyse the examples related to the equation of continuity and acceleration of a fluid
- discuss two-dimensional flows, the stream function and the Milne Thompson Circle theorem.
- acquire the concept of three-dimensional flows and derive Stoke's stream function
- discuss the viscous flows and Navier – Stokes equations of motion of a Viscous fluid.

FUNCTIONAL ANALYSIS

Course Learning Outcomes

After the successful completion of this course, the students will be able to

- analyse the Banach space with examples
- understand the natural embedding N in N^{**}
- discuss Banach spaces with the Hilbert spaces
- acquire the open mapping theorem, orthonormal complements and orthonormal sets
- derive Gelgand-Neumark theorem
- prove the structure theorems

CORE ELECTIVE

CALCULUS OF VARIATION AND INTEGRAL EQUATIONS

Course Learning Outcomes

After the successful completion of this course, the students will be able to

- understand the concept of calculus of variation and its applications
- discuss the various types of integral equations
- analyse the methods of successive approximations and Fredholm theory
- acquire knowledge on applications to Ordinary Differential Equations.

Field Study

There will be field study which is compulsory in the first semester of all PG courses with 2 credits. This field study should be related to the subject concerned with social impact. Field and Topic should be registered by the students in the first semester of their study along with the name of a mentor before the end of the month of August. The report with problem identification and proposed solution should be written in not less than 25 pages in a standard format and it should be submitted at the end of second semester. The period for undergoing the field study is 30 hours beyond the instructional hours of the respective programme. Students shall consult their mentors within campus and experts outside the campus for selecting the field and topic of the field study. The following members may be nominated for confirming the topic and evaluating the field study report.

- (i). Head of the respective department
- (ii). Mentor
- (iii). One faculty from other department

****Mooc Courses**

Inclusion of the Massive Open Online Courses (MOOCs) with zero credits available on SWAYAM, NPTEL and other such portals approved by the University Authorities.

[SEMESTER II: OPEN ELECTIVE] [Hrs: 3/Credits: 3] C. PRINCIPLES OF WEB DESIGN

COURSE OUTCOMES

After the completion of the course the students will be able:

- Able to learn how to combine basic HTML elements to create Web pages.
- Understand the use of HTML tags and tag attributes to control a Web page's appearance.
- Capable to learn how to add absolute URLs, relative URLs, and named anchors to Web pages.
- Gain a good understanding of using tables and frames as navigational aids on a Web site.
- Able to control appearance webpages by applying style sheet.

OPEN ELECTIVE

INTRODUCTION TO IOT

OUTCOMES

By the end of the course, the student shall be able to

- Design and Develop IOT based solution for real world applications
- Realize the evolution of Internet in Mobile Devices, Cloud & Sensor Networks
- Understand building blocks of Internet of Things and its characteristics.
- Understand the concept of IOT and its application.

[OPEN ELECTIVE] [Hrs: 3/Credits: 3]

INTRODUCTION TO COMPUTER APPLICATION

COURSE OUTCOMES

After the completion of the course the students will be able:

- Know about computer and basic applications of computer.
- knowledge about operating system
- Aim at imparting a basic level appreciation Programme

PRINCIPLES OF WEB DESIGN

COURSE OUTCOMES

After the completion of the course the students will be able:

- Able to learn how to combine basic HTML elements to create Web pages.
- Understand the use of HTML tags and tag attributes to control a Web page's appearance.
- Capable to learn how to add absolute URLs, relative URLs, and named anchors to Web pages.
- Gain a good understanding of using tables and frames as navigational aids on a Web site.
- Able to control appearance webpages by applying style sheet.

OPEN ELECTIVE

INTRODUCTION TO C#

COURSE OUTCOMES

After the completion of the course the students will be able:

- To know the differences between desktop application and web application.
- To construct classes, methods, and access modifier and instantiate objects.
- To create and manipulate GUI components in C# for windows application.
- To code solutions and compile C# projects within the .NET framework.
- To build the desktop application with Database.

M.Sc Physics

PO1 Attained profound Expertise in Discipline

PO2 Acquired Ability to function in multidisciplinary domains

PO3 Attained ability to exercise Research Intelligence in investigations and Innovations

PO4 Learnt Ethical Principles and be committed to Professional Ethics

PO5 Incorporated Self-directed and Life-long Learning

PO6 Obtained Ability to maneuver in diverse contexts with Global Perspective

PO7 Attained Maturity to respond to one's calling

Program Specific Outcomes

PSO1 Understand the advanced concepts of Classical Mechanics Electrodynamics, Solid State Physics and Spectroscopy.

PSO2 Recognize the significance of mathematical modelling, computation simulation technique and acquire ability to solve problems using mathematical methods.

PSO3 Acquire systematic understanding of the theoretical basis of topics Quantum Mechanics, Statistical Mechanics, Nuclear and Particle Physics.

PSO4 Understand and apply the various concepts of Electronics, Microprocessors, Microcontrollers, Experimental Techniques, Laser Systems and Optical Fibres.

PSO5 Apply and verify theoretical concepts through laboratory experiments. Understand the current research activities.

METHODOLOGY OF SCIENCE AND BASIC MECHANICS

CO1 Understand the features, methods and limitations of science.

CO2 Understand and apply the basic concepts of Newtonian Mechanics to physical systems.

CO3 Understand and apply the basic idea of work-energy theorem to physical systems.

CO4 Understand and apply the rotational dynamics of rigid bodies.

CO5 Understand the basic ideas of elasticity.

MECHANICS

CO1 Understand the features of non-inertial systems and fictitious forces.

CO2 Understand and analyze the features of central forces with respect to planetary Motion.

CO3 Understand the basics ideas of harmonic Oscillations.

CO4 Understand and analyze the basics concepts of wave motion.

CO5 Understand and apply the fundamentals of vector calculus

CO6 Understand and analyze the electrostatic properties of physical systems

CO7 Understand the mechanism of electric field in matter

CO8 Understand and analyze the magnetic properties of physical systems

CO9 Understand the mechanism of magnetic field in matter.

COMPUTATIONAL PHYSICS

CO1 Understand the basics of computer, Python coding and debugging of programs to solve a variety of problems.

CO2 Understand the applications of Python Modules .

CO3 Understand the basic techniques of numerical analysis.

CO4 Understand and apply computational techniques to physical problems.

QUANTUM MECHANICS

CO1 Understand the particle properties of electromagnetic radiation.

CO2 Describe Rutherford – Bohr model of the Atom.

CO3 Understand the wavelike properties of Particles.

CO4 Understand and apply the Schrödinger equation to simple physical systems.

CO5 Apply the principles of wave mechanics to the Hydrogen atom.

ELECTRONICS (ANALOG & DIGITAL)

CO1 Understand the basic principles of photodiodes, pn junction solar cells, rectifiers and dc power supplies

CO2 Understand the principles of transistor.

CO3 Understand the working and designing of transistor amplifiers and oscillators.

CO4 Understand the basic operation of Op – Amp and its various applications.

CO5 Understand the basics of digital electronics and Computer Organization.

STATISTICAL PHYSICS, SOLID STATE PHYSICS, SPECTROSCOPY & PHOTONICS

CO1 Understand the basic principles of statistical physics and its applications.

CO2 Understand the basic aspects of crystallography in solid state physics.

CO3 Understand the basic elements of Spectroscopy.

CO4 Understand the basics ideas of microwave and infra red spectroscopy.

CO5 Understand the fundamental ideas of Photonics.

NUCLEAR PHYSICS AND PARTICLE PHYSICS

CO1 Understand the basic aspects of nuclear structure and fundamentals of radioactivity

CO2 Describe the different types of nuclear reactions and their applications

CO3 Understand the principle and working of particle detectors

CO4 Describe the principle and working of particle accelerators

CO5 Understand the basic principles of elementary particle physics

PRACTICAL I

CO1 Apply and illustrate the concepts of properties of matter through experiments

CO2 Apply and illustrate the concepts of electricity and magnetism through experiments

CO3 Apply and illustrate the concepts of optics through experiments

CO4 Apply and illustrate the principles of electronics through experiments

CO5 Apply and illustrate the concepts of properties of matter through experiments

CO6 Apply and illustrate the concepts of electricity and magnetism through experiments

CO7 Apply and illustrate the concepts of optics and spectroscopy through experiments

CO8 Apply and illustrate the principles of heat through experiments

CO9 Apply and illustrate the principles of semiconductor diode and transistor through Experiments

CO10 Apply and illustrate the principles of transistor amplifier and oscillator through Experiments

CO11 Apply and illustrate the principles of digital electronics through experiments

CO12 Analyze and apply computational techniques in Python programming

PROJECT

CO1 Understand research methodology

CO2 Understand and formulate a research\project

CO3 Design and implement a research project

CO4 Identify and enumerate the scope and limitations of a research project

RESEARCH METHODOLOGY

CO1 Understand research methodology

CO2 Understand the concept of measurement in research

CO3 Understand the significance and limitations of experimentation in research

CO4 Understand and formulate a research project, ethics and responsibility of scientific research

B.Sc Physics

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

Program Specific Outcomes:

PSO1 Understand the basic concepts of methodology of science and the fundamentals of mechanics, properties of matter and electrodynamics

PSO2 Understand the theoretical basis of quantum mechanics, relativistic physics, nuclear physics, optics, spectroscopy, solid state physics, astrophysics, statistical physics, photonics and thermodynamics

PSO3 Understand and apply the concepts of electronics in the designing of different analog and digital circuits.

PSO4 Understand the basics of computer programming and numerical analysis

PSO5 Apply and verify theoretical concepts through laboratory experiments

Classical Mechanics

CO1 Understand the necessity of Lagrangian, and Hamiltonian formalism for solving problems in physics and analyse which of these strategies is most useful for a given problem.

CO2 Understand the classical background behind the quantum mechanics and analyse it using canonical transformations and Hamilton – Jacobi method

CO3 Understand and apply the theory of rigid body motion in several areas of physics

CO4 Understand the theory of small oscillations and apply it to several areas of physics.

CO5 Describe the classical applications in the field of nonlinear dynamics and chaos

Mathematical Physics -1

CO1 Understand and apply the concept of Vector Calculus in different coordinate system

CO2 Understand the aspects of Matrices & Tensor

CO3 Understand about Second order differential equations

CO4 Understand and analyze different Special functions

CO5 Understand and apply the concepts of Fourier Series, Fourier Transform & Laplace Transform

Electronics

CO1 Understand the different types of FET and it's applications and digital MOSFETs

CO2 Understand the construction and working of different type of microwave and photonic devices

CO3 Understand the features of operational amplifier and properties of it

CO4 Understand the applications of OPAMP and uses of it

CO5 Analyze the digital- electronics and vice versa of counters and flip flop

Quantum Mechanics

CO1 Understanding the fundamental mathematical aspects, formulation and development of quantum mechanics

CO2 Understanding the dynamical aspects of quantum mechanics

CO3 Understanding the development of angular momentum and how it is suitable for various applications

CO4 Applied the knowledge about potential into various environments

CO5 Understanding how Invariance Principles and Conservation Laws are influencing operators and wave functions

Statistical Mechanics

CO1 Understanding the statistical basics of thermodynamics

CO2 Analyze the three ensembles of statistical mechanics

CO3 Understanding the formulation of quantum statistics

CO4 Apply the quantum statics to Ideal Bose systems

CO5 Apply the quantum statistics to Ideal Fermi systems and understand the Ising model

Computational Physics

CO1 Develop proficiency to write programs using repetitive control structures, selection statements, built-in objects, especially the object-oriented concepts of Python and the usage of data structures like lists, dictionaries.

CO2 Gain a complete understanding in creation of arrays and matrices, its operations and plotting of visually appealing graphs using Python

CO3 Create a problem solving capability using basic techniques of numerical analysis and able to select suitable method for solving various physics problems.

CO4 Learn how to apply advanced python programming to visualize physical problems/ real world problems.

Nuclear And Particle Physics

CO1 Understanding the basic concepts about the nucleus and analyze its internal structure and properties

CO2 Understand and analyze the nuclear decays and their probabilities

CO3 Analysis of nuclear models and their reactions

CO4 Explain different methods for nuclear radiation detection and basic ideas for nuclear electronics CO5 Gain the knowledge on elementary particles, their interactions, and experimental evidences for the existence of quarks

Solid State Physics

CO1 Understanding various crystal structures are expected

CO2 Understanding lattice vibrations and how it influences fundamental properties of materials

CO3 Understanding different theoretical models to explain the fundamental properties of materials

CO4 Understanding how electric and magnetic properties in materials are generated and their classification

CO5 Understanding different environments in which superconducting properties in materials are generated

CO6 Understanding nanomaterials and how shape or size influences the material properties

Experimental Techniques

CO1 Explain the working of vacuum unit and find its applications

CO2 Basic knowledge of thin film materials and its deposition technique and find its applications

CO3 Understanding of various particle accelerators and its application

CO4 Analyze the Materials by various nuclear techniques CO5 Identify the Structure of the material by X-ray Diffraction

Atomic And Molecular Spectroscopy

CO1 Understand various concepts in Atomic Spectroscopy

CO2 Understand the aspects of Microwave & IR spectroscopy

CO3 Understand the various aspects of linear & non-linear Raman Effect

CO4 Understand Electronic Spectroscopy of molecules

CO5 Understand the fundamental concepts of NMR, ESR and Mössbauer Spectroscopy

Laser Systems, Optical Fibers And Applications

CO1 Discuss theory of lasing action

CO2 Illustrate various laser systems and compare their working principle.

CO3 To outline various nonlinear process and to design various experimental techniques

CO4 To illustrate various application of lasers

CO5 Understand and explain optical fibers and its applications

M.Sc Chemistry

PO1 Attained profound Expertise in Discipline

PO2 Acquired Ability to function in multidisciplinary domains

PO3 Attained ability to exercise Research Intelligence in investigations and Innovations

PO4 Learnt Ethical Principles and be committed to Professional Ethics

PO5 Incorporated Self-directed and Life-long Learning

PO6 Obtained Ability to maneuver in diverse contexts with Global Perspective

PO7 Attained Maturity to respond to one's calling

Program Specific Outcomes

PSO1 To achieve in depth knowledge in organic, inorganic, physical, theoretical chemistry.

PSO2 To study modern courses of chemistry as electives

PSO3 To understand the role of played by chemistry in industrial and societal applications

PSO4 To provide hand on training in laboratory experiments of inorganic, physical and organic chemistry, computational chemistry

PSO5 A Apply the knowledge and practical skills to innovative practices

PSO6 To bridge the gap between the traditional knowledge and research practices

ORGANIC CHEMISTRY-I

CO 1. The Student should be learning the Aromaticity of aromatic, Antiaromatic and Non-aromatic systems. Then also learn benzenoid and Non benzenoid system.

CO 2. On effective conclusion of the way, the students should have a useful awareness of Stereochemistry, conformational analysis and three dimensional views of the compound it well use full for the unit.

CO 3. Proceeding actual assumption of the way, the students should have a useful awareness of conformational analysis and three dimensional views of the compound it well use full for the unit.

CO 4. On this paper effective end of the progress, the students should must a flexible understanding of reactive intermediates and their study of cationic, anionic, and free radical formation reaction also study in this unit.

CO 5. On prosperous close of the sequence, the students should have a handy acquaintance of Electrophilic, nucleophilic addition reaction and some important naming reaction also study in this unit.

INORGANIC CHEMISTRY-I

CO 1. To learn the selected crystal structures and to explain what kind of parameters that affects

CO 2. Understand the basic theories of crystal structure of a compound.

CO 3. Basic knowledge on acid and base concept.

CO 4. Fundamental theories describe bonding in coordination complexes.

CO 5. Understand the structure, stability and reactivity of coordination compounds.

PHYSICAL CHEMISTRY-I

CO1. The limitations of classical thermodynamics in the evaluation of macroscopic properties.

CO2. The various principles involved in group theory

CO3. The theories of catalytic activity

CO4. The principles and selection rules for IR and Raman spectroscopy.

CO5. The symmetry of hybrid orbitals.

SEMESTER-II ORGANIC CHEMISTRY-II

CO1: This unit explicates the plain theories of substitution Oxidation and reduction reactions in organic synthesis. In calculation the students will advantage information on reaction mechanism.

CO2: This paper explains the basic concepts of substitution reaction and Synthesis techniques of the active group. In addition the students will gain knowledge on reaction mechanism.

CO3: This paper explains the basic concepts of Elimination reaction and Synthesis techniques of sum elimination reactions. In addition the students will gain knowledge on reaction mechanism.

CO4: This red-top describes the elementary concepts of molecular rearrangements reaction in organic chemistry will be discussed. In count the students will advance understanding on reaction mechanism.

CO5: This broadside explains the basic concepts of s naming reaction and reagents in organic synthesis. In addition the students will gain knowledge on reaction mechanism and synthetic application.

INORGANIC CHEMISTRY-II

CO1: Basic concepts and functions of Bio-Inorganic complexes.

CO2: Understand the Mechanism of various biological reaction in Bio inorganic Chemistry

CO3: Know the mechanisms of Organic metallic compounds in Bio inorganic Complexes.

CO4: Basic concepts of bonding and catalysis in organic metallic compounds.

CO5: Understand the Concept of Organic metallic Compounds.

PHYSICAL CHEMISTRY-II

CO1: The use of chemical kinetics in understanding reaction mechanisms and to apply the theories and concepts of it for homogenous and heterogeneous catalysed reactions.

CO2: The quantum mechanical approach to the atomic and molecular electronic structure.

CO3: The required mathematics for solving quantum mechanical problems.

CO4: The limitations of quantum chemistry and classical thermodynamics in the evaluation of macroscopic properties.

CO5: The concepts of statistical thermodynamics for the study of equilibrium reactions and reaction rates.

SEMESTER-III ORGANIC CHEMISTRY-III

CO 1: On successful completion of the course the students should have learnt the basic principles of organic spectroscopy, calculate the number of molecular weight using Woodward - Fisher rules and functional group identification.

CO2: On positive conclusion of the way the students should have well-read the basic principles of organic spectroscopy, calculate the number of proton and carbon present in the compound identification techniques also study in the unit

CO3: On active completion of the progress the students should have Learn the mass spectrum and fragmentations techniques also study in the unit.

CO4: This unit explicates the plain theories of steroids hormones in organic synthesis. In calculation the students will advantage information on biosynthesis reaction mechanism.

CO5: This paper explicates the plain theories of alkaloids hormones in organic synthesis. In calculation the students will advantage information on biosynthesis reaction mechanism.

INORGANIC CHEMISTRY-III

CO 1: Know the Basic concepts of Solid State of Matter.

CO2: Know the theories of Semiconductor, Insulator and super conductors of Solids.

CO3: Understand the Concept of metal clusters in Coordination Compounds.

CO4: Acquire the fundamental knowledge in Nuclear Chemistry.

CO5: Know the Working of Nuclear reaction in Nuclear Chemistry.

PHYSICAL CHEMISTRY-III

CO 1: The behaviour of electrolytes in solution.

CO2: The structure of the electrode surface.

CO3: Differentiate electrode kinetics from others types kinetic studies.

CO4: The application of spectroscopy for the study and structural elucidate ion of molecules.

CO5: principles of mass, UV, IR, NMR, ESR, photo electron spectroscopy.

SEMESTER-IV ORGANIC CHEMISTRY -IV

CO 1: To learn various organic reactions and reagents used in them as tools applied in the art of organic synthesis in synthetic methodology.

CO2: To learn various organic reactions and reagents used in them as tools applied in the art of organic synthesis. To learn retro synthetic approach towards organic synthesis.

CO3: This unit clarifies the plain theories of three and four membered heterocyclic reactions in organic synthesis. Students will advantage information on reaction mechanism.

CO4: On this unit conclusion of the progress the students should have Absorb photochemical reactions also study in the course.

CO5: On this unit conclusion of the progress the students should have Absorb the pericyclic reactions of ring opening and ring close electrochemical and photochemical reactions also study in the course

APPLICATION OF SPECTRAL TECHNIQUES TO INORGANIC COMPOUNDS

CO 1: Know the basic concepts of various spectroscopies. (NMR, ESR, IR AND MOSSBAUER)

CO2: Understand the various Spectroscopic methods.

CO3: Ability to apply the basic principles of various spectroscopic, electro and thermo analytical methods to characterize the compounds.

CO4: Acquire skill to Interpret the spectra for Inorganic compounds

CO5: To get the knowledge and applications of various spectral techniques to inorganic compounds.

INSTRUMENTAL METHODS OF ANALYSIS

CO 1: The students will have the knowledge of various instrumentational Techniques.

CO2: The students to get the knowledge of mean, median, precision and accuracy in chemical analysis. CO3: The students to get their knowledge in absorption spectrometry, Flame photometry, Infra-red and Raman spectroscopy.

CO4: The students to get their knowledge in NMR, ESR and Mossbauer spectroscopy

CO5: To understand the synthesis of organic and inorganic compounds by irradiation, radiometric analysis and radiography.

B.Sc Chemistry

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development.

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately.

Program Specific Outcomes:

PSO1 To understand basic facts and concepts in chemistry. To apply the principles of chemistry.

PSO2 To appreciate the achievements in chemistry and to know the role of chemistry in nature and in society

PSO3 To familiarize with the emerging areas of chemistry and their applications in various spheres of chemical sciences and to apprise the students of its relevance in future studies.

PSO4 To develop skills in the proper handling of instruments and chemicals.

PSO5 To familiarize with the different processes used in industries and their applications. develop an eco-friendly attitude by creating a sense of environmental awareness.

PSO6 To be conversant with the applications of chemistry in day-to-day life.

Inorganic Chemistry- I

CO1 Enable the student to execute a research project.

CO2 Understand periodic properties of elements.

CO3 Compare the properties of S and P block elements.

CO4 Apply the principles of volumetry in laboratory.

CO5 Analyse the stability of different nuclei.

CO6 Acquire knowledge on the basic concept of acids and bases.

CO1 Understand the importance and the impact of quantum revolution in science.

CO2 Understand the theoretical frame work of quantum mechanics.

CO3 Solve the schrodinger equation for simple syetms.

CO4 Understand the quantum mechanical treatment of chemical bonding.

CO5 Inculcate curiosity about microscopic world.

PHYSICAL CHEMISTRY – I

CO1 Realise the characteristics of gaseous state and its thermodynamic aspects.

CO2 Correlate the concepts of classical and statistical thermodynamics.

CO3 Apply symmetry operations to categorize different molecules.

CO4 Enable to solve problems systematically.

CO1 Apply the concept of kinetics, catalysis and photochemistry to various chemical and physical processes.

CO2 Analyze the spectra of molecules.

CO3 Identify unknown molecules from spectral analysis.

CO4 To understand various phase transitions and its applications.

ORGANIC CHEMISTRY– I

CO1 Understand the basic concepts of reaction mechanism.

CO2 Understand the chemistry of hydrocarbon with their preparation and properties.

CO3 Analyse the mechanism of a chemical reaction.

CO4 Analyse the stability of different aromatic systems.

CO5 Analyse the physical and chemical properties of functionalized organic compounds.

CO6 Apply the concept of stereochemistry to different compounds.

CO1 Understand the basic structure and tests for carbohydrates.

CO2 Understand elementary idea about biomolecules such as lipids, steroids, hormones and vitamins.

CO3 Understand the importance and basic components of proteins and nucleic acids.

CO4 Understand the basic structure and applications of alkaloids and terpenes.

CO5 Distinguish different pericyclic reactions.

CO6 Elucidate the structure of simple organic compounds using spectral techniques.

CHEMISTRY PRACTICAL – I

CO1 Enable students to develop skills in quantitative analysis and preparing inorganic complexes.

CO2 Enable students to analyze potable water in their households.

CO3 Apply the principles behind quantitative analysis in laboratory.

CO4 Apply the principles of volumetric analysis in laboratory.

CO5 Enable students to develop skills in quantitative analysis and preparing inorganic complexes.

GENERAL CHEMISTRY

CO1 Identify important metals in biological systems.

CO2 Apply the theories of quantitative and qualitative analysis in laboratory.

CO3 Apply the theories of chemical bonding in structural determination.

CO4 Evaluate the constructive and destructive applications of nuclear reactions and identify the uses of radioactive isotopes.

ENVIRONMENTAL CHEMISTRY

CO1 Understand the basics and applications of polymer chemistry with the emphasis on 3R principle.

CO2 Evaluate the advantages and disadvantages of cleansing agents and cosmetics.

CO3 Understand the basic concepts on fuels.

CO4 Explain the functions of biomolecules, vitamins, enzymes, hormones and nucleic acid.

CO5 Awareness on food additives, food adulteration and emphasize the significance of local food produce.

CO6 Explain the uses of pesticides and fertilizers and their impacts on the environment.

CO7 Familiarize commonly used drugs in Kerala-benefits and its side effects.

M.Sc Botany

PO1 Attained profound Expertise in Discipline

PO2 Acquired Ability to function in multidisciplinary domains

PO3 Attained ability to exercise Research Intelligence in investigations and Innovations

PO4 Learnt Ethical Principles and be committed to Professional Ethics

PO5 Incorporated Self-directed and Life-long Learning PO6 Obtained Ability to maneuver in diverse contexts with Global Perspective

PO7 Attained Maturity to respond to one's calling

Program Specific Outcomes

PSO1 Differentiate plant groups according to their morphology, anatomy and genetics.

PSO2 Practice the methodology followed in plant protection, propagation and improvement.

PSO3 Understand the advanced concepts of physiology, biochemistry and molecular biology of plant and microbes.

PSO4 Employ problem solving and laboratory skills pertaining to biological techniques and apply strategies for environmental conservation.

PSO5 Adapt scientific methods in plant research and create entrepreneurship

SEMESTER – I

1. Phycology and Bryology

Students will understand the morphology and organization of the thallus and their role in medicine, industrial and food. Students will understand the interrelationship of algae, bryophytes.

2. Mycology, Lichenology Bacteriology, Virology and Plant Pathology

Students will understand the morphology and organization of the thallus and their role in industrial, medicine and food. Students will understand the interrelationship of mycology, lichenology, bacteriology, virology and plant pathology.

3. Pteridophytes, Gymnosperms and Paleo-Botany

After successfully completing this course, the student will be able to recognize morphological, anatomical and reproductive characteristics of extinct and extant Pteridophytes, Gymnosperms and Paleo-Botany. The student will understand the evolutionary history of plant kingdom.

SEMESTER – II

4. Anatomy and Embryology of Angiosperms

The students will be able to recognize the anatomical differences between monocotyledons and dicotyledons of roots, stems, leaves, bark and wood. In addition, they will clearly understand the seed-to-seed developmental aspects of angiosperms.

5. Cell and Molecular Biology

Students will gain knowledge about the basic and fundamental organization of life and genetic material and their applications in molecular aspects.

6. Genetics, Plant Breeding and Evolution

Students will know the principle of genetics value and the importance on improving the molecular genetics. On the successful completion of the course, the student will be able to: Comprehensive, detailed understanding of the basis of heredity. Understanding the role of genetic mechanisms in evolution. The ability to evaluate conclusions that are based on genetic data. Understanding the role of genetic technologies in industries related to biotechnology, pharmaceuticals, energy, and other fields.

SEMESTER – III

7. Morphology and Taxonomy of Angiosperms and Economic Botany

Upon completion of this course students are expected to be familiar with technical terms of angiosperm plants, acquire ability to identify species using floras utilizing the knowledge gained on diagnostic features of plant families and knowledge on economically important various plant resources.

8. Biotechnology and Genetic Engineering

Students are expected to be educated from the systematic training given in the different branches of applied biotechnology will enhance the confidence in students to take up entrepreneurial ventures in developing bio tagged products, and provide services in national and multinational industries dealing with bio utility and bio resource management.

9. Ecology and Conservation Biology

Students are expected to be familiar with components of the environment, major species composition, structure and functional ecology of terrestrial and aquatic ecosystems and conservation aspects.

SEMESTER- IV

10. Plant Physiology and Plant Biochemistry

Students will understand the (i) phenomena of carbohydrate synthesis in plants and use of the carbon to generate energy to maintain plant functions; and (ii) control of plant functions through growth regulators. (iii) phenomena of protein synthesis in plants and use of the nitrogen to generate energy to maintain plant function.

11. Research Methodology

Students will understand the basics of bioanalytical instruments, analysis of bioactive ingredients using conventional and advanced instruments, and analyze the data statistically and the ethical guidelines to be followed during experimental and research work.

B.Sc Botany

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

Program Specific Outcomes:

PSO1 Understand the principles of identification, classification and evolution of various plant groups according to their morphology, anatomy and palynology.

PSO2 Understand the principles life processes, biomolecules, and heredity.

PSO3 Evaluate biodiversity loss, and develop conservation strategies.

PSO4 Classify plants according to the principles of plant systematics, apply techniques of plant breeding, plant propagation and genetic engineering

SEMESTER - I

1. Phycology and Mycology

COURSE OUT COMES:

1. To learn about the general characters of algae
2. To impart knowledge on various major groups of algae
3. To understand the life history of various groups of algae
4. To differentiate the various groups of fungi
5. To know the knowledge of general distribution of fungi

SEMESTER -II**2. Microbiology, Lichens, Bryology and Plant Pathology****COURSE OUT COMES:**

1. To understand the diversity of microorganisms, their importance and basics of microscopes.
2. To know about bacteria and viruses and how they are classified.
3. To know about symbionts in botany.
4. To know about bryophytes, the non vascular plants.
5. To understand the concept of plant diseases and protective measures.

SEMESTER- III**3. Pteridology, Gymnosperms and Paleobotany****COURSE OUT COMES:**

1. To discuss the general Characteristic of pteridophytes
2. To differentiate the various genera in pteridophytes.
3. To learn the salient features and importance of gymnosperms
4. To acquire knowledge on fossils and fossilization
5. To know on various groups of fossil plants

SEMESTER- IV**4. Plant Cell Biology****COURSE OUT COMES:**

1. Compare and contrast animal and plant cells and be able to distinguish each type under the microscope.
2. Identify the following structures on the slides and explain the functions of plasma membrane, cytoplasm, nucleus, nucleolus, cell wall, and plastids
3. To gain knowledge structure and functions of chromosomes.
4. To knowledge of DNA structure and replication
5. To gathering knowledge of RNA functions and their properties.

SEMESTER -V

5. Anatomy and Embryology of Angiosperms

COURSE OUT COMES:

1. To learn the structure and function, types of simple tissues.
2. To have knowledge on complex tissues and stomata types
3. Gathering knowledge of nodal anatomy and internal structures of primary and secondary growth.
4. To know the male and female gametophytes
5. To explain the types of endosperm and development of embryo.

6. Morphology and Taxonomy of Angiosperms & Economic Botany

COURSE OUT COMES:

1. Graduates will easily identify common and economically important plants.
2. To knowledge about special features and economically important plants.
3. To acquire knowledge on significance of taxonomy and herbarium technique.
4. To provide information pertaining to fruits and seed characters.
5. To understand the key aspects of morphology.

7. Genetics, Plant Breeding, Evolution and Biostatistics

COURSE OUT COMES:

1. To apply basic principles of genetics and Mendel's inheritance.
2. To understand the recombination and chromosome theory of inheritance and sex Determination.
3. To explain the importance of gene concepts and gene expression in plant cell.
4. To state the improvement of crop plants and describe the basic principles of hybrid vigor.
5. To know the theory of evolution and biostatistics problems.

SEMESTER- VI

8. Plant Physiology and Plant Biochemistry

COURSE OUT COMES:

1. Understand the various steps involved in the water uptake, minerals nutrition and growth measurement in plants.
2. Gain knowledge in the various processes involved in the photosynthesis,

3. Impact knowledge in nitrogen metabolism and respiration.
4. Acquire knowledge on catabolic pathway of metabolites and properties of carbohydrates, protein and lipids.
5. Illustrate the mechanism of enzymes action and enzymatic kinetics.

10. Ecology, Phytogeography and Toxicology

COURSE OUT COMES:

1. To understand the aspects of biotic and abiotic factors.
2. To acquire knowledge on ecosystem.
3. To be familiarize with plant communities and ecological adaptations of plant.
4. To know about the hazards of pollution and the importance of environmental toxicants.
5. To gain an insight into the vegetation types and their importance.

B.Sc Zoology

PO1 Critical Thinking: Ability to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO2 Effective Communication: Ability to speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3 Effective Citizenship: Ability to demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO4 Environment and Sustainability: Ability to understand the issues of environmental contexts and sustainable development.

PO5 Ethical Living: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6 Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO7 Problem Solving and Analytical Skills: Ability to think rationally, analyze situations and solve problems adequately

PROGRAM SPECIFIC OUTCOMES:

PSO1 Understand the biological diversity and grades of complexity of various animal forms through their systematic classification and the process of organic evolution.

PSO2 Understand the roles of plants, animals and microbes in the sustainability of the environment and their interaction among themselves and deterioration of the environment due to anthropogenic activities.

PSO3 Understand the concepts and principles of biochemistry, immunology, physiology, ethology, evolution, and environmental biology endocrinology, developmental biology, cell biology, genetics, and entomology, molecular biology and microbiology and develop technical skills in biotechnology, bioinformatics and biostatistics.

PSO4 Perform laboratory procedures as per standard protocols in the areas of animal diversity, systematics, cell biology, genetics, biochemistry, molecular biology, microbiology, physiology, immunology, developmental biology, environmental biology, ethology, entomology evolution and science methodology.

SEMESTER I

Paper Code: CZO11 INVERTEBRATA

Course Outcome

- 1 To understand the principle of taxonomy
- 2 To learn the general characters, classification of Invertebrata and their phylum
- 3 To understand the morphology and their system of various groups of Invertebrates.
- 4 To study the economic importance of invertebrate
- 5 To study the affinities and adaptation of invertebrates

SEMESTER II

Paper Code: CZO21 CHORDATA

Course Outcome

- 1 On completion of the unit the students will be able to describe the salient features of phylum Chordata.
- 2 After completion of this unit the students will be able to observe the diversity in class Pisces and their classification.

3 It provides the way of identifying different orders of Amphibians.

4 Student will able to list out of the unique characters of Aves.

5 To know the classification of class mammalian up to orders.

Paper Code: CZO31 CELL AND MOLECULAR BIOLOGY

Course Outcome: After completion of the course the student will..

CO 1: Acquire knowledge about the history basic techniques in cytology and molecular biology.

CO 2: Get an in depth knowledge about the cell structure.

CO 3: Learn about the cell organelles and their functions.

CO 4: Understand the cell cycle and learn about cancer biology.

CO 5: Learn about the nucleic acid and protein synthesis.

SKILL BASED SUBJECT-1 PAPER -1

Paper Code: CSZO32A VERMICULTURE

Course Outcome: After completion of the course the student will ..

CO 1: Learn about the characteristics and biology of earthworm.

CO 2: Get an in depth knowledge about the culture techniques.

CO 3: Understand about the methods of composting.

CO 4: Learn the factors for proper maintenance of the vermicomposting beds.

CO 5: Learn about the application and marketing of the compost.

NON-MAJOR ELECTIVE

PAPER -1

Paper Code: CNZO33A PUBLIC HEALTH AND HYGINE

Course Out Comes (five outcomes for each units should be mentioned)

1. After studied unit-1, the student will be able to understand Scope of Public Health and Hygiene - Nutrition and health - classification of foods.

2. After studied unit-2, the student will be able to understand Environment and Health Hazards
3. After studied unit-3, the student will be able to understand Communicable diseases and their control measures
4. After studied unit-4, To acquire the knowledge about Non - communicable diseases and their preventive measures
5. After studied unit-5, the student to acquire the knowledge Health Education and Health programmes in India and WHO programmes

SEMESTER IV

Core Paper - 4
Paper Code: CZO41 GENETICS AND BIOTECHNOLOGY

Course Out Comes (five outcomes for each units should be mentioned)

- 1. After studied unit-1, the student will be able to** study effectively, and enable to understand the difference between dominance and epistasis, to enable the students understand types of blood groups in humans.
- 2. After studied unit-2,** the student will be able to describe gene linkage and explain the genetic anomalies caused by changes in chromosome number and structure. To understand the fine structure of genes and gene regulations.
- 3. After studied unit-3, the student will be able explain DNA** mutation and repair mechanisms and different kinds of mutagens and kinds of mutagens. To understand the animal breeding techniques, population structure and genetic polymorphisms.
- 4. After studied unit-4, the student will be able to** determine the applicability of difference kinds of cloning vectors, techniques of genetic engineering, illustrating the use of genomic libraries in gene detection and characterization.
- 5. After studied unit-5, the student will be able to** analyse the function of applied genetic research in technology, nature and society, understanding the applications of rDNA technology, and identifying the ethical issues related to gene manipulation.

SKILL BASED SUBJECT

PAPER - 2

(to choose one out of 2)

Paper Code: CSZO42A

A. SERICULTURE

B. Course Outcome

- C. The Students will have a Knowledge about the economic importance and silkworm biology
- D. The Students will have a Knowledge about the moriculture
- E. The Students will have a Knowledge about the silkworm reproduction and genetics
- F. The Students will have a Knowledge about the pathogenic diseases and pest
- G. The Students will have a Knowledge about the silkworm rearing and silk reeling

SKILL BASED SUBJECT

PAPER - 2

Paper Code: CSZO42B APICULTURE

Course Outcome

- 1 The students will be able to understand the Basics of beekeeping
- 2 The students will be able to understand the role of Bee hive
- 3 The students will be able to understand the Bee enemies, diseases, pesticide poisoning
- 4 The students will be able to understand the Products of bee keeping
- 5 The students will be able to understand the Economics and Marketing

NON-MAJOR ELECTIVE

PAPER – 2

Paper Code: CNZO43B

A. AQUARIUM FISH KEEPING

Outcomes

- 1. The student will be able to understand the basic knowledge of Aquarium fish keeping.
- 2 .The students will be able to know how to maintain an aquarium.
- 3 .The student will be able get knowledge about different varieties of ornamental fish.
- 4. The student will be able to acquire knowledge about disease management in aquarium fish culture.
- 5. The students will acquire knowledge about the feeding techniques of aquarium fishes.

THIRD YEAR

SEMESTER V

Core Paper - 5

Paper Code: CZO51 BIOSTATISTICS AND BIOINFORMATICS

Course Outcome:

On completion of the course the students will able

1. To Define Biostatistics and list out the Scopes of Biostatistics
2. To determine the value of mean, the median, the mode of grouped data, identifying the relationship among the three measures of central tendency for systematical and skewed distributions, advantages and disadvantages of the three measures.
3. They could be able to do File Operations New, Save & Print - Editing: Cut, copy, Paste, Find and Replace - Insert: Page numbers and Pictures - Format: Font, Bullet & Numbering etc.
- 4 To get introduced to the basic concepts of Bioinformatics
5. They could able to outline the application areas for multiple sequence Pair wise sequence Alignment

Paper Code: CZO52 DEVELOPMENTAL BIOLOGY & IMMUNOLOGY

Course Out Comes (five outcomes for each units should be mentioned)

1. The student will be able to study ontogenesis, the development of animals including parthenogenesis.
2. The student will be able to study embryonic adaptations, human reproduction and reproductive technology in man.
3. The student will be able to study the process of immune response and mechanism.
4. The student will be able to understand the advances in Immunology.
5. The student will be able to understand the role of development in defining biological process.

Paper Code: CZO53 ANIMAL PHYSIOLOGY

Course Out Comes

1. After studied unit-1, the student will be able to understand macromolecules of food and their importance, understand the digestion and metabolism.
2. After studied unit-2, the student will be able to understand important and mechanism-respiration,
3. After studied unit-3, the student will be able to understand Excretion and Osmoionoregulation
4. After studied unit-4, To acquire the knowledge about nervous system muscles and muscle contraction
5. After studied unit-5, the student to acquire the knowledge about Receptors Endocrine system and disorders,

INTERNAL ELECTIVE

PAPER – 1

Paper Code: CEZO 54B HUMAN ENDOCRINOLOGY

Course Outcome: After completion of the course the student will ..

CO 1: Learn about the structure and function of Pituitary.

CO 2: Understand the biological actions of the thyroid and parathyroid.

CO 3: Know about the emergency hormones.

CO 4: Learn the Mechanism of action and regulation of pancreatic hormones.

CO 5: Understand about the function of the male and female reproductive hormones.

SKILL BASED SUBJECT

PAPER -3

Paper Code: CEZO55B VEGETABLE MEAT CULTURE

Outcomes

- 1) Students will understand the principles of mushroom cultivation,
- 2) Acquire the practical knowledge to grow several species of fungi,
- 3) will have the confidence to approach the mushroom industry for potential employment opportunities.
- 4) The Student will be able to procure knowledge about the nutritive values of mushroom.
- 5) The student will be able understand the medicinal values of mushrooms

SEMESTER VI

Core paper - 8

Paper Code: CZO61 ENVIRONMENTAL BIOLOGY

Course Out Comes (five outcomes for each units should be mentioned)

1. After studied unit-1, the student will be able to understand Scope, concept, Branches in ecology and Environmental factors (soil, light, temperature, water and air).
2. After studied unit-2, the student will be able to understand fundamental units of ecosystem, Tropic levels of ecosystem and Food chain.
3. After studied unit-3, the student will be able to understand Bio geochemical cycles and importance of inter relationship between every organism and environment
4. After studied unit-4, to acquire the knowledge about population and community ecology, ecological succession, aims of wild life conservation and Natural resources.
5. After studied unit-5, the student to acquire the knowledge environmental hazards, Environmental ethics and laws.

Paper Code: CZO62 ECONOMIC ZOOLOGY

Course Outcome

- 1) Understanding the role of worm farming in modern farming, potential of vermicompost, maintaining health of the soil, economic importance of Vermiculture and role of Vermiculture in protecting the environment.
- 2) They could be able to understand Techniques of induced breeding, Commercial culture of catla & cat fish
- 3) They could understand about area of poultry production including nutrition, health welfare and product quality
- 4) To provide basic input to students about production, planning and management of dairy farms Milch breeds. Draught breeds, Dual purpose breeds and New Cross breeds of Cows and Buffaloes in India.
- 5) The students could be able to learn the Future strategies for Livestock Development

Internal Elective

Paper -2

(to choose one out of 2)

Paper Code: CEZO63A EVOLUTION

Course Outcome

- 1 The students will understand the basic concepts of evolution
- 2 The students will understand various theories of evolution
- 3 The students will have a comprehensive knowledge regarding various Sources of Variations and their role in evolution
- 4 The students will have an adequate knowledge about Micro-evolutionary changes, Speciation and Adaptive Radiation.

5 The students will have a descriptive knowledge regarding Origin and Evolution of Man.

Internal Elective

Paper -2

(to choose one out of 2)

Paper Code: CEZO63B MICROBIOLOGY

Course Outcome

- 1 The students will understand the importance of Microorganisms.
- 2 The students will understand the Technology innovations of Microbial genetics and its Application.
- 3 The students will understand the general morphology of micro organism
- 4 The students will understand the epidemiology of various infectious diseases
- 5 The students will understand the role of micro organisms in Agriculture, Industry and environment

INTERNAL ELECTIVE

Paper -3

Paper Code: CEZO64B APPLIED ENTOMOLOGY

Course Out Comes

1. After studied unit-1, the student will be able to understand the insect morphology and types of pest.

2. After studied unit-2, the student will be able to understand insect species causing damage to the crops in the field as well as under storage condition and the effective control measure against them.
3. After studied unit-3, the student will be able to understand the awareness of pest in relation to public health-Houseflies diseases and their control measures,
4. After studied unit-4, To acquire the knowledge about the effective control measure against insect pest.
5. After studied unit-5, the student to acquire the knowledge Recent trends in pest control and Integrated pest management, its importance & applications

SKILL BASED SUBJECT

Paper - 4 Paper Code: CSZO65B INDUSTRIAL FISHERY MANAGEMENT

Outcomes:

1. The students will get the basic information about the scope of aquacultures in India.
2. The student will acquire knowledge about fish farming.
3. The students will acquire knowledge about various culture techniques.
4. The students will acquire knowledge about feed formulations
5. The students will acquire knowledge about disease management in fish farming.

DEPARTMENT OF TAMIL

PROGRAMME : FOUNDATION TAMIL, NON – MAJOR, B.A. MAJOR TAMIL

Programme Outcomes

PO – 1. Modern literature: (Poetry - Prose - Non - detailed) These subjects are helping students to become a creative writers, essay writers, orators, actors, stage performers etc., to secure good fame and name in the society.

PO – 2. Grammar: (nannool - yaapu - thandi - puraporul venbmaalai - nambi agapporul - dravida mozhigalin oppilakanam) The grammar subject is playing key role in the language syllabus. This subject is helping them to learn the language fluently to read write and speak. Tamil grammar is most important to sustain the standard of the language.

PO _ 3. Inscription and archaeology: These are the allied subjects & Non major subjects which is closely related to the Tamil language and literature since from the ancient period. These subjects brings knowledge on the history and growth of Tamil language and literature as well as the culture of the Tamils.

Programme specific Outcomes

Pso – 1. Journalism and mass communication: This subject helps students to get job opportunities in the competitive society. Today mass media and communication is very familiar to accommodate skilled persons to run the departments well. In fact, Tamil learned graduates were giving first priority.

PsO – 2. Tourism management: This subject also helps students to learn more about tourism places and its importance. This subject leads them to become a self employed person in various directions.

PsO – 3. Folklore - feminism: These subjects also teaches the students about trends of the modern social changes and make them aware to build this equilibrium in the society.

DEPARTMENT OF TAMIL STUDIES

Programme Objectives	Title of the Programme: M.A Tamil	சங்ககாலம் முதல் தற்காலம் வரையிலானத் தமிழ் இலக்கியப் பரப்பைக் கற்பித்தல். இலக்கியத்தைப் பண்பாட்டின் உற்பத்திப் பொருளாக அறியச் செய்தல். இலக்கியத்திற்கும் சமூகத்திற்குமிடையிலான உறவுகளைப் புரிந்து கொண்டு கற்றலும் இவ்வடிப்படையில் இலக்கியத்தைக் கற்பிக்கும் திறனைப் பெறச் செய்யலும்.
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Programme Specific Outcome	<ul style="list-style-type: none">• தமிழிலக்கியப் பரப்பு குறித்த அறிவைப் பெற்றிருத்தல். இலக்கியத்தைச் சமூகப் பண்பாட்டுப் பிற்புலத்தில் நுணுகிக்காணும் திறன் பெற்றிருத்தல். தொடர்ந்து இலக்கியப் பனுவல்களை வாசிக்கும் ஆர்வம் பெற்றிருத்தல்.
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Course Outcome

Sl.No	Title of Subject / Course	Course Outcome
1	எழுத்திலக்கணம்	எழுத்திலக்கணத்தை மொழியியல் அடிப்படையில் புரிந்து கொள்ளும் ஆற்றல் பெற்றிருத்தல்.
2	இலக்கியவியல் அடிப்படைகள்	இலக்கியம் குறித்த சொல்லாடல்களை நிகழ்த்தும் திறன் பெற்றிருத்தல்.
3	தமிழ் உரைநடை இலக்கியம் -1 (புனைகதைகள்)	தமிழ் புனைகதைகளையும் நாடகங்களையும் நுணுக்கமாக அறிந்து விவாதிக்கும் திறன் பெற்றிருத்தல்.
4	கணிணிஅடிப்படைகள்	கணினியை பயன்படுத்தும் அடிப்படை அறிவைப் பெற்றிருத்தல்.
5	விருப்பத்தாள் (அ) தமிழ் ஊடகவியல் அறிமுகம்	ஊடகங்கள் அனைத்தின் ஆற்றலையும் வசூலிக்கும் முறைகளையும் அறிந்திருத்தல்.
	(ஆ) நாட்டார்வழக்காற்றியல் அடிப்படைகள்	நமது மண் சார்ந்த பண்பாட்டு மரபுகளைப் புரிந்து கொள்பவராகவும் அவற்றை மதிப்பவராகவும் உருப்பெறுவர்.
6	சொல்லிலக்கணம்	சொல்லிலக்க விதிகளை மொழியியல் அடிப்படையில் புரிந்து கொள்ளும் திறன் பெற்றிருத்தல்.
7	தமிழ் உரைநடை இலக்கியம் -2	தமிழ் உரைநடையின் போக்குகளை இனம் தற்காலப் பிள்ளைகளின் கண்டு

		விவாதிக்கும் ஆற்றல் பெற்றிருப்பர்.
8	இலக்கியத்திறனாய்வு அடிப்படைகள்	தேவைகளை திறனாய்வு வியம் பயன்களையும் பனுவலைத் திறனாய்வு அறிந்திருத்தலும் இலக்கிய திறனாய்வு செய்யும் திறன் பெற்றிருத்தல்.
9	விருப்பத்தாள் (அ) மொழிபெயர்ப்பியல்	மொழி பெயர்ப்புக் குறித்த நுட்பங்களை அறிந்தவராக மொழி பெயர்ப்புத் திறன் பெற்றிருத்தல்.
	(ஆ) நாட்டார் பண்பாட்டு மரபுகள்	நாட்டார் மரபுகளின் பொருண்மையையும் அவை சமூக பண்பாட்டு வாழ்வியலோடு கொண்டுள்ள தொடர்புகளையும் புரிந்து கொள்ளும் ஆற்றல் பெற்றிருத்தல்.
10	கணினித் தமிழும் பதிப்புக் கலையும்	கணினி தொழில் நுட்பத்தைப் பயன்படுத்தி தமிழில் நூலாக்கம் செய்யும் திறன் பெற்றிருத்தல்.
11	பிறத்துறைத்தாள் பயன்பாட்டுத்தமிழ்	தமிழை தொடர்பு மொழியாகப் பயன்படுத்தி கருத்தாடல் செய்யும் திறன் பெற்றிருத்தல்.
12	பொருளிலக்கணம்	பொருளிலக்கணத்தின் இன்றியமையாமையை உணர்ந்து தமிழ் மரபு வழி கவிதையின் நுட்பங்களை அறிந்து விளக்கும் திறன் பெற்றிருத்தல்.
13	தமிழ் கவிதை இலக்கியம் - 1(மரபுக்கவிதை)	தமிழ்க் கவிதையின் வளர்ச்சிப் போக்கை கவிதையியல் அடிப்படையில் அறிந்தவராக இருத்தல்.
14	தமிழ் நாடக இலக்கியம்	இலக்கியத் தமிழ் நாடகத்தின் அரங்க மற்றும் பனுவல் பரிமாணங்களை உணர்ந்தவராக இருத்தல்.
15	திட்ட ஏடு	கட்டு அல்லது விவாதித்து ரை ஆய்வுரையை எழுதும் திறன் பெற்றிருத்தல்.
16	விருப்பத்தாள் (அ) தொல்லியல்	ஆவணங் தொல்லியல் சார்ந்த கள் ஆய்வுகளுக்கும் எவ்வளவு இன்றியமையாத அறிவுப்பரப்பிற்கும் வு வை என்பதை அறிந்தவராய் இருத்தல்.

	(ஆ) பண்பாட்டு மானிடவியல்	இலக்கிய ஆய்வுகளுக்கு பல்புலம் சார்ந்த அறிவு இன்றியமையாதது என்பதை அறிந்தவராய் இருத்தல்.
17	பிறத்துறைத்தாள் தமிழ்ப்பண்பாட்டு இயக்கங்கள்	இயக்கங்களுக்கு உறவுகம் இலக்கியங்களுக்குமான அறிந்தவராதல்.
18	யாப்பு - அணியிலக்கணம்	செய்யுள் உறுப்புக்கள் குறித்த அடிப்படை அறிவுடன் செய்யுளாக்கம் எவ்வாறு நிகழ்கிறது என்பதைக் குறித்த தெளிவு பெற்றிருத்தல்.
19	தமிழ் கவிதை இலக்கியம் - 2(சமகாலக்கவிதை)	சமகால தமிழ்க்கவிதையின் போக்குகளையும் நிகழ்ந்துவரும் மாற்றங்களையும் அறிந்தவராக இருத்தல்.
20	உலகத்தமிழ் இலக்கியம்	தமிழகத்திற்கு வெளியிலிருந்தும் தமிழிலக்கியம் குவ என்பதை அறிந்தவராகவும் படைக்கப்படுகிறது என்பதை அறிந்தவராகவும் எல்லைகளைத்தாண்டி இலக்கியம் வாழ்கிறது என்ற புரிதலை உடையவராக இருத்தல்.
21	ஓப்பிலக்கியம்	இலக்கியப்பனுவல்களை ஒப்பிட்டு நோக்குவதற்கான திறனைப் பெற்றிருத்தல்.
22	தமிழ் இணையம்	இணையத்தின் வழியாக தமிழும் இலக்கியமும் எவ்வாறு எடுத்துச் செல்லப்படுகிறது என்பதை அறிந்தவராக இருத்தல்.
23	விருப்பத்தாள் (அ) தமிழக வரலாறும் பண்பாடும்	தமிழக வரலாற்றை சமூகம், பண்பாடு, அரசியல் ஆகிய நிலைகளில் தெளிவுடையவராக இருத்தல்.
	(ஆ) தமிழிலக்கிய மானிடவியல்	இலக்கியத்தை மானிடவியல் அறிவைக் கொண்டு திறனாய்வு செய்யும் திறன் பெற்றிருத்தல்.

