



KHADIR MOHIDEEN COLLEGE,

ADIRAMPATTINAM – 614 701

DEPARTMENT OF ARABIC

B.A. Arabic (Un aided)

Programs offered

PROGRAMME OUTCOMES:

- Get exposed to grammatical patterns and usages in Arabic.
- Improve skills to speak and write Arabic accurately.
- Enhance skills to analyze functions of language in different contexts
Develop the advancement to higher education.
- Beware on distinct features of Classical and Modern Arabic Literature.

SPECIFIC PROGRAM OUTCOMES:

- Demonstrate an effective understanding of linguistic principles required to analyze Arabic.
- Apply effectively and appropriately Arabic language skills in a professional context.
- The ability to research cultural phenomena.
- Translate basic language structures from Arabic to English and vice versa.
- Appreciate linguistic, literary and cultural concept.

S.No	Name of the Course	Subject Code	Course outcomes
1/1	LANGUAGE COURSE	22LCA1	Learning Arabic. (Ism, fi'f, harf, word formation). Through this, Quran, Hadith and other Arabic books can be accessed and understood.
1/2	ENGLISH LANGUAGE COURSE	16ELCE1	Regarding English language learning.
1/3	GRAMMAR I	222ACCAR1	Learning Arabic. (Ism, fi'f, harf, word formation). Also by doing text structure exercises called "Tamreen" you can access the meaning of Quran, Hadith and other Arabic books.
1/4	ARABIC MORPHOLOGY	22ACCAR2	Learning Arabic. It will explain many types of VERB, which are very important in sentence



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			structure. Through this, Quran, Hadith and other Arabic books can be accessed and understood.
1/5	HISTORY OF PROPHET I	22AFACAR1	The biographies of the Messengers known as Prophets will be explained briefly and in simple Arabic style. Through this one can learn Arabic language and history of Prophets.
1/6	VALUE EDUCATION	22UGVED	It teaches many good things like morality, culture, civility, giving up, caring, humanity to be followed in personal life and social life.
2/1	ENGLISH LANGUAGE COURSE	22ELGE2	
2/2	GRAMMAR II	22ACCAR3	Identify the various types of verbs. Explain the ending changes in verbs in a simple manner. Construct the other forms of verbs. Analyze the plural words and its roots. Derive the verbs with moods of imperfect tense
2/3	APPLIED GRAMMAR II	22ACCAR4	Explain the creation of Adam (Pbuh) and its purpose. Discuss the story of Nooh (Pbuh). Examine the causes for the flood during Nooh (Pbuh). Interpret the transgression of nation of Aad. Summarize the history of Saalih (Pbuh) and his nation.
2/4	HISTORY OF PROPHETS II	22AFACAR2	Learning Arabic. It will explain many types of VERB, which are very important in sentence structure. Through this, Quran, Hadith and other Arabic books can be



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			accessed and understood.
2/5	NON-MAJOR ELECTIVE I (Sirappu Tamil)	22ASACAR1	The biographies of the Messengers known as Prophets will be explained briefly and in simple Arabic style. Through this one can learn Arabic language and history of Prophets.
2/6	PROFESSIONAL ENGLISH	22LCRST1	It teaches many good things like morality, culture, civility, giving up, caring, humanity to be followed in personal life and social life.
2/7	Language Course II	22LCA2	
4/1	ENGLISH LANGUAGE COURSE	23ELCE4	
4/2	GRAMMAR IV	22ACAR7	Analyze the Nominal Sentences in Various aspects Evaluate the different types of verbs with pronouns Appraise the rules of Exceptional



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			<p>particles and Tameez</p> <p>Identify the kinds of words which are prohibited to apply vowels</p> <p>Illustrate the conjunctions particles and interrogative particles</p>
4/3	CLASSICAL PROSE I	22ACCAR8	<p>Appraise the Manners discussed in the Surah Luqman.</p> <p>Develop the Heritage of Islam Discuss the Miracles of Quran</p> <p>Analyze How the Quran influences the society</p> <p>Discuss about the Islamic Traditions</p>
4/4	CLASSICAL ARABIC LITERATURE	22ASACAR2	<p>Review the tribes and divisions of the Arabs.</p> <p>Estimate the literature of the Pre-Islamic periods of Arabs.</p> <p>Discuss about the Knowledge of Pre-Islamic Poets to develop their Language & Literature □</p> <p>Demonstrate the Knowledge of Ummayyad Period.</p> <p>Appraise the concept of Literature developed in Abbassid Period.</p>
5/1	GRAMMAR V	22ACCAR9	<p>Assess the various rules related to Arabic Grammar.</p> <p>Distinguish between the different types of wav.</p> <p>Demonstrate the rules of Isthifhaam in Arabic.</p> <p>Discuss about the Badhl and its rules.</p> <p>Appraise the sentences as studied in Advanced level.</p>
5/2	CLASSICAL PROSE II	22ACCAR10	<p>Demonstrate an ability to read and understand a variety of classical literary texts in the target language.</p> <p>Express the Knowledge of inflections, grammatical constructions and vocabulary items found on the average page of a classical literary text.</p> <p>Differentiate between the styles of authors in the major genres of prose and poetry.</p> <p>Organize to conduct research on classical subjects by using different reference works and sources in book form and on the Internet.</p> <p>Practice the skill of writing in the Arabic language.</p>



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5/3	CLASSICAL POETRY	22ACCAR11	<p>Examine the logic poetry.</p> <p>Explain the contributions of Imam Busuri to the Arabic Literature.</p> <p>Investigate the structure, usages of words in praising of prophet Mohamed (sal).</p> <p>Compare the style of writings of different poets with Imam Busiri.</p> <p>Evaluate the achievements of Arabic poets.</p>
5/4	RHETORIC I	22ACCAR12	<p>Define Balaga (Rhetoric) in Arabic language.</p> <p>Assess the classifications of Arabic Rhetoric and its impact in Arabic literature.</p> <p>Describe the special features of Ilm Al Bayan.</p> <p>Illustrate the various topics in Balaga with suitable examples.</p> <p>Explain similies, metaphors and other topics in Arabic Rhetoric.</p>
5/5	COMMERCIAL ARABIC	22AMBEAR2	<p>Compose various types of letters for official purpose.</p> <p>Construct letters to banks and insurance companies.</p> <p>Formulate job applications and leave letters.</p> <p>Evaluate the various kinds of advertisements.</p>
5/6	TAJVEEDHUL QURAN	22ASBEAR2	<p>Apply the rules of Idgamm during the recitation of Holy Quran.</p> <p>Demonstrate the Rules of Meem Sakin and Rules of Madd.</p> <p>Practice the rules of Waqf and Rules of Noon Al Qutni.</p> <p>Interpret the meanings of Surah Ad Dhuha to Al Asr.</p> <p>Illustrate the meanings of last few chapters of Holy Quran.</p> <p>Prepare tenders for auction and authorization letters.</p>
5/7	SOFTSKILL DEVELOPEMENT	22UGSDC	<p>Recognize the techniques and skills of communication.</p> <p>Apply the conversational skills in important places.</p> <p>Demonstrate the Arabic terminologies according to the situations.</p> <p>Practice the important terms required during travel.</p> <p>Dramatize the booking of an accommodation in a hotel</p>



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6/1	MODERN PROSE	18ACCAR13	<p>Examine the literary genres of the modern prose.</p> <p>Analyze the modes of the modern prose.</p> <p>Discuss the situations of Modern writers' period.</p> <p>Differentiate between modern prose and classical prose.</p> <p>Evaluate the writing style of Modern Writers.</p>
6/2	RHETORIC II	18ACCAR15	<p>Demonstrate the objectives of Khabar and its various types.</p> <p>Appraise the articles of Istifhaam and its different meanings.</p> <p>Analyze the places of Fasl and Wasl in detail.</p> <p>Assess the various aspects of Ilm Al Badee'.</p> <p>Recognize the importance of Ilm Al Badee'.</p>
6/3	MODERN POETRY	18ACCAR14	<p>Describe the early changes that occurred in modern poetry ranging from subject to style of □ Presentation.</p> <p>Explain the influence of Modern Arabic Poetry.</p> <p>Differentiate between the themes, language usage, and style of writing from the beginning of modern Arabic poetry to the current era.</p> <p>Assess the socio-cultural dimensions, thoughts, and concepts in modern Arabic poetry □ Appraise the performance of modern Arabic poets and poetry.</p>
6/4	ESSAYS IN ARABIC	18AMBEAR2	<p>Construct essays in Arabic on various topics.</p> <p>Illustrate the different vocabularies in Arabic.</p> <p>Apply the new terminologies in the Arabic essays.</p> <p>Demonstrate the language skills and communication skills in Arabic.</p> <p>Evaluate the essays written in Arabic on various aspects.</p>
6/5	TRANSLATIONS SKILLS IN ARABIC	18AMBEAR3	<p>Express their opinions in Arabic Sentences</p> <p>Translate the Arabic Sentences into English</p>



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			List out and Conjugate Arabic Verbs Apply the Translation Theories and Practices Apply the translation theories in written and verbal communication Analyze the current translation methods with the previous methods
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DEPARTMENT OF BOTANY

Programmes offered:

➤ B.Sc. Botany (Unaided)

Programme Outcomes:

- ❖ Critical Thinking: Apply the knowledge of biology to make scientific queries and enhance the comprehension potential.
- ❖ Effective Communication: Successful transfer of scientific knowledge both orally and in writing.
- ❖ Social Interaction: Function as an individual, as a member or a leader to perform a task in class room situation or during field study.
- ❖ Ethics: Convey and practice social, environmental and biological ethics.
- ❖ Environment and Sustainability: Insist the significance of conserving a clean environment for perpetuation and sustainable development.
- ❖ Self-directed and Life-long Learning: study incessantly by self to cope with growing competition for higher studies and employment.

Programme Specific Outcomes:

- ❖ Educate students in and around Tiruchirappalli, a prime area of Cauvery Delta, about plant science.
- ❖ Inculcate strong fundamentals on modern and classical aspects of Botany.
- ❖ Build life skills in Edible mushroom cultivation, Biofertilizer production, Greenhouse maintenance and Seed technology through value-added courses.
- ❖ Create platform for higher studies in Botany.



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Course Outcomes:

SL. No	Sub Code	Name of The Course	Course outcome
1.	22SCCBO1	Algae, Fungi, Lichens and Bryophytes	<p>Relate the morphology structure of Algae, Fungi, bryophytes and Lichens.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Apply the practical knowledge to understanding the diversity of plant forms. <input type="checkbox"/> Examine the importance of structural diversity in the evolution of plant forms. <input type="checkbox"/> State the ecological and economic importance of Algae, Fungi, lichen and bryophytes. <input type="checkbox"/> Compare the structural organization of gametophytes and sporophytes in different classes of bryophytes.
2.	22SCACBO1	Allied Botany 1	<p>Illustrating the features of plant group.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Get knowledge in plant groups and their features <input type="checkbox"/> Categorize organizational characters and reproductive features of plant groups <input type="checkbox"/> Examine life cycles of different plant groups <input type="checkbox"/> Record understanding on the anatomy of plants <input type="checkbox"/> Apply the fundamental knowledge on the embryology and its applications.
2.	22SCCBO1P	Algae, Fungi, Lichens and Bryophytes (P)	<p>Learn about the structure, methods and reproduction of Algae</p> <ul style="list-style-type: none"> <input type="checkbox"/> Know about the economic importance of algae, fungi and lichens. <input type="checkbox"/> Microscopic observation and identification of algae, fungi, lichens and bryophytes. <input type="checkbox"/> Know about the structure, life history and Economic importance of Gymnosperms. <input type="checkbox"/> Make use of practical knowledge to comprehend the variety of plant types
3.	22SCCBO2	Microbiology, Plant Pathology and Plant Protection	<p>Understand the structure, reproduction, culture and economic importance of bacteria</p> <ul style="list-style-type: none"> <input type="checkbox"/> Understand and the structure, reproduction, culture and economic importance of virus <input type="checkbox"/> Explain the causes of different plant diseases <input type="checkbox"/> Recognize different plant pathogens <input type="checkbox"/> Explain different plant protection methods.
4.	22SCCBO2P	Core-II (P) Microbiology, Plant Pathology and Plant Protection (P)	<p>Study about the symptoms caused by viruses, transmission, assay of viruses, physical properties and purification.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Detailed study of symptoms of important diseases of above mentioned crops.



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			<ul style="list-style-type: none"> <input type="checkbox"/> Collection and dry preservation of diseased specimens of important crops. <input type="checkbox"/> Microscopic study of important pathogens. <input type="checkbox"/> Acquaintance with formulation of different fungicides and plant protection appliances.
	22SCACBO1P	Allied-II (P) Botany(P)	<p>Illustrating the features of plant group.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Get knowledge in plant groups and their features <input type="checkbox"/> Categorize organizational characters and reproductive features of plant groups <input type="checkbox"/> Examine life cycles of different plant groups <input type="checkbox"/> Record understanding on the anatomy of plants <input type="checkbox"/> Apply the fundamental knowledge on the embryology and its applications <p>Interpret plants based on the features on and off the field.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Contrast the characters of some dicot and monocot families. <input type="checkbox"/> Measure the concepts of plant functions. <input type="checkbox"/> Recognize an insight on Ecology of plants <input type="checkbox"/> Appraise the fundamental knowledge on plant biotechnology and its applications
	22SCACBO2	Zoology –II	<p>Interpret plants based on the features on and off the field.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Contrast the characters of some dicot and monocot families. <input type="checkbox"/> Measure the concepts of plant functions. <input type="checkbox"/> Recognize an insight on Ecology of plants <input type="checkbox"/> Appraise the fundamental knowledge on plant biotechnology and its applications
5.	22SCCBO3	Bryophytes, Pteridophytes, Gymnosperms and Paleobotany.	<p>Compare the classification of pteridophytes.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Measure the evolution of sporophytes, heterospory and seed habit and stelar evolution of pteridophytes. <input type="checkbox"/> Understand about gymnosperms their classification. <input type="checkbox"/> Illustrate the geological time scale and carbon dating. <input type="checkbox"/> Rate the distribution and reconstructed structure of fossils
6.	22SCCBO3P	Bryophytes, Pteridophytes, Gymnosperms and Paleobotany.(p)	<p>Learn about the general characters and classification, stelar evolution in Pteridophytes, heterospory and origin of seed habit.</p>



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			<ul style="list-style-type: none"> <input type="checkbox"/> Know about the structure, life history and Economic importance of Gymnosperms. <input type="checkbox"/> Training students to prepare micropreparation and showing permanent slides/photographs of Rhynia, Lepidodendron etc. <input type="checkbox"/> It provides a thorough knowledge about the diversity, structural organization and reproduction of Pteridophytes and Gymnosperms. <input type="checkbox"/> Gain the knowledge on fossils.
7.	22SCCBO4	Plant Anatomy and Embryology	<p>Inspect process of compatibility involved in plant reproduction.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Comply importance and tissues involved in secondary growth of Dicot and Monocot. <input type="checkbox"/> State the types of plant growth and compare their structure, function and its process of luxuriant pant growth. <input type="checkbox"/> Demonstrate anomalous Secondary growth in dicot and Monocot. <input type="checkbox"/> Examine fertilization, types of Endosperm, dicot embryo, Polyembryony, Parthenocarpy and Apomixis.
8.	22SCCBO4P	Plant Anatomy and Embryology (P)	<p>Understand the scope and importance of Anatomy and Embryology.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Understand the normal and anomalous secondary growth in plants and their causes. <input type="checkbox"/> Perform the techniques in anatomy. <input type="checkbox"/> Know fertilization, endosperm and embryogeny. <input type="checkbox"/> Understand the structure and development in microsporangium and megasporangium.
9.	22SNMEZO2	Non Major Elective – Public Health and Hygiene	<p>Understand the concept of nutrition, balanced diet and related deficiencies.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Comprehend environmental health related risks and their impacts. <input type="checkbox"/> Identify the source of origin of any disease and its related symptoms. <input type="checkbox"/> Perceive the precautionary strategies to avoid any type of disease. <input type="checkbox"/> Create awareness on various health education policies, Amendments and Acts and social health programmes.
10.	22SNMEBO1	Non Major Elective I Semester Iii Biofertilizers Biopesticides And	<p>Understand the importance of biofertilizers.</p> <ul style="list-style-type: none"> <input type="checkbox"/> To organize the bio fertilizers for mass cultivation parameters. <input type="checkbox"/> To categorize the type of bio fertilizers to be used.



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			<input type="checkbox"/> To employ the biofertilizers for commercialization. <input type="checkbox"/> Aware the mechanism and action of biopesticides.
11.	22SNMEBO2	Non–Major Elective Horticulture	Acquire knowledge on horticulture. · Demonstration of horticulture technique is well achieved. · Understand the landscape gardening · Knowledge on culture practice and management · To get opportunity on various ornamental plants cultivation.
12.	16SCCBO5	Cell And Molecular Biology	To study microscopy, cell organelles of Prokaryotic and Eukaryotic cells, chromosomes, cell divisions, DNA and RNA. ➤ Gene regulation and chloroplast and mitochondria genome organization.
13.	16SCCBO6	Genetics, Biostatistics And Evolution	➤ Mendelian Genetics, Recombination of Chromosomes, Structure and Function of Genes. ➤ Mutation Impart Knowledge On Biostatistics ➤ Applications Biological Experiments ➤ Of Evolution and Population Genetics.
14.	16SCCBO7	Morphology, Taxonomy And Economic Botany	➤ To study morphological features of vegetative, inflorescence, fruits and seed characters. ➤ To impart knowledge on botanical nomenclature, classifications, merits and demerits of various systems of classifications. ➤ To understand the systematic of the selected families of the flowering plants with their economic importance. To have knowledge on the economically important plants with their systematic treatment
15.	16SMBEBO1	Major- Based Elective Medical And Applied Botany	➤ To understand the importance of the medicinal plant wealth in India and the role of Medicinal plants in human health care. ➤ To know the medicinally useful plants, Herbal medicine preparation for common diseases and adulterants. ➤ To understand the importance of biofertilizers and biopesticides



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			To understand the techniques involved in the cultivation of edible mushrooms
16.	16SCCBO8	Plant Physiology, Biochemistry And Biophysics	<ul style="list-style-type: none"> ➤ To understand the metabolic activities of plants ➤ To understand the role of enzymes in various metabolic activities of plants <p>To know the application of the laws of physics in biological phenomena</p>
17.	16SCCBO9	Plant Ecology And Conservation	<ul style="list-style-type: none"> ➤ To realize the values of plants and animals of the ecosystem ➤ To know about the hazards of pollution and the importance of keeping his/her environment clean ➤ To know in detail on various types of vegetation ➤ To know about his/her environment and mould the student to become managers of various ecological systems
18.	16SMBEO2	Major- Based Elective I Plant Breeding, Horticulture And Landscaping	<ul style="list-style-type: none"> ➤ the various methods of plant breeding and plant propagation <p>teaches students the art of growing plants for a pre-defined purpose and pleasure and facilitates students to become an entrepreneur</p>
19.	16SMBEO3	Major- Based Elective Plant Biotechnology And Bioinformatics	<ul style="list-style-type: none"> ➤ To comprehend the advances made in the field of plant biotechnology; and bioinformatics <p>To understand how mere jumbling of genes results in the creation of new organisms</p>



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PG & RESEARCH DEPARTMENT OF BUSINESS ADMINISTRATION

Programmes offered:

- **BBA (Aided)**

Programme Objectives:

- To provide adequate basic understanding about Management Education among the students.
- To prepare students to exploit opportunities being newly created in the Management Profession.
- To train the students in communication skills effectively.
- To develop appropriate skills in the students so as to make them competent and provide themselves self-employment.
- To inculcate Entrepreneurial skills.

Programme outcomes: (For BBA)

- The Bachelor of Business Administration programme is a judicious mix of all functional elements of Business studies which provide participants with foundational knowledge on different aspects of the administration of a business concern. It includes at one end the need to realize why an organization exists while the other shows the new frontiers to which it can be developed.
- The programme intends to train the students to become competent enough for entry level management professionals. Its basic aim to impart basic and operational knowledge on all functional areas of management makes the programme convergently unique.
- The core objective of the programme is to make young BBA's a change agent in the society by fostering values which self-proclaim that "Turn to enterprising serves the society and the nation".



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Programme Specific outcomes:

- This programme is designed to develop knowledge on the functional parlour of business administration. The disciplines it covers include management, commerce, banking, economics, law, mathematics, statistics, accounting, communication, computer application and accounting software.
- At the under graduate level no other programme provides the student a feel and basic understanding on such a variety of disciplines. These disciplines are not merely touched upon but are dealt taking the serious contributions it can provide to running business enterprises.
- The programme is designed in such a fashion to provide ample scope for practical exposure to the problems and opportunities of real business.

Course Outcomes:

SEMESTER	SUBJECT CODE	NAME OF THE COURSE	OUTCOMES
I	22BCCBB1	CORE COURSE-I INTRODUCTION TO MANAGEMENT	<input type="checkbox"/> Enhance their managerial abilities and professional skills. <input type="checkbox"/> <input type="checkbox"/> Develop and make the students to know the organization hierarchy; authority and Responsibility relationships associated with the different levels of Management. <input type="checkbox"/> <input type="checkbox"/> Understand the complexities associated with management of human resources in the organizations and integrate the learning in handling these complexities. <input type="checkbox"/>
	22BCCBB2	CORE COURSE-II FUNDAMENTALS OF ACCOUNTING	<input type="checkbox"/> Identify events that need to be recorded in the accounting records <input type="checkbox"/> Describe the need for adjustments while preparing the financial statements; <input type="checkbox"/> To facilitate them to prepare final Accounts of business and non-trading concerns. <input type="checkbox"/> Recognize circumstances providing for increased exposure to errors and frauds <input type="checkbox"/> Along with the methods of depreciation, the accounts to be prepared by non-trading Concern



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	22BFACBB1	FIRST ALLIED COURSE- I MANAGERIAL ECONOMICS	<input type="checkbox"/> Apply the objectives of business firms, demand analysis and elasticity of demand. <input type="checkbox"/> <input type="checkbox"/> Identify the effective applications of factors of production. <input type="checkbox"/> <input type="checkbox"/> Analyze the break-even point in their business. <input type="checkbox"/> <input type="checkbox"/> Understand the determination of the Price, Market structure and competition. <input type="checkbox"/> <input type="checkbox"/> Evaluate the performance of public sector in India.
	22UGVED	VALUE EDUCATION	<ul style="list-style-type: none"> • Apply the values in thirukural to be peaceful, dutiful and responsible in family and society • Develop character formation and sense of citizenship • Be secular, self-control, sincere, respectful and moral. • Master yoga, asana and meditation to promote mental health • Be attitudinal to follow the constitutional rights Students to understand the value education is to include the essential values depending upon the objectives, they may be individual, social and national values for example in India.
II	22BCCBB3	CORE COURSE- III MARKETING MANAGEMENT	<input type="checkbox"/> Students gain knowledge about the basic concepts of marketing <input type="checkbox"/> <input type="checkbox"/> Students develop skills to tackle the challenges and latest development in Marketing Management <input type="checkbox"/> <input type="checkbox"/> Awareness of buyer's behavior becomes better among students <input type="checkbox"/> <input type="checkbox"/> Students gain the Practical Knowledge to sell the goods. <input type="checkbox"/>
	22BCCBB4	CORE COURSE- IV BUSINESS MATHEMATICS AND STATISTICS	<input type="checkbox"/> Understand how differentiations are used as mathematical tools in Business. <input type="checkbox"/> Understand how matrices and determinants are used as mathematical tools in Business. <input type="checkbox"/> Able to use the appropriate statistical techniques in Business <input type="checkbox"/> Able to develop a strategic approach to organize and analyze the data <input type="checkbox"/> Analyze the management problems in research and decision making.



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	22BFACBB2	FIRST ALLIED COURSE- II BUSINESS ENVIRONMENT	<ul style="list-style-type: none"> <input type="checkbox"/> Develop an understanding on the gamut of the business activities. <input type="checkbox"/> To analyze various categories that constitute the business environment and apply various approaches that is helpful to manage both the internal and external environment of the business. <input type="checkbox"/> To apply the various types of policies in the economic environment, applying these policies change the structure of the economy and the transition there of from the past to the present scenario. <input type="checkbox"/> Comprehend the environmental factors that are conducive /detrimental to the respective businesses <input type="checkbox"/> Facilitating the learners understand, analyze and take decisions for a given international business environment.
	22UGCES	ENVIRONMENTAL STUDIES	<ul style="list-style-type: none"> • Understand the environmental importance including interactions across local to global scales. • The learners to update and analyze environmental relationships and interactions of environmental components • The student to gain knowledge on importance of natural resources in a systematic way. • The course content is introduce the concept of renewable and non-renewable energy resources and its scenario in India and at global level • The students will know the relationship between biodiversity and ecosystem functions, direct and indirect values of biodiversity resources and their bioprospecting opportunities. • The learners can gain awareness related on environmental pollution, causes and pollution control with case studies. • Student to obtain the environmental ethics and gain knowledge about the sustainable development. • Learners should realize the environmental legislation and policies of national and international regime and know the regulations applicable to



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			industries and other organizations with significant Environmental aspects
	22PELCM1	PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT –I	<ul style="list-style-type: none"> • Recognise their own ability to improve their own competence in using the language • Use language for speaking with confidence in an intelligible and acceptable manner • Understand the importance of reading for life • Read independently unfamiliar texts with comprehension • Understand the importance of writing in academic life • Write simple sentences without committing error of spelling or grammar (Outcomes based on guidelines in UGC LOCF – Generic Elective)
III	22BCCBB5	CORE COURSE - V MANAGERIAL COMMUNICATION	The students will be aware of their communication skills and know their potential to become successful managers. <ul style="list-style-type: none"> • The students will get enabled with the mechanics of writing and can compose the business letters in English precisely and effectively. • Students will get exposure in drafting business proposals to meet the challenges of competitive environment. • The students will be introduced to the managerial communication practices in business those are in vogue. • Students will get trained in the art of Interpersonal communication and technological advancement and social media usage in communications, with emphasis on analysing business situations.
	22BCCBB6	CORE COURSE - VI COMPUTER APPLICATIONS IN BUSINESS(Theory)	<ul style="list-style-type: none"> • Students gain the knowledge of computers • Students developed skills in MS Office • They get acquaint skills in Tally for business functions. • Student known about the GST • Students gain the Practical Knowledge in MS Office, Tally and GST applications
	22BSACBB1	SECOND ALLIED COURSE - I BUSINESS LAW	Learn the basics of laws governing commercial contracts and nuances of competency to contract, rules of consideration, free concern and



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			<p>object of contract with case laws and illustrations.</p> <ul style="list-style-type: none"> • Have an insight on the provisions related to Sale of Goods Act 1930 • Understand the consequences of applicability of various laws on business situations. • Know the rights and duties under various legal acts. • Develop critical thinking through the use of law cases.
	22SNMECS1 / 22 LCST1	NON-MAJOR ELECTIVE – I FUNDAMENTALS OF INFORMATION TECHNOLOGY / SPECIAL TAMIL	<p>Students to understand the basic concepts and working principles of internet and help them to acquire the skills needed to become successful IT professional and to expose learners to various processes of the management</p>
	22PELCM2	PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT-II	<ul style="list-style-type: none"> • Recognise their own ability to improve their own competence in using the language • Use language for speaking with confidence in an intelligible and acceptable manner • Understand the importance of reading for life • Read independently unfamiliar texts with comprehension • Understand the importance of writing in academic life • Write simple sentences without committing error of spelling or grammar <p>(Outcomes based on guidelines in UGC LOCF – Generic Elective)</p>
IV	22BCCBB7	CORE COURSE - VII ORGANIZATIONAL BEHAVIOUR	<ul style="list-style-type: none"> <input type="checkbox"/> Have an insight on how employees behave and perform in the workplace <input type="checkbox"/> Analyze the individual and group behavior and understand the implications of organizational behavior on the process of management. <input type="checkbox"/> Understand their own behavior, attitude, ethical views and performance as well as those of the people with whom they behave. <input type="checkbox"/> Demonstrate how to make better decisions both as an individual and in a group <input type="checkbox"/> Apply different motivational theories and methods to increase the productivity and job satisfaction of employees
	22BCCBB1P	CORE PRACTICAL-I COMPUTER APPLICATION IN BUSINESS	<ul style="list-style-type: none"> <input type="checkbox"/> To gain practical knowledge in computer applications



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		(Practical)	<input type="checkbox"/> To give in-depth knowledge of documentation through MS Office packages <input type="checkbox"/> To help them apply various accounting procedures through TALLY software
	22BSACBB2	SECOND ALLIED COURSE - II OPERATIONS RESEARCH	<input type="checkbox"/> Formulate and obtain the optimal solution for Linear Programming problems. <input type="checkbox"/> Determine the optimal solution for Transportation problems. <input type="checkbox"/> Determine the optimal solution for Assignment problems. <input type="checkbox"/> Understand the need of inventory control and Management <input type="checkbox"/> Decide an optimal replacement decision for given equipment.
	22SNMECS2 / 22 LCST2	NON-MAJOR ELECTIVE – II WORKING PRINCIPLES OF INTERNET / SPECIAL TAMIL	Perform end user support including identifying and implementing solutions to user requests and Analyze technical requirements to determine resource requirements and the impact the solution will have on an organization.
V	16CCBB9	CORE COURSE IX COST ACCOUNTING	To enable students to conceptualize Various methods and techniques of cost accounting and its application.
	16CCBB10	CORE COURSE X FINANCIAL MANAGEMENT	Students should be able to show Analytical skills in short term and longterm decision making. Core Course XI Company Law and Secretarial Practice
	16CCBB11	CORE COURSE XI COMPANY LAW AND SECRETARIAL PRACTICE	Understand the concept of company law and secretarial practice and comprehend important elements of company documents and to get enlightened on the role of company secretary and the procedures of meetings.
	16CCBB12	CORE COURSE XII RESEARCH METHODS IN MANAGEMENT	Students will be able to convert business problems into research problem and design research accordingly. Students will be able to identify correct statistical tools to solve problem in hand. Students will write short research report.
	16MBEBB1	MAJOR BASED ELECTIVE – I SERVICES MARKETING	Students to know the various concepts of services marketing and they understand the strategies for managing and marketing of services and to devise strategies for marketing



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			services in the liberalized business environment.
	16RSBE7:2	SKILL BASED ELECTIVE – II OFFICE MANAGEMENT TOOLS	This course will help you develop an assertive and organized approach to managing people and processes in your office, to facilitate harmonious and productive working. It includes key management skills and planning techniques to improve information flow and achieve objectives.
	16RSBE7:3	SKILL BASED ELECTIVE – III COMMUNICATION & INTERPERSONAL SKILLS	Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.
	RUGSDC	SOFT SKILLS DEVELOPMENT	student will be able to effectively communicate through verbal/oral communication and improve the listening skills and write precise briefs or reports and technical documents and actively participate in group discussion / meetings / interviews and prepare & deliver presentations
VI	16CCBB13	CORE COURSE XIII HUMAN RESOURCE MANAGEMENT	Understand of the basic elements of HRM and gain knowledge on various facets, the policies and practices of HRM and to acquire knowledge on the recent trends in HRM.
	16CCBB14	CORE COURSE XIV MANAGEMENT ACCOUNTING	Students should acquire the basic knowledge required for application of tools for decision making.
	16CCBB15	CORE COURSE XV ENTREPRENEURIAL DEVELOPMENT	The students will be able to design successful Business Plan in order to setup a venture in future. The students will become more capable in selfemployment.
	16MBEBB2	MAJOR BASED ELECTIVE – II MANAGEMENT CONCEPTS IN THIRUKKURAL	To expose the students of management studies, thirukkural the book of wisdom that has stood the test of time for over 2000 years and still remains relevant as a guiding force for the mankind.
	16MBEBB3	MAJOR BASED ELECTIVE – III GLOBAL BUSINESS MANAGEMENT	understand the fundamental concepts of international trade and to comprehend basic principles of t of MNCs and to acquire broad knowledge on Global Liberalization and WTO Agreements
	UGGS	EXTENSION ACTIVITIES** GENDER STUDIES	Students will be adept at considering gender in diverse national and international contexts as a result of studying the multiple and contested



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			meanings and roles of gender from a historical, a multidisciplinary, and a transnational perspective, and will have developed an understanding of how gender is related to other social categories such as race, ethnicity, social class, sexuality, religion, and nationality.
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PG and RESEARCH DEPARTMENT OF CHEMISTRY

Programmes Offered:

- B.Sc. (Aided)
- M.Sc. (Aided)
- M.Sc. (Unaided)
- Ph.D.

B.Sc. Chemistry

PO-1. Demonstrate, solve and an understanding of major concepts in alldisciplines of chemistry.

PO-2. Solve the problem and also think methodically, independently anddraw a logical conclusion.

PO-3. Employ critical thinking and the scientific knowledge to design, carryout, record and analyze the results of chemical reactions.

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

PO-5. Find out the green route for chemical reaction for sustainabledevelopment.

PO-6.To inculcate the scientific temperament in the students and outsidethe scientific community.

PO-7. Use modern techniques, decent equipments and Chemistry software's

Course Outcomes:

B.Sc. Chemistry

S.No	Subject Code	Name of the Course	Course Outcomes
01	22SCCCH1	General Chemistry-I	<ul style="list-style-type: none">• To predict periodic properties and position of elements in the periodic table.• To apply theoretical aspects in qualitative and quantitative analysis and work safe and hygienically in laboratories.• To prepare and predict the stability and reactivities of reaction intermediates.• To prepare & explain the properties of colloids and emulsions.• To determine the Molecular Weight of macromolecules.
02	22SCCCH1P	Volumetric Analysis	<ul style="list-style-type: none">•To understand the use of volumetric pipette, burette and analytical balance.• To Explain the principles of volumetric analysis,• Toprepare standard solution to find out the concentrations of unknown analyte,• To understand the selection of indicators and can apply the knowledge in chemical experiments.



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03	22SCCCH2	General Chemistry-II	<ul style="list-style-type: none"> • To explain the principles and theories of chemical bonding. • To explain the chemistry of S-block elements and Zero group elements. • To apply the concept of common ion effect, solubility product in inorganic Semi micro qualitative analysis • To explain the reaction mechanism of haloalkanes and halobenzene. • To explain atomic models. Atomic spectrum and dual nature of light black body radiation and significances of wavefunctions.
04	22SCCCH2P	Applied experiments in Volumetric Analysis	<ul style="list-style-type: none"> • To Apply the principles of complexometric titrations, • To understand the conditions of complex formation. • To prepare the buffer solutions at a required pH • To select the correct titrimetric procedure along with standard and nonstandard solutions. • To perform all sorts of volumetric calculations.
05	22SCCCH3	General Chemistry-III	<p>To explain the chemistry of p block elements.</p> <ul style="list-style-type: none"> • To prepare and to predict the structure and properties of compounds of oxygen, sulphur, halogens & interhalogen compounds. • To predict the absolute and relative configuration of organic molecules. • To isolate, resolve the mixture of conformational isomers • To explain the gas laws, properties of real gases and types of molecular velocities. • To explain the types, structure and properties of solids and liquid crystals.
06	22SCCCH3P	Semi micro Analysis(P)	<ul style="list-style-type: none"> • To understand the systematic steps to perform a qualitative analysis and the logical sequence of each step. • To understand chemical equilibria involving acid/base, redox, precipitation and complexation. • To understand the purpose of elimination of interfering acid radical, separation of groups and identifying cations and anions in aqueous solutions. • To plan, execute and record all the experimental results.
07	22SCCCH4	General Chemistry-IV	<p>To explain the general characteristics of d and f block elements.</p> <ul style="list-style-type: none"> • To apply the principles of metallurgy for extraction of metals from ores • To explain the reactions of organometallic compounds, alcohols, phenols and ethers. • To relate heat, work and energy and to calculate



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			work from pressure – volume relationships. • To determine order of the reaction and to explain theories of reaction rates.
08	22SCCCH4P	Organic Analysis and Preparation (P)	<ul style="list-style-type: none"> • Understand the fundamental methods and procedures adopted in organic analysis. • Perform systematic qualitative organic analysis of common organic compounds • Detect of special elements N, S and halogens • Apply chemical tests to identify unknown chemical species • Synthesise simple organic compounds on a laboratory scale. 6. Perform Isolation and purification of organic compounds.
09	16SCCCH5	Inorganic Chemistry -I	<ul style="list-style-type: none"> • To understand the basics and theories of coordination compounds. • To study a few biologically important coordination compounds. • To understand the preparation and properties of nitrosyl compounds • To learn the basic principles and applications of magnetic properties.
10	16SCCCH6	Organic Chemistry -I	<ul style="list-style-type: none"> •To learn the reactions of carbonyl compounds, carboxylic acids, amines, heterocycles. • To know the requirement of the oxidation and reducing agents for synthesis.
11	16SCCCH7	Physical Chemistry-I	<ul style="list-style-type: none"> • To know the various concepts of photochemistry and group theory. • To learn the second law of thermodynamics, carnot cycle, carnot theorem, entropy, free energy and Maxwell's relations. • To learn the third law of thermodynamics, Van't Hoff isotherm, Clausius – Clapeyron equation and Nernst heat theorem. • To understand the laws and properties of solutions. • To learn the fundamental concepts of phase rule and its applications to one, two and three component systems.
12	16SMBECH1:1	Analytical Chemistry	<ul style="list-style-type: none"> • To know the storage and handling of various chemicals and first aid procedures. • To learn data analysis, various separation techniques. • To learn gravimetric analysis and various thermo analytical methods. • To learn visible spectrophotometry and colorimetry. • To know the various electroanalytical techniques.
13	16SCCCH3P	Practical-III(Physical Chemistry)	<ul style="list-style-type: none"> • To learn the fundamentals of conductometric and potentiometric titrations. • To understand the method of



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			determination of molecular weight, CST, TT and rate constant.
14	16SCCCH8	Organic Chemistry -II	<ul style="list-style-type: none"> • To learn the chemistry of carbohydrates, proteins, vitamins, alkaloids and terpenoids. • To understand the rearrangements and spectroscopy techniques for the elucidation of structures.
15	16SCCCH9	Physical Chemistry-II	<ul style="list-style-type: none"> • To learn the various concepts of electrochemistry. • To know the types and theories of catalysis. • To learn the adsorption isotherms. • To know the spectroscopic techniques such as IR, UV-visible, Raman and NMR.
16	16SMBECH2	Nuclear and Industrial Chemistry	<ul style="list-style-type: none"> • To know the fundamentals of nuclear chemistry. • To understand the applications of nuclear chemistry. • To study the metallic bond, theories and applications. • To understand the applications of inorganic polymers.
17	16SMBECH 3:1	Polymer Chemistry	<ul style="list-style-type: none"> • To know the chemistry of polymers. • To study the importance of polymers. • To study the concepts of polymerization and techniques.
18	16SCCCH4P	Gravimetric and organic Analysis Practical-IV	<ul style="list-style-type: none"> • To learn the techniques of gravimetric analysis. • To learn the methods of different organic compounds preparation and analysis.

M.Sc. Chemistry

S.No	Subject Code	Name of the Course	Course Outcomes
01	P22CHCC11	Inorganic Chemistry -I	<ul style="list-style-type: none"> • To understand the basic concepts of main group elements. • To learn the theories and mechanism of reactions of metal complexes. • To study the concepts of photochemistry and its applications.
02	P22CHCC12	Organic Chemistry -I	<ul style="list-style-type: none"> • To learn the Nomenclature of Organic Compounds • To learn stereochemistry of organic compounds. • To understand the basic concepts of aromaticity. • To know about oxidation and reducing reagents for organic synthesis.
03	P22CHCC1A	Physical Chemistry-I	<ul style="list-style-type: none"> • To study the theories of kinetics, photochemistry and radiation chemistry. • To understand the concepts of quantum



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			mechanics and group theory. • To learn the statistical thermodynamics.
04	P22CHE1A	Analytical Chemistry	<ul style="list-style-type: none"> • To learn the instrumental methods • To learn the nature of errors and their types. • To understand the various techniques in chromatography. • To understand the principles and instrumentation of thermoanalytical and fluorescence techniques. • To studying detail, the electroanalytical techniques.
05	P22CHCC1P	Inorganic Chemistry Practical	<ul style="list-style-type: none"> • To perform the semi-micro qualitative analysis. • To estimate the metal ions using colorimeter. • To Prepare the coordination complexes
06	P22CHVAC1	Environmental Chemistry	<ul style="list-style-type: none"> • To know the fundamentals of various environment. • To study the Energy Resources, Ecosystem, Biodiversity and its Conservation. • To learn environment related social issues
07	P22CHCC21	Physical Chemistry -II	<ul style="list-style-type: none"> • To study the applications of quantum chemistry and group theory. • To acquire knowledge about various spectroscopic techniques.
08	P22CHCC22	Inorganic Chemistry -II	<ul style="list-style-type: none"> • To understand the role of metal ions in biological process. • To learn the basic concepts of chemotherapy. • To learn the fundamentals of organometallic compounds and catalysis.
09	P22CHCC2B	Bioorganic Chemistry	<ul style="list-style-type: none"> • To learn the preparation, properties of amino acids and proteins. • To study the activity of enzymes and cofactors. • To know basics of lipids and nucleic acids. • To learn the concept of bioenergetics. • To learn the principles of lead and analogue synthesis.
10	P22CHE2B	Pharmaceutical Chemistry	<ul style="list-style-type: none"> • To understand the basics of pharmaceutical chemistry. • To study the antibiotics and their activity. • To learn the analgesic and antipyretic activities. • To know the activities of anaesthetics and local anaesthetics. • To understand concept of clinical chemistry.
11	P22PYNME1	Physics for Everyone	<ul style="list-style-type: none"> • To understand the fundamental principles and basics of physics. • To know the light sources in our environment with concepts of physics. • To impart knowledge on energy sources in diverse fields.
12	P22CHCC2P	Organic Chemistry Practical-I	<ul style="list-style-type: none"> • To perform the qualitative analysis of a given organic mixture. • To estimate the organic compounds



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13	P22CHCC31	Organic Chemistry -III	<ul style="list-style-type: none"> • To learn the Photochemistry and Pericyclic reactions • To apply the various spectroscopic techniques of organic compounds • To understand the Retro synthetic analysis and strategy.
14	P22CHCC32	Physical Chemistry-III	<ul style="list-style-type: none"> • To learn about the Electrochemistry • To acquire knowledge about kinetics, surface Phenomena and catalysis • To understand Classical Thermodynamics.
15	P22CHCC3A	Inorganic Chemistry - III	<ul style="list-style-type: none"> • To educate students on electronic and Raman spectroscopy. • To acquire knowledge in NMR,EPR and NQR spectroscopy
16	P22CHE3B	Catalysis	<ul style="list-style-type: none"> • To understand the basic concepts of catalysis • To know the different methods of catalysis • To learn the various techniques and mechanisms involved in catalysis.
17	P22PYNME2	Renewable Energy Sources	<ul style="list-style-type: none"> • To understand the necessity of using solar energy. • To learn the fundamentals of solar energy conversion systems. • To comprehend the challenges in sustainable energy processes.
18	P22CHCC3P	Physical Chemistry Practical-I	To perform the various techniques of physical chemistry experiments.
19	P22CHCC41	Chemistry of Nano Science and Nano Technology	<ul style="list-style-type: none"> • To know the basic ideas of an industry and industrial wastes. • To understand the petroleum and petrochemicals. • To understand the functions of portland cement. • To study the principles of pulp and paper. • To know the preparation of soaps, detergents and perfumes.
20	P22CHCC42	Selected topics in chemistry	<ul style="list-style-type: none"> • To know the synthetic methods of nanomaterials. • To understand the characterization of nanomaterials. • To understand carbon clusters and nanostructures. • To learn nanotechnology and nanodevices.
21	P22CHIBC	Industrial Chemistry	<ul style="list-style-type: none"> • To know the basic ideas of an industry and industrial wastes. • To understand the petroleum and petrochemicals. • To understand the functions of portland cement. • To study the principles of pulp and paper. • To know the preparation of soaps, detergents and perfumes.
22	P22CHVAC2	Polymer Chemistry	<ul style="list-style-type: none"> • To know the basic concepts of polymers. • To study the Structure and Properties of Polymers. • To learn the applications of polymers.



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PG & RESEARCH DEPARTMENT OF COMMERCE

Programmes offered:

- **B.Com (Aided)**
- **B.Com. (Unaided)**
- **M.Com. (Aided)**
- **Ph.D.**

B.Com.

Programme Outcomes (PO):

The Under graduation programme in commerce is aimed at equipping students with necessary skill sets to make them fully conversant with all basic aspects in the world of business in tune with the changing times.

Programme Specific Outcomes (PSO)

Mentoring students to take up assignments in the domain of commerce and business with the conceptual and theoretical frameworks replicating real time job environs.

Course Outcomes (CO'S)

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	22CCCCM1	Principles of accountancy	<p>LEARNING OUTCOMES: On successful completion of the subject, the students acquired knowledge about: The Concepts and Conventions of Financial Accounting.</p> <ul style="list-style-type: none"> • Accounting for sole traders with adjustment entries and Rectification of Errors • Calculation of Accounts of Non-profit organization and Bills of exchange. • Accounts of the Agency Business and temporary partnership. • Preparation of Accounts under Single Entry System. Calculation of Depreciation and • Provisions and Reserves by using the various methods
2	22CCCC M2	Marketing	<p>LEARNING OUTCOMES : Familiar with the basic concepts and functions of marketing</p>



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			<ul style="list-style-type: none"> • Effective understanding of buyer behaviour and new product development • Communicate the pricing methods and services rendered by the middlemen • Demonstrate analytical skills in selling the product in the market • Develop knowledge in marketing research and recent trends in marketing
3	22CFACCM1	Management Concepts	<p>LEARNING OUTCOMES :</p> <p>To Understand the Evolution and theory of Management,• To develop the students to take decisions in various fields. • To get a knowledge about various organization structure and its responsibility, • To develop the flow of communication among the people, • To examine and practice the suitable leadership pattern in organization</p>
4	22UGVED	Value Education	<p>COURSE OUTCOMES:</p> <p>After completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> • Apply the values in thirukural to be peaceful, dutiful and responsible in family and society Develop character formation and sense of citizenship • Be secular, self-control, sincere, respectful and moral. • Master yoga, asana and meditation to promote mental health <p>Be attitudinal to follow the constitutional rights</p>

II Semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	22CCCCM3	Business Accounting	<p>LEARNING OUT COMES:</p> <p>On successful completion of the subject, the students acquired knowledge about;</p>



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			<p>Students are familiarized with branch accounts and departmental accounts</p> <ul style="list-style-type: none"> • Students can deal with hire purchase system and Installment purchase system • Become knowledgeable on self balancing and sectional balancing ledgers and royalty • account. Trained to handle the Insolvency accounts and statement of affairs • Trained to calculate Fire insurance claims and accounting for sale or return.
2	22CCCCM4	Business Tools for Decision making	<p>LEARNING OUTCOMES: On successful completion of the course, the students will</p> <p>Index numbers</p> <ul style="list-style-type: none"> • Time series and interpolation • Simple correlation and regression • Measures of Dispersion and Skewness. • Basics in statistics, Classification, Tabulation and Measure of central tendency • acquire knowledge on
3	22CFACCM2	Business Economics	<p>LEARNING OUTCOMES : The Micro and Macro Economics relating to business..1 Demand and concepts in relation to Law of Demand, Demand Curves and Elasticity of Demand..2 Production function, scale of production and economics of large scale production and limitations..3 Law of Supply, Optimum firm, pricing under Perfect and Monopolistic competition..4 Income and Expenditure pattern of National Income.5</p>



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4	22UGCES	Environmental Studies	<p>COURSE OUTCOMES: Understand the environmental importance including interactions across local to global scales. The learners to update and analyze environmental relationships and interactions of environmental components The student to gain knowledge on importance of natural resources in a systematic way. The course content is introduce the concept of renewable and non-renewable energy resources and its scenario in India and at global level The students will know the relationship between biodiversity and ecosystem functions, direct and indirect values of biodiversity resources and their bioprospecting opportunities. The learners can gain awareness related on environmental pollution, causes and pollution control with case studies. Student to obtain the environmental ethics and gain knowledge about the sustainable development. Learners should realize the environmental legislation and policies of national and international regime and know the regulations applicable to industries and other organizations with significant Environmental aspects</p>
S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	22CCCCM5	Partnership Accounts	<p>COURSE OUTCOMES : On successful completion of the subject, the students acquired knowledge about: Students are aware about partnership</p>



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			<p>accounts and various Accounting Treatments.</p> <ul style="list-style-type: none"> • Students can familiar with accounts for Admission of Partner, Partner's Capital Accounts and • Balance Sheet. Students become knowledgeable on calculation of Gaining ratio, Adjustments regarding • partner's Capital Account at the time of Retirement of a Partner Students get trained to prepare the accounts for Dissolution of partnership firm, Realisation of • asset and Insolvency of a partner. Trained to calculate the accounts for Amalgamation of firms and Conversion of sale of a • partnership firm to a company
2	22CCCM6	Business Law	<p>COURSE OUTCOMES :</p> <p>After the successful completion of the course students will able to get Knowledge about the basics of Law and to know about the meaning of contract.</p> <ul style="list-style-type: none"> • Knowledge about the Principle and Practices of law relating to contract. • Knowledge about the law relating to Bailment, pledgement and Contract of Agency • Knowledge about the different aspects and the rules and regulations connected with Sale of • Goods Act Knowledge about the basics law pertaining to Negotiable Instruments, cyber-crime and the law • relating to Information Technology.
3	22CSACCM1	Business Communication	<p>LEARNING OUTCOMES FOR THE COMMUNICATION :</p>



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			<p>Understands the basics of communication</p> <ul style="list-style-type: none"> • Knowledge about different types of communication • Through knowledge on report writing • Knowledge on preparation of different official letters • Knowledge on corporate communication.
4	22ANMEEC1	Economics for Investors	<p>COURSE OUTCOMES: After the completion of the course students should be able to:</p> <ul style="list-style-type: none"> • Describe the types and importance of savings and investments. • Explain the available for investment avenues • Understand the operations of different types of investment markets. • Evaluate the economic fundamentals and information. <p>Construct objective enabling investment plans, strategy, evaluate and restructure if required.</p>

IV Semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	22CCCM7	Cost Accounting	<p>COURSE OUTCOMES : Learners are explained how accounts are maintained in cost a/c. and how to record</p> <ul style="list-style-type: none"> • various costing transactions. Learner got insight as to where contract costing is applied, steps in contract costing, and • profit is ascertained of complete & incomplete contract. Learner understood of Process costing is



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			<p>applicable and to ascertain cost at each stage of</p> <ul style="list-style-type: none"> • process; valuation of abnormal gain & abnormal loss Learner understood of meaning, application of Marginal costing towards Break even • analysis, P/V ratio used in Managerial decision. Learner got understanding of standard cost and its types, process, and types of variances • through application used for Managerial decisions
2	22CCCCM8	Banking Theory, Law and practice	<p>COURSE OUTCOMES :</p> <p>Elucidate the services rendered by banks• Have an understanding about various types of accounts and savings schemes• Generate information types of customers• Analyse information about the rights, responsibilities and duties of paying and collecting• banker Express opinions recent trends in Modern Banking•</p>
3	22CSACCM2	Company law and secretarial practices	<p>COURSE OUTCOMES:</p> <p>After the successful completion of the course students will able to get Knowledge regarding the procedures to form a company. • Knowledge regarding how to prepare the documents of a company. • Knowledge how to raise their owned capital and borrowings. • Knowledge about the types of company meetings. • Knowledge about the procedure for wind up a company. •</p>
4	22ANMEEC2	Economic For Competitive Examinations	<p>COURSE OUTCOMES:</p> <p>After the completion of the course students should be able to:</p> <p>.</p> <p>Explain the basic Economic Growth Concepts with data.</p> <p>•</p>



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			<p>Examine the various development aspects of the Indian Economy over the years.</p> <ul style="list-style-type: none"> Analyze the income structure and poverty issues in India. Explain the Tax Structure and Fiscal Federalism in India. <p>Examine the Banking and Trade aspects of India.</p>
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V Semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	16CCCCM9	Corporate Accounting	Imparting knowledge on advanced accounting methods followed in companies.
2	16CCCCM10	Auditing	Enlightening the students on processes ensuring probity in record keeping
3	16CCCCM11P/T	Computer Applications in Business	Computer Applications in Business
4	16CCCCM12	Management Accounting	Offering knowledge on accounting aimed at Management people
5	16MBECM1	Entrepreneurial Development	Providing a platform to hone their business acumen / Sharing of information on global impacting marketing programmes
6	RUGSDC	Soft Skills Development	Aimed at improving inter personal skills of Students

VI Semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	16CCCCM13	Financial Management	Offering vital financial jargons and techniques of financial control and management



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2	16CCCCM14	Income Tax Theory Law & Practice	Imparting contemporary knowledge on income tax management processes
3	16CCCCM15	Financial Services	Making students well grounded on various financial products
4	16MBECM4	Services Marketing	Introducing core knowledge on people management/ Familiarizing the ways of popularizing and monetizing services
5	16MBECM5	Insurance Management	Enabling to have elementary knowledge on insurance
6	UGGS	Gender Studies	Sensitizing the students the need to be gender neutral

M.Com.

Programme Objective(PO):

The Post graduation programme in Commerce is designed to empower students on advanced levels of learning through consolidation of fundamental aspects of commerce imparted in under graduation.

Programme Specific Outcome (PSO)

Equipping students with all necessary skills sets with the offering of knowledge through various tiles of courses with core informational coupled with adequate practical exposure.

Course Outcomes (CO's)

I semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	P22MCCC11	Managerial Economics	Understand the methods of Managerial Economics <ul style="list-style-type: none"> •COURSE OUTCOMES: & Theory of the firm. Understand the concept •& Analysis of Demand Forecasting. Understand the concept •& Analysis of Production function. Describe various market forms and pricing Methods with their objectives.



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			<ul style="list-style-type: none"> Analyse the resource allocation in various economic levels for effective capacity utilization. Evaluate various market Structure, Strategy and Economic Forecasting
2	P22MCCC12	Services Marketing	<p>COURSE OUTCOMES : Students will strong conceptual knowledge in the area of services marketing</p> <ul style="list-style-type: none"> Student will acquaint knowledge in concept of services marketing in buyer behaviour and awareness. Students will have analytical skills in marketing mix, product strategy and PLC. Students will strong knowledge in banking marketing insurance marketing and transport marketing management. The commerce graduate can understand the tourism and hotel management.
3	P22MCCC13	Advanced Financial Management	<p>COURSE OUTCOMES : Formulate finance Decisions Considering Risk and Return.</p> <ul style="list-style-type: none"> Identify and discuss long term and short-term sources of finance. Compute the cost of debt, Equity, Preference, retain earnings and overall cost of Capital. Apply the concept of leverage in financial decision making. Design an Optimal capital Structure of the firm, understanding theories of capital structure and dividend. Evaluate the concept of Working Capital Management
4	P22MCCC1A .	Corporate law	<p>COURSE OUTCOMES : The students will be able to understand how law is important in day-to-day life.</p> <ul style="list-style-type: none"> The students will be able develop the knowledge and skills in the understanding of the general legal framework, and of specific legal areas relating to business. The students will get elementary knowledge about process of various legal transactions that



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			<ul style="list-style-type: none"> • occurs in the corporate world. The students will be able to identify the process of SEBI Regulations and its transparency and • disclosures. The students will have wide knowledge about the Environment Protection Act and Consumer • Protection Act.
5	P22MCE1B	Insurance Management	<p>COURSE OUTCOMES :</p> <p>Understand the concepts and significance of insurance, principles and kinds of insurance,</p> <ul style="list-style-type: none"> • impact of LPG on insurance industry in India and IRDA regulations for insurance business. Acquaint with life insurance and procedure followed for issuing life insurance policies • nominations, assignments, and revival and surrender value and claim settlement procedure for life insurance policies. Gain an insight on the nature of fire insurance and to know the procedure for making claims • against different kinds of insurance policies. Gain an insight on the nature of Marine Insurance and to know the procedure for making • claims against different kinds of insurance policies. Understand the features of personal accident insurance and general insurance.
6	P22MCVAC1	Mutual Funds - Concepts and Planning	<p>COURSE OUTCOMES :</p> <p>The students, after the completion of the course would be able to Know the basics of mutual funds, their role and structure.</p> <ul style="list-style-type: none"> • To know the different kinds of mutual fund schemes and their features. • Understand the channels for mutual funds distribution • Understand the legalities, accounting, valuation and taxation aspects underlying mutual • funds and their distribution. Get acquainted with financial planning as an approach to investing in mutual funds, as an



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			<ul style="list-style-type: none"> • aid for mutual fund distributors. <p>To develop long term relationships with their clients.</p>
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II semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	P22MCCC21	Research Methodology	<p>Developing research design and acquiring skills to formulate research</p> <ul style="list-style-type: none"> • Learning the meaning of research, its types. <p>•COURSE OUTCOMES :</p> <p>Upskilling Data construction, collecting techniques and testing their validity</p> <ul style="list-style-type: none"> • Acquiring knowledge of sampling technique and formulating Hypotheses. •problems. Developing skills in Processing and analysis of data, applying various •and reliability. Developing skills to draft a report. •statistical tools using software packages.
2	P22MCCC22	Quantitative Techniques of business decision	<p>COURSE OUTCOMES :</p> <p>To make the students evaluate different quantitative techniques</p> <ul style="list-style-type: none"> • The students will be able to take opt decisions in business. • The students will have knowledge in statistic and quantitative techniques. • The students will be familiar with decision making skills.



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			<ul style="list-style-type: none"> • The students will be able to design new skills in decision making.
3	P22MCCC23	Income Tax Law and Practice	<p>COURSE OUTCOMES</p> <p>Enabling students to file tax returns</p> <ul style="list-style-type: none"> • Providing avenues for employment opportunities in tax filing • Grasping the basics and advanced concepts in tax planning in knowledge perspective
4	P22MCCC2A	Human resource management	<p>COURSE OUTCOMES</p> <p>: Understand the concept of HRM.</p> <ul style="list-style-type: none"> • Identify the need for man power planning. • Gain Knowledge about various training programmes. • Know the procedures for recruitment and selection. • Enhance performance appraisal techniques. • Gain Knowledge about settlement about grievances.
5	P22MCE2A	Organisational Behaviour	<p>COURSE OUTCOMES</p> <p>: To understand the conceptual framework of the discipline of OB and its practical</p> <ul style="list-style-type: none"> • applications in the organizational set up. To deeply understand the role of individual-groups and structure in achieving • organizational goals effectively and efficiently. To critically evaluate and analyse various theories and models that contributes in the overall • understanding of the discipline. To develop creative and innovative ideas that could



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			<p>positively shape the organizations.</p> <ul style="list-style-type: none"> • To accept and embrace in working with different people from different cultural and diverse • background in the workplace.
6	P22CHNME1	Chemistry of Pollution, Food and Cosmetics	

III semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	P22MCCC31	Advanced Corporate Accounting	<p>COURSE OUTCOMES : The students will be able Construct the financial statements of company within the frame</p> <ul style="list-style-type: none"> • work of Ind AS 2 The students will be able to devise a plan for reconstruct the capital structure in the financial • statement of Joint stock company ltd. The students will be able to determine how the companies are analysed at the time of • Merger and Acquisition and its accounting procedures The students will familiarize about the concepts and the legal requirements related to • presentation of accounts by a holding company The students will be able to justify the outstanding claims against the Company and satisfy • those claims in the manner and order prescribed by law. The students will be to elaborate the various principles, provisions that govern the banking



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			<ul style="list-style-type: none"> • and insurance companies and how the Human resources are maintained in an organization in order to achieve cost effective organizational objectives
2	P22MCCC32	Information Technology Concepts (Theory)	<p>COURSE OUTCOMES : On successful completion of the course, the students will be able to Know Evolution, Classification and Applications of Computers</p> <ul style="list-style-type: none"> • Understand Computer peripherals • Have knowledge on Software, Programming Language, Word Processing and Spread Sheets • Presentation Do Data Communication and BDP • Aware Computerized Accounting
3	P22MCC33P	Information Technology Concepts (Practical)	<p>COURSE OUTCOMES : On successful completion of the course, the students will acquire skill on: Creating and Editing Word Documents and Saving, opening, closing and protecting</p> <ul style="list-style-type: none"> • documents; and Mail Merge. Creating work sheet and Charts, formula applications, and PPT. • MS Access, Database, Relationship, Query, Forms, Reports and Macros • Page maker and methods to use. • Photoshop, Images and Animation
4	P22MCCC3A	Brand Management	<p>COURSE OUTCOMES : On successful</p>



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			<p>completion of the subject, the students acquired knowledge about: Branding challenges & opportunities. Strategies for positioning the brand for competitive advantage</p> <ul style="list-style-type: none"> • Managing Brand image • Implications for buying & selling brands. Co-branding & Licensing Brands.
5	P22MCE3B	Project Management	<p>COURSE OUTCOMES : Understand project characteristics and various stages of a project.</p> <ul style="list-style-type: none"> • Understand the conceptual clarity about project organization and feasibility analyses: • Market- Technical- Financial and Economic. Analyse the learning and understand techniques for Project planning- scheduling and • Execution Control. Apply the risk management plan and analyse the role of stakeholders.
6	P22CHNME2	Chemistry in Day-To-Day Life	

IV semester

S.No:	SUB.CODE	NAME OF THE COURSE	COURSE OUTCOME
1	P22MCCC41	Strategic Management	<p>COURSE OUTCOMES : Upon Successful completion of this course the students would be able Acquire knowledge on basic concepts of strategy and levels of strategy</p> <ul style="list-style-type: none"> • Understand the strategic options and



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			<p>formulate realistic strategies to formulate vision</p> <ul style="list-style-type: none"> • mission and analyse a firm's internal strengths and weaknesses based on available resources and capabilities using various techniques. <p>Develop Knowledge on firm's external environment including competitive forces in the</p> <ul style="list-style-type: none"> • industry environment, forces in the macro environment, and competitors <p>Demonstrate the knowledge on the strategic approaches to manage a business successfully• on the nature of business and industry</p>
2	P22MCCC42	Advanced Cost and Management Accounting	<p>COURSE OUTCOMES : Understand the basis of conventional and contemporary costing systems</p> <ul style="list-style-type: none"> • Determine the costs of products and services • Critically analyse relevant costs and provide recommendations for decision making • Prepare plans and budgets and analyse variances from standard cost to pinpoint areas that • need control
3	P22MCIBC	Entrepreneurship Development	<p>COURSE OUTCOMES : To offer the students to understand the basic knowledge of entrepreneurship.</p> <ul style="list-style-type: none"> • To understand the EDP practices and preparation of project report.



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			<ul style="list-style-type: none"> • To familiarise in project market information, sources and financial problems. • To explain the finance to trade. • To describe the importance various organisations involved in entrepreneurial growth.
4	P22MCPW	Project work	
5	P22MCVAC2	Basics of GST (Goods and Service Tax)	<p>COURSE OUTCOMES : The students will get a general understanding of the GST law in the country</p> <ul style="list-style-type: none"> • The students will provide an Insight into practical aspects of GST • The students will equip themselves to become tax practitioners. • The students will be able to calculate GST at different level.



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PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE

Programme Outcomes (B.Sc. Computer Science)

- Graduates will be able to comprehend the basic concepts learnt and apply in real life situations with analytical skills.
- Graduates with acquired skills and enhanced knowledge will be employable / become entrepreneurs or will pursue higher Education.
- Graduates with acquired knowledge of modern software tools will be able to contribute effectively as software engineers.
- Graduates will be able to comprehend the related concepts to Computer Science with Allied papers
- Graduates will be imbued with ethical values and social concerns to ensure peaceful society.

S. No.	Name of the Course	Course Code	Course Outcome
1.	PROGRAMMING IN C AND DATA STRUCTURES	22SCCCS1	To know about the basics of C Programming, Control and Looping Structures and programming with it and know about the basic concepts in Data Structures.
2.	PROGRAMMING IN C LAB	22SCCCS1P	To impart hands-on training for writing a C program using computers.
3.	PROGRAMMING IN JAVA	22SCCCS2	To implement the object-oriented concepts with Java language
4.	PROGRAMMING IN JAVA LAB	22SCCCS2P	To implement the object-oriented concepts with java language
5	PROGRAMMING IN PYTHON	22SCCCS3	To develop programs using functions and pass arguments in python.
6.	PROGRAMMING IN PYTHON LAB	22SCCCS3P	To write, test, and debug simple Python programs
7.	FUNDAMENTALS OF INFORMATION TECHNOLOGY	22SNMECS1	To familiarize the students with the world of IT and IT-enabled services.
8.	DATABASE MANAGEMENT SYSTEMS	22SCCCS4	To impart the basic database concepts, applications, data models, schemas and instances



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9.	DATABASE MANAGEMENT SYSTEMS LAB	22SCCCS4P	To understand the basic concepts and the applications of database systems using MYSQL
10.	WORKING PRINCIPLES OF INTERNET	22SNMECS2	To teach the basics of the World Wide Web
11.	FUNDAMENTALS OF ALGORITHMS	22SCCCS5	To study the fundamentals of algorithms
12.	COMPUTER NETWORKS	22SCCCS6	To describe the general principles of Computer Networks
13.	DIGITAL ELECTRONICS AND MICROPROCESSOR	22SCCCS7	To impart knowledge about the basics of Digital Systems
14.	DIGITAL ELECTRONICS AND MICROPROCESSOR LAB	22SCCCS5P	To have hands-on experience with digital electronics concepts
15.	ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS	22SMBECS1A	To study about the basic concepts in Artificial intelligence and reasoning
16.	COMPUTR GRAPHICS	22SMBECS1B	To understand the basic objectives and scope of computer graphics.
17.	WEB TECHNOLOGY	22SSBECS1	To understand the basic concepts related to HTML, JavaScript and VB script.
18.	OPERATING SYSTEMS	22SCCCS8	To understand the basics of Operating systems and their working
19.	PROGRAMMING IN PHP	22SCCCS9	To know about various constructs available in PHP
20.	PROGRAMMING IN PHP LAB	22SCCCS6P	To acquire the programming experience in PHP
21.	SOFTWARE ENGINEERING	22SMBECS2A	To impart knowledge in the life cycle of software engineering
22.	BIG DATA ANALYTICS	22SMBECS2B	To explore the fundamental concepts of big data analytics
23.	PROJECT	22SCSPW	The candidate shall be required to take up a Project Work by group or individual and submit it at the end of the final year.
24	MOBILE APPLICATION DEVELOPMENT	22SSBECS2	To understand about user Interfaces for the Android platform and to familiarize of the Android Studio development tool.



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Programme Outcomes (B.C.A.)

- Graduates will be able to comprehend the basic concepts learnt and apply in real life situations with analytical skills.
- Graduates with acquired skills and enhanced knowledge will be employable / become entrepreneurs or will pursue higher Education.
- Graduates with acquired knowledge of modern software tools will be able to contribute effectively as software engineers.
- Graduates will be able to comprehend the related concepts to Computer Science with Allied papers
- Graduates will be imbued with ethical values and social concerns to ensure peaceful society.

S. No.	Name of the Course	Course Code	Course Outcome
1.	PROGRAMMING IN C AND DATA STRUCTURES	22SCCCA1	To know about the basics of C Programming, Control and Looping Structures and programming with it and know about the basic concepts in Data Structures.
2.	PROGRAMMING IN C LAB	22SCCCA1P	To impart hands-on training for writing a C program using computers.
3.	PROGRAMMING IN JAVA	22SCCCA2	To implement the object-oriented concepts with Java language
4.	PROGRAMMING IN JAVA LAB	22SCCCA2P	To implement the object-oriented concepts with java language
5.	PROGRAMMING IN PYTHON	22SCCCA3	To develop programs using functions and pass arguments in python.
6.	PROGRAMMING IN PYTHON LAB	22SCCCA3P	To write, test, and debug simple Python programs
7.	FUNDAMENTALS OF INFORMATION TECHNOLOGY	22SNMECA1	To familiarize the students with the world of IT and IT-enabled services.
8.	DATABASE MANAGEMENT SYSTEMS	22SCCCA4	To impart the basic database concepts, applications, data models, schemas and instances
9.	DATABASE MANAGEMENT SYSTEMS LAB	22SCCCA4P	To understand the basic concepts and the applications of database systems using MYSQL
10.	WORKING PRINCIPLES OF INTERNET	22SNMECA2	To teach the basics of the World Wide Web



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11.	FUNDAMENTALS OF ALGORITHMS	22SCCCA5	To study the fundamentals of algorithms
12.	COMPUTER NETWORKS	22SCCCA6	To describe the general principles of Computer Networks
13.	DIGITAL ELECTRONICS AND MICROPROCESSOR	22SCCCA7	To impart knowledge about the basics of Digital Systems
14.	DIGITAL ELECTRONICS AND MICROPROCESSOR LAB	22SCCCA5P	To have hands-on experience with digital electronics concepts
15.	ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS	22SMBECA1A	To study about the basic concepts in Artificial intelligence and reasoning
16.	COMPUTR GRAPHICS	22SMBECA1B	To understand the basic objectives and scope of computer graphics.
17.	WEB TECHNOLOGY	22SSBECA1	To understand the basic concepts related to HTML, JavaScript and VB script.
18.	OPERATING SYSTEMS	22SCCCA8	To understand the basics of Operating systems and their working
19.	PROGRAMMING IN PHP	22SCCCA9	To know about various constructs available in PHP
20.	PROGRAMMING IN PHP LAB	22SCCCA6P	To acquire the programming experience in PHP
21.	SOFTWARE PROJECT MANAGEMENT	22SMBECA2A	To be familiar with the different methods and techniques used for project management.
22.	E-COMMERCE TECHNOLOGIES	22SMBECA2B	To study ecommerce concepts with case studies
23.	PROJECT	22SCAPW	The candidate shall be required to take up a Project Work by group or individual and submit it at the end of the final year.
24.	INTERNET OF THINGS	22SSBECA2	To learn the concepts of IoT and its protocols.

Programme Outcomes (M.Sc., Computer Science)

- An ability to apply mathematical model, algorithmic principles, and computer science theory in the design of real-time applications
- Get expertise in developing smart applications
- Apply computer science theory and software development concepts to construct computing-based solutions.
- Discover the opportunity for entrepreneurship and create and add value for



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the betterment of an individual and society at large.

- Use research-based knowledge and research methods to design, analyze, and interpret data and synthesize information to provide valid findings to serve the community

S. No.	Name of the Course	Course Code	Course Outcome
1.	MATHEMATICAL FOUNDATION FOR COMPUTER SCIENCE	P22CSCC11	Ability to apply mathematical logic to solve problems.
2.	PROBLEM SOLVING USING PYTHON AND R	P22CSCC12	To understand Computational thinking using Python.
3.	ADVANCED JAVA PROGRAMMING	P22CSCC1A	To deepen student's programming skills by analyzing the real world problem in a programmer's point of view.
4.	WEB TECHNOLOGIES	P22CSCC1B	To provide fundamental concept of Internet, JavaScript, XML, JSP, ASP with a view to developing professional software development skills.
5.	PROBLEM SOLVING USING PYTHON AND R	P22CSCC1P	To develop Python and R Programming Skills
6.	ADVANCED JAVA PROGRAMMING	P22CSCC1AP	To develop java Programming Skills
7.	WEB TECHNOLOGIES	P22CSCC1BP	To develop Web Application Programming Skills
8.	WEB SERVICES	P22CSE1A	To enable the student to be familiar with distributed services, XML and web services.
9.	MICROPROCESSOR AND MICROCONTROLLERS	P22CSE1B	To realize the 8086 Microprocessor Architecture, Operations, Programming,
10.	COMPUTER GRAPHICS AND MULTIMEDIA	P22CSE1C	To understand the graphics hardware And get knowledge about Raster Graphics for drawing 2_D primitives
11.	SECURITY IN COMPUTING	P22CSVAC1	Understand various threats Understand Security in operating systems, database and networks
12.	ADVANCED DATABASE MANAGEMENT SYSTEM	P22CSCC21	Understand Relational Model Get knowledge about SQL as well as NoSql and understand transaction management
13.	COMPILER DESIGN	P22CSCC22	Define the design and intrinsic functioning of compilers Identify the purpose and functions of phases of the compiler



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14.	DISTRIBUTED TECHNOLOGIES	P22CSCC2A	To provide ideas to be able to compare the architectures of distributed systems
15.	MOBILE APPLICATION DEVELOPMENT	P22CSCC2B	A good understanding on the Mobile Environment. To Understand the Features of Android
16.	ADVANCED DATA BASE MANAGEMENT SYSTEM	P22CSCC2P	To implement Advanced Database System concepts
17.	DISTRIBUTED TECHNOLOGIES	P22CSCC2AP	To develop JEE, ASP based distributed programs for understanding.
18.	MOBILE APPLICATION DEVELOPMENT	P22CSCC2BP	To develop Android based Mobile applications.
19.	E-COMMERCE TECHNOLOGIES	P22CSE2A	Get knowledge about e-commerce framework. Explain electronic system for payment.
20.	OPEN SOURCE SYSTEMS	P22CSE2B	To understand open-source licenses and learn the implications for users, developers and the software community.
21.	GREEN COMPUTING	P22CSE2C	Understand Green IT fundamentals Get knowledge about green assets and models Understand Grid framework
22.	FUNDAMENTALS OF INFORMATION TECHNOLOGY	P22CSNME1	To understand the revolution in computers and communications To know about various application software
23.	BIG DATA ANALYTICS	P22CSCC31	To impart knowledge in Fundamentals of Big Data Analytics.
24.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	P22CSCC32	To understand the problem-solving methods using state space search
25.	USER INTERFACE DESIGN AND DEVELOPMENT	P22CSCC3A	To learn new emerging web technologies.
26.	CRYPTOGRAPHY AND NETWORK SECURITY	P22CSCC3B	To describe various terminologies in network security.
27.	MACHINE LEARNING	P22CSCC3P	To develop machine learning programs to illustrate real life examples



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28.	USER INTERFACE DESIGN AND DEVELOPMENT	P22CSC C3AP	To develop programs for front-end web development.
29.	CRYPTOGRAPHY AND NETWORK SECURITY	P22CSCC3BP	To develop programs to demonstrate Cryptography and network security algorithms.
30.	SWARM INTELLIGENCE	P22CSE3A	Understand basic concepts of self-organization, meta heuristic, and explain popular swarm intelligent algorithms.
31	BLOCK CHAIN TECHNOLOGY	P22CSE3B	To understand the history, types and applications of Blockchain
32.	DIGITAL IMAGE PROCESSING	P22CSE3C	To study the various concepts, methods and algorithms of digital image processing
33.	FUNDAMENTALS OF INTERNET	P22CSNME2	To study the basic concepts of Internet
34.	AGILE TECHNOLOGIES	P22CSCC41	To provide students with a theoretical as well as practical understanding of agile software development practices and how small teams can apply them to create high-quality software.
35.	CLOUD COMPUTING	P22CSCC42	To be Familiar with the Cloud Architecture
36.	TECHNOLOGY INNOVATION AND SUSTAINABLE ENTERPRISE	P22CSIBC	Provide information, frameworks, and tools for identifying and pursuing sustainable business opportunities
37.	PROJECT	P22CSPW	Each candidate shall be required to take up a Project Work and submit it at the end of the final year.
38.	FOUNDATIONS OF IOT	P22CSVAC2	To understand the concepts of Internet of Things

Programme Outcomes (M.Sc., Information Technology)

- Understand how technical developments can be achieved.
- Enhance the development of critical thinking, code writing skills and configuring the technical tools.
- Prepares students for a wide variety of careers in IT related all industries with research bent of mind.
- Able to develop strong analytical skills, critical thinking and experimental skills.
- Understand how technological advances impact society and the social, legal, ethical and cultural ramifications of computer technology and their usage.

S. No.	Name of the Course	Course Code	Course Outcome
1.	Object Oriented System Development	P22ITCC11	To introduce the concept of Object-oriented design and understand the



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			Fundamentals of OOSD life cycle.
2.	Advanced Database Management Systems	P22ITCC12	Acquire Knowledge of Database Models, Applications of Database
3.	Web Programming	P22ITCC1A	To introduces the concepts of PHP, MySQL, HTML 5, CSS.
4.	Advanced Data Structures	P22ITCC1B	To provide the knowledge of advanced data structures and their implementations
5.	Advanced Database Management Systems Lab	P22ITCC1P	To understand about SQL and develop the programs for processing the Database.
6.	Web Programming Lab	P22ITCC1AP	To develop Web programming skills.
7.	Advanced Data Structures Lab	P22ITCC1BP	To implement Data Structures using C/C++/Java
8.	E-Commerce	P22ITE1A	To acquire the basic concept of E-Commerce
9.	Open Source Technologies	P22ITE1B	Understand the difference between open-source software and commercial software.
10.	Green Computing	P22ITE1C	Study the concepts related to Green IT
11.	Multimedia And Animation	P22ITVAC1	It introduces how multimedia can be used in various application areas.
12.	Advanced Operating Systems	P22ITCC21	To study the characteristics of Multiprocessor and Multi computer
13.	Foundations of Information Security	P22ITCC22	Understand the conceptual foundation of information security awareness
14.	J2EE Technologies	P22ITCC2A	To design and develop web based and enterprise applications using J2EE.
15.	Data Mining Technologies and Tools	P22ITCC2B	Introduce the basic concepts of data mining and various data mining techniques like classification, clustering, and association rule mining



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16.	Advanced Operating Systems Lab	P22ITCC2P	To understand Advanced Operating System using C/C++ programs.
17.	J2EE Technologies	P22ITCC2AP	To understand Distributed Technology skills using J2EE.
18.	Data Mining Technologies and Tools Lab	P22ITCC2BP	To implement data mining techniques using C/C++
19.	Wireless Networks	P22ITE2A	Understand the basic WSN technology and supporting protocol
20.	Big Data Framework	P22ITE2B	To understand the basic concepts of Big data.
21.	Internet of Things	P22ITE2C	Understand the basic concepts of IoT, IoT Protocols and design methodology.
22.	Fundamentals of Information Technology	P22ITNME1	To understand the revolution in computers and communications
23.	Principles of Compiler Design	P22ITCC31	To get familiar with the structure of the compilation process
24.	Problem Solving using R	P22ITCC32	Introduce the basic features of R Programming.
25.	Distributed Technologies	P22ITCC3A	To introduce the technologies behind the distributed computing environment
26.	Machine Learning Techniques	P22ITCC3B	To Learn about Machine Intelligence and Machine Learning applications
27.	Problem Solving using R	P22ITCC3P	To develop programs for solving real world problems using R
28.	Distributed Technologies	P22ITCC3AP	To develop JEE, ASP based distributed programs for understanding
29.	Machine Learning Techniques	P22ITCC3BP	To develop machine learning programs to illustrate real life examples
30.	Web Services	P22ITE3A	To Understand the Basic Virtual Machines Concepts
31.	Software Metrics	P22ITE3B	To gain basic knowledge about metrics,



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			measurement theory and related terminologies
32.	Parallel Computing	P22ITE3C	To understand the technologies enabling parallel computing
33.	Fundamentals of Internet	P22ITNME2	To understand the revolution in Internet Technology
34.	Software Project Management	P22ITCC41	To understand the Software Project Planning and Evaluation techniques
35.	Cloud Computing	P22ITCC42	To understand the broad perspective of cloud architecture and model
36.	Technology Innovation and Sustainable Enterprise	P22ITIBC	Provide information, frameworks, and tools for identifying and pursuing sustainable business opportunities
37.	Project	P22ITPW	Each candidate shall be required to take up a Project Work and submit it at the end of the final year
38.	Cyber Security Fundamentals	P22ITVAC2	To understand the Basic Concepts in Cyber Security

Programme Outcomes (PGDCA – Post Graduate Diploma in Computer Applications)

- Aspiring for higher degrees and research work in computers.
- Attaining specialization in specific domains of Computer Applications.
- Applying Knowledge in Software Development/ IT Sectors
- Applying skilled knowledge in Banking, Insurance, Teaching and other services in Corporate and Government sectors.

S. No.	Name of the Course	Course Code	Course Outcome
1.	Programming with C++	P16DCA11	To impart Object-Oriented Programming Skills using C++
2.	Operating Systems	P16DCA12	To present the fundamental aspects of various managements in an operating systems
3.	Computer Organization & Architecture	P16DCA13	To understand the principles of digital computer logic circuits and their design.
4.	C++Programming Lab	P16DCA14P	To get hand-s on experience in developing Programs using C++.



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5.	Shell Programming Lab	P16DCA15P	To get hand-s on experience in developing UNIX Shell programs.
6.	Programming in Java	P16DCA21	To impart sound knowledge in Object-Oriented Programming skills in Java.
7.	Database System	P16DCA22	To impart knowledge about relational database and distributed database.
8.	Computer Graphics	P16DCA23	To present concepts on basic graphical techniques, raster graphics, two-dimensional and three-dimensional graphics.
9.	Java Programming Lab	P16DCA24P	To get hand-s on experience in developing Programs using Java.
10.	Database System Lab	P16DCA25P	To get hand-s on experience in developing queries and designing forms using RDBMS software.



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PG AND RESEARCH DEPARTMENT OF ECONOMICS

Programmes offered:

- B.A. Economics (Aided)
- M.A. Economics (Unaided)
- Ph.D.

Programme outcome - Bachelor of Arts (Economics)

Demonstrate a detailed knowledge and understanding of selected fields of study in core disciplines in the humanities, social sciences and languages ; Apply critical and analytical skills and methods to the identification and resolution of problems within complex changing social contexts.

Programme Specific outcome

Students will be able to describe how economic trade-offs and social values impact public / private policy. Students will be able to explain the function of markets and prices as allocative mechanisms. Students will be able to explain how fiscal and monetary policies can be used to..

Sl.No.	Subject Code	Name of the Course	Course Outcomes
1.	22ACCEC1	Micro Economics –I	<ul style="list-style-type: none"> ➤ Understand and analyse the traditional and modern definitions of Micro Economics ➤ Analyse the impact of economic events on markets. ➤ Inspect the behavior of consumers in terms of the demand for products. ➤ Examine the performance of firms under different market situations. ➤ Evaluate the elements affecting production and costs. ➤ Apply the various concepts of economic theory on the recent economic events.
2.	22ACCEC2	Tamil Nadu Economy	<ul style="list-style-type: none"> ➤ Recall the demographic features of Tamil Nadu. ➤ Outline the agricultural and rural development situation and policies of Tamil Nadu. ➤ Elucidate the industrial development situation of Tamil Nadu. ➤ Analyse the role of State Finance and Development Programmes in the Growth of TamilNadu. ➤ Evaluate the General Performance of Tamil Nadu economy.



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			<ul style="list-style-type: none"> ➤ Understand the various current events related to Tamil Nadu economy and view them in a policy perspective.
3.	22AFACEC1	Principles of Commerce (First AC – I)	<ul style="list-style-type: none"> ➤ State the fundamentals of Commerce. ➤ Discuss the fundamentals of banking and insurance. ➤ Examine the role of advertisement and media. ➤ Analyse the role of finance in balanced regional development. ➤ Assess the principles of management. ➤ Become cognizant of the various recent developments in the principles of commerce and management.
4.	22ACCEC3	Micro Economics- II	<ul style="list-style-type: none"> ➤ Understand the factors involved in price determination under perfect competition. ➤ Asses the price determination factors in monopoly. ➤ Evaluate the methods of fixing prices under imperfect competition. ➤ Analyse the impact of rent and wages with theories. ➤ Understand the interpretations of the various postulates of profit and interests. ➤ Become cognizant of the various recent developments in Microeconomic theory and practice.
5.	22ACCEC4	Indian Economic Development	<ul style="list-style-type: none"> ➤ Analyse the basic issues in growth and development with a historical and general perspective. ➤ Gain a comparative Perspective on key Issues related to Poverty, Inequality, Education, Health and Gender. ➤ Evaluate the Policies and Performance of Agriculture and Industry. ➤ Identify various Economic Reforms related to the primary and secondary Sectors. ➤ Determine and analyse the Female Labour Force Participation in India. ➤ Become cognizant of the recent developments in Indian Economic development and policy.
6.	22AFACEC2	Economic Statistics (First AC – II)	<ul style="list-style-type: none"> ➤ Examine the nature and scope of statistics. ➤ Summarize the Difference Between classification and Tabulation. ➤ Solve problems related to Arithmetic mean, Median and Mode. ➤ Solve problems related to various measures of dispersion.



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			<ul style="list-style-type: none"> ➤ Learn to evaluate the Karl Pearson, Bowley and Kelly's Measures of Skewness. ➤ Become cognizant of the recent developments in Economic Statistics
7.	22ACCEC5	Macro Economics –I	<ul style="list-style-type: none"> ➤ Analyse the characteristics of Macro Economics ➤ Evaluate the measures of National Income ➤ Appreciate the implications of Classical theory of employment. ➤ Understand the importance of effective demand. ➤ Learn the applicability of consumption theories in real life situations. ➤ Become updated about the various contemporary developments in Macroeconomic theory.
8.	22ACCEC6	Money and Banking	<ul style="list-style-type: none"> ➤ Understand the prime factors and concepts of monetary economics and banking theory. ➤ Appreciate simple articles related to monetary economics and banking theory. ➤ Understand current events and concepts related to monetary economics and banking theory. ➤ Acknowledge the importance of monetary phenomenon in the economy. ➤ Understand the role and function of RBI. ➤ Become aware of the various contemporary theoretical and empirical developments in Money and Banking.
9.	22ASACEC1	Statistical Methods (Second AC – I)	<ul style="list-style-type: none"> ➤ Obtain knowledge on the statistical concepts, methods & techniques related to Economics. ➤ Understand the significance and applicability of statistical analysis in Economics. ➤ Gain knowledge on statistical analysis and hypothesis testing. ➤ Identify the type of statistical situation to which different distributions and statistical tools can be applied. ➤ Develop skills to carry out statistical analysis works. ➤ Become cognizant of the recent developments in Statistical Methods.
10.	22ANMEHI1	Freedom Movement in India (NME– I)	<ul style="list-style-type: none"> ➤ Illustrate the Emergence of Indian Nationalism. ➤ Understand the growth of Nationalism in India.



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			<ul style="list-style-type: none"> ➤ Recognizes the Struggle for Independence and the proposals given by the British to Indians. ➤ Explores the efficiency of India on the threshold of Independence. ➤ Illustrate the various incidents and prominent leaders who worked towards the freedom.
11.	22ACCEC7	Macro Economics –II	<ul style="list-style-type: none"> ➤ Evaluate the relationship between GNP and the standard of living of a nation. ➤ Learn about the rationale for the study of national income accounts. ➤ Understand the various theories of Classical and Keynesian school of thought. ➤ Become familiar with the psychology of consumers with respect to consumption pattern. ➤ Become aware of fiscal and monetary policies and their relevance to Indian economy. ➤ Become cognizant of the various recent developments in Macroeconomic theory and practice.
12.	22ACCEC8	Monetary Economics	<ul style="list-style-type: none"> ➤ Understand how value of money is determined. ➤ Gain knowledge about the derivation of Philips curve from aggregate supply curve. ➤ Understand the theories of demand for money. ➤ Understand the importance of exchange rate. ➤ Gain knowledge about Financial Market. ➤ Become cognizant of the various recent developments in Monetary Economics.
13.	22ASACEC2	Mathematics for Economics (Second AC – II)	<ul style="list-style-type: none"> ➤ Understand basic concepts of mathematics and its application in economics. ➤ Analyze the relevance of the types of matrices and its use in solving simultaneous equations. ➤ Gain knowledge of the rules of differentiation and its economic applications. ➤ Optimize the single variable functions in Economics. ➤ Gain knowledge of the production functions, linear programming and input output analysis. ➤ Become cognizant of the various recent developments in Mathematical Economics.



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14.	22ANMEH11	Working of Indian Constitution (NME – II)	<ul style="list-style-type: none"> ➤ Understand the historical background of Indian constitution.. ➤ Understand the powers and function of the Union Executive. ➤ Illustrate the powers and function of the state Government. ➤ Know the Indian Judiciary system in India ➤ Study the federal system of states.
15.	16ACCEC9	Public Finance	<ul style="list-style-type: none"> ➤ Examine the role of public finance in the economy. ➤ Distinguish between tax revenue and non-tax revenue. ➤ Sketch out the shifting and incidence of taxation. ➤ Explain the causes and effects of public debt. ➤ Evaluate the Recent Finance Commission and its report. ➤ Become cognizant of the recent developments in Public Finance.
16.	16ACCEC10	Economics of Growth and Development	<ul style="list-style-type: none"> ➤ Examine the Neo-classical growth models. ➤ Explain the various growth and development models. ➤ Interpret the social and institutional aspects of development. ➤ Explain the various theories of development. ➤ Become cognizant of the contemporary approaches to growth and development.
17.	16ACCEC11	International Economics	<ul style="list-style-type: none"> ➤ Examine Classical and Neo-classical Theories of International trade. ➤ Explain the various aspects of free trade and protection. ➤ Distinguish between balance of trade and Balance of Payments. ➤ Understand the system of foreign exchange and theories associated with it. ➤ Evaluate the functions of various international economic institutions. ➤ Become cognizant of the recent developments in International trade and economics.
18.	16ACCEC12	History of Economic Thought	<ul style="list-style-type: none"> ➤ Understand pre – classical, neo- classical schools of economic thought. ➤ Understand Austrian and Institutional schools of economic thought. ➤ Gain knowledge about socialistic school of thought.



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			<ul style="list-style-type: none"> ➤ Understand historical, Keynesian and welfare schools of economic thought. ➤ Gain the knowledge about Indian economic thought. ➤ Gain knowledge about contemporary economic thought.
19.	16AMBEEC1	Capital Market	<ul style="list-style-type: none"> ➤ Understand capital market and its origin. ➤ Understand the various sources of finance. ➤ Gain the knowledge importance corporate securities. ➤ Understand the importance of stock exchange market. ➤ Gain the knowledge about public issues of shares. ➤ Gain the knowledge about contemporary Developments in theory and practice of capital market.
20.	16RSBE 6:2	Reporting and Editing (SBE - I)	<ul style="list-style-type: none"> ➤ Equip students with the skills to gather information, conduct interviews. ➤ Write accurate news stories, and edit them for clarity, style, and factual correctness, enabling them to produce publishable content across various media platforms. ➤ Understand news values, proficiently conducting interviews. ➤ Write different types of news stories. ➤ Apply ethical reporting standards, identifying and correcting factual errors, editing for grammar and style, and adapting content for different media formats.
21.	16RSBE 6:3	Public Relations (SBE – II)	<ul style="list-style-type: none"> ➤ Equip students with the ability to effectively communicate messages tailored to specific audiences. ➤ Analyze public perception, develop strategic communication campaigns. ➤ Manage organizational reputation through various media channels. ➤ Critically evaluate information, and apply ethical principles in public relations practices, all while demonstrating strong writing, presentation, and critical thinking skills.
22.	16ACCEC13	Agricultural Economics	<ul style="list-style-type: none"> ➤ Find the role of agriculture in Indian Economy, causes for low productivity and measures to improve productivity. ➤ Demonstrate the structural and institutional changes in agriculture.



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			<ul style="list-style-type: none"> ➤ Identify the sources of agricultural finance. ➤ Analyze the recent state of agricultural marketing and price policy. ➤ Explain the Government measures for unemployment and agricultural labourers. ➤ Receive an understanding of the recent developments in Agricultural Economics.
23.	16ACCEC14	Human Resource Management	<ul style="list-style-type: none"> ➤ Find evolution, nature and significance of human capital. ➤ Demonstrate the methods of human capital for economic growth and elimination of social discrimination. ➤ Identify the OBJECTIVES, need and problems in planning. ➤ Examine the role of women in economic development. ➤ Assess the work participation rate of male and female. ➤ Understand the recent developments in Human Resource Management.
24.	16ACCEC12	Environmental Economics	<ul style="list-style-type: none"> ➤ Recall the concepts, theories, relationship with other sciences and conservation of natural resources. ➤ Illustrate the Pareto Theory and environmental quality as a public good. ➤ Apply laws for environmental protection. ➤ Analyze the pollution Cost and benefit of pollution control. ➤ Explain the role of government and voluntary organizations in pollution control. ➤ Understand the recent developments in Environmental Economics.
25.	16AMBEEC2	Entrepreneurship Development	<ul style="list-style-type: none"> ➤ Asses the opportunities of entrepreneurship in India. ➤ Outline the significance of MSME'S, women entrepreneurship. ➤ Get a basic idea about the various promotional agencies. ➤ Synthesize the policy regulations and estimations of cost and price. ➤ Calculate and frame project proposals. ➤ Understand the recent developments in Entrepreneurship Development.
26.	16AMBEEC3	Economics of Insurance	<ul style="list-style-type: none"> ➤ Recall the meaning, nature and importance of insurance. ➤ Understand the meaning of risk and its management.



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			<ul style="list-style-type: none"> ➤ Discuss the features of life and health insurance. ➤ Trace the growth of insurance business in India. ➤ Analyze the strategies of insurance marketing. ➤ Evaluate the insurance acts in India. ➤ Become cognizant of the contemporary developments in Economics of Insurance.
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Programme outcomes - Master of Arts (Economics)

To develop the ability to explain core economic terms, concepts and theories. To Identify key macroeconomic indicators and measures of economics change, growth, and development. To Identify and discuss the key concepts underlying comparative advantage. To Identify and explain major types of market failures.

Sl.No.	Subject Code	Name of the Course	Course Outcomes
1.	P22ECCC11	Micro Economics- I	<ul style="list-style-type: none"> <input type="checkbox"/> Learn Demand Analysis and theory of price formation. <input type="checkbox"/> Get introduced to the concepts of Production function, Theory of Production and Costs. <input type="checkbox"/> Understand Price and Output Determination under the perfect competition and monopoly. <input type="checkbox"/> Understand Monopolistic Competition and Oligopoly Models of price and output determination. <input type="checkbox"/> Become familiarized to the different theories of the Firm. <input type="checkbox"/> Become cognizant of the contemporary developments in Microeconomic Theory.
2.	P22ECCC12	Macro Economics –I	<ul style="list-style-type: none"> <input type="checkbox"/> Understand the basic concepts of Macroeconomics. <input type="checkbox"/> Illustrate the components of National Income Accounting. <input type="checkbox"/> Explain the theories of Consumption function. <input type="checkbox"/> Examine the determinants of Investment. <input type="checkbox"/> Analyze the simultaneous equilibrium in goods market and money market with the help of IS and LM curves. <input type="checkbox"/> Become cognizant of the contemporary developments in Macroeconomic Theory.
3.	P22ECCC13	Monetary Economics	<ul style="list-style-type: none"> <input type="checkbox"/> Understand the operation of Demand of Money



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			<ul style="list-style-type: none"> <input type="checkbox"/> Understand the operation of Supply of Money <input type="checkbox"/> Explain the theory of inflation <input type="checkbox"/> Analyze the Post-Keynesian theory for Demand for Money <input type="checkbox"/> Understand the nature and way of operation of Financial Market <input type="checkbox"/> Become cognizant of the contemporary developments in Monetary Economics
4.	P22ECCC1B	Energy Economics	<ul style="list-style-type: none"> <input type="checkbox"/> Have an understanding of origin, scope and nature of natural resources and energy resources. <input type="checkbox"/> Learn the role of energy in economic development of a nation. <input type="checkbox"/> Understand the impact of energy consumption and production on environment. <input type="checkbox"/> Become familiarised to Energy Planning and its Management <input type="checkbox"/> Have an understanding of structure of energy markets and patterns of energy production and consumption of India
5.	P22ECE1A	Environmental Economics	<ul style="list-style-type: none"> <input type="checkbox"/> Get a detailed understanding of environmental economics including key principles and methods. <input type="checkbox"/> Use economic techniques to analyse environmental problems and assess environmental policies <input type="checkbox"/> Develop research skills in the field of environmental economics. <input type="checkbox"/> Discuss various approaches and methods developed for valuing environmental goods and services. <input type="checkbox"/> Analyse the contemporary environmental discourse from an economist's point of view. <input type="checkbox"/> Explore the contemporary developments in Environmental Economics
6.	P22ECVAC1	Calculation of Income Tax	<ul style="list-style-type: none"> <input type="checkbox"/> Get cognizant of the scope and importance of Income tax. <input type="checkbox"/> Get introduced to the illustration of income tax in Budgets. <input type="checkbox"/> Become familiarised to the calculation of personal income tax and tax for HUF. <input type="checkbox"/> Learn the calculation of corporate tax. <input type="checkbox"/> Develop the skills for filing e-mode of income tax with latest slab limit in the budget.



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7.	P22ECCC21	Micro Economics- II	<ul style="list-style-type: none"> <input type="checkbox"/> Do welfare economics without use of marginal condition. <input type="checkbox"/> Understand the intuition underlying the main welfare theorems both in general and partial equilibrium analysis. <input type="checkbox"/> Define risky outcomes and describe how they are assessed. <input type="checkbox"/> Understand explain expected utility and risk preference. <input type="checkbox"/> Apply knowledge of risk and insurance to explain how systematic risk makes risk pools difficult and destroys private markets for insurance. <input type="checkbox"/> Understand the recent developments in Microeconomic theory and practice.
8.	P22ECCC22	Macro Economics –II	<p>Understand how economic indicators like GDP are used to assess the state of the economy.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Understand that economic growth is a recent relatively phenomenon, and identify key institutional factors that contribute to economic growth. <input type="checkbox"/> Explain and graphically illustrate market equilibrium, surplus and shortage. <input type="checkbox"/> Understand about the macro equilibrium in the income-expenditure model. <input type="checkbox"/> Become aware of policy implications of Keynesian economics. <input type="checkbox"/> Be cognizant to recent developments in Macroeconomic theory and practice.
9.	P22ECCC23	Mathematical Methods for Economic Analysis	<p>Find the applications of mathematics in Demand and supply functions, Cost and Revenue functions, and Consumption and Multivariable functions.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Explain the use of Derivatives in Economics. <input type="checkbox"/> Identify the use of integration in calculating Producer surplus, Consumer surplus, Cost and Revenue. <input type="checkbox"/> Examine the matrix operation and the use of Cramer rules to solve system of equations. <input type="checkbox"/> Explain the applications of Linear Programming techniques. <input type="checkbox"/> Introduce the contemporary developments in the Mathematical Methods for Economic Analysis.



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10.	P22ECCC2B	Labour Economics	<p>Demonstrate an understanding of basic labour economics theory, including labour market structures and wage determination.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Form a well theoretical knowledge of wage determination. <input type="checkbox"/> Comprehend and assess the different approaches to Labour Migration trends & effects. <input type="checkbox"/> Understand the labour unions in India and able to comprehend the structure, pattern and growth of labour unions. <input type="checkbox"/> Construct, defend and analyse important labour policy issues.
11.	P22ECE2B	Computer Applications in Economics	<ul style="list-style-type: none"> <input type="checkbox"/> Analyse the components of modern computer <input type="checkbox"/> Have an understanding of the application of operating systems in Economics <input type="checkbox"/> Understand the use of MS office in Economic analysis <input type="checkbox"/> Examine the various software packages related to Economics <input type="checkbox"/> Understand the Application of internet in Economics <input type="checkbox"/> Recent developments related to Computer Applications in Economics
12.	P22HINME1	The Constitution of India	<ul style="list-style-type: none"> <input type="checkbox"/> Evaluate the importance of Fundamental Rights and Duties. <input type="checkbox"/> Illustrate the students working of union executive. <input type="checkbox"/> Understand the judicial system in India <input type="checkbox"/> Evaluate the powers of state Government. <input type="checkbox"/> Understand the federal system of administration in India.
13.	P22ECCC31	Research Methodology	<ul style="list-style-type: none"> <input type="checkbox"/> Identify the appropriate methods to choose in research. <input type="checkbox"/> Summarize the different methods and various tools used in data collection. <input type="checkbox"/> Apply writing of report for an educational project. <input type="checkbox"/> Analyse the concept of variables and hypothesis, their nature importance and types. <input type="checkbox"/> Explain the term population sample and describe the steps involved in the process of sampling. <input type="checkbox"/> Summarize the various contemporary developments in Research Methodology.



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14.	P22ECCC32	Statistics	<input type="checkbox"/> Calculate and interpret the Univariate analysis. <input type="checkbox"/> <input type="checkbox"/> Compare the relation between regression and correlation coefficients. <input type="checkbox"/> <input type="checkbox"/> Apply the theory of probability in economics. <input type="checkbox"/> <input type="checkbox"/> Examine the sampling distribution. <input type="checkbox"/> <input type="checkbox"/> Construct the index numbers. <input type="checkbox"/> <input type="checkbox"/> Understand the recent developments in Statistics. <input type="checkbox"/>
15.	P22ECCC33	Indian Economy	<input type="checkbox"/> Identify the causes and impact of population growth. <input type="checkbox"/> <input type="checkbox"/> Summarize the problems of poverty and unemployment <input type="checkbox"/> <input type="checkbox"/> Sketch out the Indian and Global Economy <input type="checkbox"/> <input type="checkbox"/> Analyze the agriculture and industrial sectors as the foundation of economic growth <input type="checkbox"/> <input type="checkbox"/> Evaluate the importance of planning undertaken by the government of India, have knowledge on various objectives, achievements as the foundation of the ongoing planning and economic reforms taken by the government <input type="checkbox"/> <input type="checkbox"/> Cultivate an idea about the contemporary developments in Indian Economy <input type="checkbox"/>
16.	P22ECCC3B	Agricultural Economics	<input type="checkbox"/> Know the role of agriculture in economic development. <input type="checkbox"/> Know the physical and economic optimum point of output. <input type="checkbox"/> Analyse agricultural production function using programming techniques. <input type="checkbox"/> Estimate the marketing efficiency. <input type="checkbox"/> Identifying the role of different organizations in international trade and the share of agriculture in total export.
17.	P22ECE3B	Mathematical Economics	<input type="checkbox"/> Understand the basic knowledge of sets' theory. <input type="checkbox"/> Identify the techniques of mathematical methods in the theory of consumer. <input type="checkbox"/> Acquire knowledge on the application of mathematical methods in the theory of firm. <input type="checkbox"/> Understand market equilibrium and application of mathematical methods in it. <input type="checkbox"/> Apply mathematical methods and techniques in theory of games.



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18.	P22MCNME2	Management concepts	<input type="checkbox"/> Understand the historical backdrop and fundamentals of Management thoughts vital for understanding the conceptual frame work of Management as a discipline. <input type="checkbox"/> Know various concepts of planning, Decision making and controlling to help solving managerial problems. <input type="checkbox"/> Get Knowledge on motivation theories. <input type="checkbox"/> Comprehend the theories of management & evolution of management thought. <input type="checkbox"/> Run the business effectively by applying the management theories. <input type="checkbox"/> Act as an effective manager by applying the controlling techniques.
19.	P22ECCC41	International Business	<input type="checkbox"/> Understand special features of international business. <input type="checkbox"/> Understand the importance of international organizations in the field of foreign trade. <input type="checkbox"/> Gain the knowledge about foreign trade documents. <input type="checkbox"/> Understand foreign trade procedures. <input type="checkbox"/> Gain the knowledge about export arbitration. <input type="checkbox"/> Get an understanding about the recent theoretical and empirical developments in International Business.
20.	P22ECCC42	Industrial Economics	<input type="checkbox"/> Understand pattern and structures of industrial location. <input type="checkbox"/> Understand market structure of industrial products. <input type="checkbox"/> Gain the knowledge of industrial finance, balance sheet. <input type="checkbox"/> Understand industrial labour employment dimensions. <input type="checkbox"/> Gain the knowledge of net present value and internal rate return. <input type="checkbox"/> Get an exposure to the recent theoretical and empirical developments in International Business
21.	P22ECIBC	Entrepreneurship	<input type="checkbox"/> Understand the role of entrepreneurship in Economic Development. <input type="checkbox"/> Become familiarised various theories of motivation. <input type="checkbox"/> Identify and evaluate business opportunities.



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			<input type="checkbox"/> Understand how to prepare a business plan. <input type="checkbox"/> Become familiarised to the various practical aspects of entrepreneurship.
22.	P22ECVAC2	Personality and Soft Skills Development	<input type="checkbox"/> Develop listening, speaking, reading and writing skills in English. <input type="checkbox"/> Develop interpersonal skills to maintain human relationship <input type="checkbox"/> Promote communicative ability in both spoken and written form of the language <input type="checkbox"/> Enhance soft skills and engage in a range of communicative tasks and activities <input type="checkbox"/> Develop corporate skills to promote leadership qualities and team spirit.



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PG AND RESEARCH DEPARTMENT OF ENGLISH

Programmed offered:

- B.A. English (Unaided)
- M.A. English (Unaided)
- Ph.D.

Programme Outcomes: (For Bachelor of English)

Students will be able

- To imbibe Human values and emotions which makes them more responsible in the society
- To nurture creative writings
- To permeate in various fields through communicative skills

Programme Specific Outcomes:

- To get acquaints to the history of literature and language
- To evaluate the concepts of literary critics and their contribution to literature

Sl.No	Sub Code	Name of the course	Course outcome
01.	22ACCEN1	PROSE	<ul style="list-style-type: none">• Language development: Focuses on the process through which students improve their English language skills over time, often measured by assessments or language proficiency exams.• These outcomes are typically tied to standards set for both teachers and students, ensuring that educational practices are aligned with desired language competencies.
02.	22ACCEN2	SHORT STORIES	<ol style="list-style-type: none">1. Resolution (Happy Ending): The conflict is resolved positively for the characters. This is often seen in feel-good stories or fairy tales.2. Twist Ending: The story ends with a surprising or ironic turn of events that alters the reader's perception of the narrative or characters.3. Ambiguous Ending: The conclusion leaves some questions unanswered or open to interpretation, which can provoke thought and discussion.



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			<p>4. Tragic Ending: The characters face failure, loss, or death, which often emphasizes the story's theme of inevitability or the harshness of life.</p> <p>5. Open-ended: The story ends without clear resolution, leaving the outcome to the imagination of the reader, encouraging further speculation or reflection.</p>
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03.	22AFACEN1	SOCIAL HISTORY OF ENGLAND	<p>To help learners understand the social history of England from the Middle Ages to the 20th century</p> <p>To make learners aware of the relation between socio-political and socio-religious events and literary works</p>
04.	22ACCEN3	POETRY I	<p>To introduce learners to the changing trends in English poetry from the Age of Renaissance to Johnson</p> <p>To help learners analyse and appreciate poetry critically</p>
05.	22ACCEN4	FICTION	<p>To make learners understand different forms of novel from the Age of Tennyson to the 20th century</p> <p>To enable learners to identify diverse fictional themes and techniques</p> <p>To help learners improve their creative and imaginative faculties through the novels of major British writers</p>
06.	22AFACEN2	LITERARY FORMS	<p>To initiate learners into the study of various literary forms</p> <p>To enable learners to understand the literary terms while analyzing and interpreting the works of literature</p>
07.	22ACCEN5	POETRY II	<p>To enable learners to comprehend the salient features of various types of poetry from the Romantics up to T.S. Eliot</p> <p>To make learners sharpen their poetic sensibility and stylistic skills</p>



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08.	22ACCEN6	ONE -ACT PLAYS	<p>To help learners understand the salient features of one-act plays</p> <p>To make learners comprehend and appreciate various cultures and varieties of presentation in the representative texts</p> <p>To expose learners to the sociological and psychological dimensions of characterization</p>
09.	22ASACEN1	HISTORY OF ENGLISH LITERATURE I	<p>To help learners aware of the literary history of the texts from the Age of Chaucer to Dryden</p> <p>To make learners understand the rise and fall of literary movements and their relationships to socio-political and socio-religious events</p>
10.	22ACCEN7	DRAMA	<p>To introduce learners to the emergence of English Drama from the Elizabethans to the 20th century</p> <p>To make learners understand the features of tragedy, comedy of humors, anti- sentimental comedy, drama of ideas and absurd plays</p>
11.	22ACCEN8	INTRODUCTION TO LANGUAGE AND LINGUISTICS	<p>To introduce learners to the history of English language and concepts in phonetics and linguistics</p> <p>To make learners aware of the form and content of language</p> <p>To enable learners to know the scientific systems of the language</p>
12.	22ASACEN2	HISTORY OF ENGLISH LITERATURE II	<p>To expose learners to the historical background of the literary texts from the Age of Pope to the Present Age</p> <p>To make learners understand the rise and fall of literary movements and their relationships to socio-political and socio-religious events</p>
13.	22ACCEN9	SHAKESPEARE	<p>To introduce learners to the dramatic and theatrical conventions of Shakespeare</p> <p>To make learners understand the characterization, dramatic and poetic techniques in Shakespearean plays</p> <p>To enhance learners' appreciation and enjoyment of select plays of Shakespeare</p>



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14.	22ACCEN10	PRINCIPLES OF LITERARY CRITICISM	To acquaint learners with the knowledge of history of literary criticism, its various trends and schools To help them apply literary theory to texts in order to enrich their understanding and appreciation of literature
15.	22ACCEN11	AMERICAN LITERATURE	To introduce learners to important aspects in various genres of American literature To help them get acquainted with the richness of American literature through representative works of poets, essayists and novelists.
16.	22ACCEN12	INDIAN CULTURE AND LITERATURE	To make learners understand the rich literary heritage of India To appreciate the underlying unity among the diverse languages and literatures of India To recognize the important contribution of India to world literature
17.	AMBEEN1	TRANSLATION THEORY AND PRACTICE	To familiarize learners with the history and theory of translation To introduce them to the techniques involved in translation To make them translate prose passages from English to Tamil and vice versa
18.	16ACCEN13	INDIAN WRITING IN ENGLISH	To make learners aware of the history and the growth of Indian Writing in English To introduce them to the rich literary tradition in Indian Writing in English To enable them to appreciate the changing trends in Indian literature in English from pre- to post-Independence era
19.	16ACCEN14	COMMONWEALTH LITERATURE	To introduce learners to the literatures of a few commonwealth Writers To enable them to understand and appreciate various cultures, traditions and more.
20.	16ACCEN15	ENGLISH LANGUAGE TEACHING	To expose learners to various approaches and methods, aspects and strategies of teaching English to help them understand the essential components and concepts of language teaching
21.	16AMBEEN 2	JOURNALISM	To initiate learners to the history of journalism To expose them to various aspects of journalism



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22.	16AMBEEN 3	ENGLISH FOR COMPETITIVE EXAMINATIONS	To instill confidence in learners and improve their language skills to face the challenges of competitive examinations To equip learners with adequate English language skills to achieve success in competitive examinations
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Programme Outcome: (For Master of English)

Students will be able

- To understand and apply the basic concepts of research
- To acquire in depth knowledge in various genre of literature
- To make effective use of language for their expressions

Programme Specific Outcome

- To express the concepts and movements of world literature
- To analyze the works of literature through theoretical approach



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Sl.No	Sub Code	Name of the course	Course outcome
01.	P22ENCC11	LANGUAGE AND LINGUISTICS	<p>To provide learners an insight into the nature of language</p> <p>To familiarize them with the discourse of linguistics and to expose them to theoretical and practical Manifestations of linguistics</p> <p>To enable them to understand the nexus between literature and society</p>
02.	P22ENCC12	MODERN LITERATURE I	<p>To introduce learners to the evolution of English poetry from Chaucer's period</p> <p>To expose them to the salient features of metaphysical poetry</p> <p>To introduce learners to the origin of English essays</p> <p>To make them understand the features of tragedy, romantic tragedy, revenge play and comedy of humors of Shakespeare's predecessors</p>
03.	P22ENCC13	MODERN LITERATURE II	<p>To expose learners to the changing trends in English poetry from Milton to Pre-Romantics</p> <p>To make learners understand the prose allegory of the Restoration period and varied prose works of the Age of Pope</p> <p>To make learners know the salient features of anti-sentimental comedy and Restoration comedy</p> <p>To introduce learners to the emergence of the English novel during the Age of Transition</p>
04.	P22ENCCC1A	INTRODUCTION TO COMPARITIVE LITERATURE	<ul style="list-style-type: none"> • Broader Literary Understanding: Students develop an understanding of literature beyond the confines of a single language, culture, or tradition. This involves comparing works from different parts of the world, highlighting both similarities and differences in themes, styles, genres, and historical contexts. • Critical Thinking and Analytical Skills: Students learn to critically analyse texts not only from a single cultural perspective but through multiple lenses. This may include comparative analysis of



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			narrative structures, character development, symbolism, and language use.
05.	P22ENE1B	CHILDREN'S LITERATURE	<ul style="list-style-type: none"> • Understanding of Children's Development: Students gain insight into the developmental stages of children and how literature can cater to different age groups, from picture books for young children to more complex narratives for older readers. This includes recognizing the role of literature in cognitive, emotional, and social development. • Exploration of Themes and Motifs: Students learn to identify recurring themes in children's literature, such as coming-of-age, friendship, moral lessons, fantasy, family dynamics, and the exploration of identity. They explore how these themes are presented in ways that are engaging and accessible to young readers.
06.	P22ENVAC1	SOFT SKILLS THROUGH LITERATURE	<p>To enhance the life skills of the learners</p> <p>To make the learners aware of workplace and career skills</p> <p>To focus on positive behaviour and management techniques</p>
07.	P22ENCC21	MODERN LITERATURE III	<p>To familiarize learners in the characteristics of Romantic poetry</p> <p>To acquaint learners with the unique qualities of the essays of the Romantic Period</p> <p>To make them aware of the political, social and intellectual background of the age through the works of various writers of the Romantic period</p>



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08.	P22ENCC22	MODERN LITERATURE IV	To appreciate the issues such as Capitalism, race, evolution of democracy that shaped the 19 th century England Analyze and examine the representation of the characteristics of the era in the Literature.
09.	P22ENCC23	SHAKESPEARE	Understand the Socio-Political influences of Britain during the Shakespearean age Analyze the technique of disguise in Shakespeare's plays, the reason behind it and discuss the significance of the women characters in his plays. Demonstrate the portrayal of history in his historical plays
10.	P22ENCC2B	GREEN LITERATURE	Describe the role of nature in the works of Art Comment on the Modernized theories of Green Literature Describe the various streams of Eco-Criticism Note the role of Literature in protecting the Nature
11.	P22ENE2A	RESEARCH METHODOLOGY	To expose learners to philosophy of research To enable learners to use different research sources and document them To make learners know the format of research and mechanics of writing
12.	P22ENCC31	INDIAN ENGLISH LITERATURE	Discuss the different phases of evolution of Indian Writing in English Depict the various customs and traditions through which the writers portray the Indian life Introduce the themes Genres and recent trends of Indian Writing in English
13.	P22ENCC32	AMERICAN LITERATURE	To introduce learners to significant aspects in various genres of American literature To help learners get acquainted with the richness of American literature through representative works of poets, essayists, playwrights and novelists



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14.	P22ENCC33	LITERARY CRITICISM	<p>To introduce learners to literary theory from the beginning of the twentieth century to the present day</p> <p>To help learners apply theory in the analysis of literary texts</p> <p>To enable learners to understand a wide range of theoretical perspectives to enhance their appreciation of literary texts</p>
15.	P22ENCC3A	WORLD CLASSICS IN TRANSLATION	<ul style="list-style-type: none"> • Cultural Exchange: Translations help bridge cultural gaps, allowing readers to experience and understand literature from different parts of the world. Works that are considered classics in one culture, such as <i>Don Quixote</i> (Spain), <i>War and Peace</i> (Russia), or <i>One Hundred Years of Solitude</i> (Colombia), become widely available for readers from diverse backgrounds. • Literary Preservation: Translation can preserve the legacy of works that might otherwise be limited to a specific language or culture. It ensures that important literary traditions are not lost over time.
16.	P22ENE3B	SCIENCE FICTION	<ul style="list-style-type: none"> • Technological Advancement: The outcome might focus on the development of new technologies, such as artificial intelligence, space travel, or advanced robotics. These advancements could lead to a utopian society or, conversely, dystopian outcomes depending on how they're used. • Alien Encounters: Many science fiction stories explore the outcome of first contact with alien species. The outcome could range from peaceful coexistence and knowledge-sharing to intergalactic war or existential threats to humanity.
17.	P22ENCC41	POST COLONIAL LITERATURE	<ul style="list-style-type: none"> • Understanding of Colonial Legacies: Post-colonial literature offers insights into the lasting effects of colonialism on both colonizers and the colonized. This includes the exploration of issues like cultural erasure, identity struggles, and the psychological impact of colonial domination.



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			<ul style="list-style-type: none"> • Exploration of Identity and Belonging: Much of post-colonial literature deals with themes of identity, hybridity, and the search for belonging, especially in contexts where colonized people have been subjected to forced assimilation or devaluation of their indigenous cultures.
18.	P22ENCC42	LITERARY THEORY	<p>Deeper Understanding: Literary theory allows readers to explore texts from multiple angles, uncovering layers of meaning that may not be immediately apparent. This can lead to a richer and more nuanced understanding of a text.</p> <p>New Interpretations: Different theoretical lenses—such as Marxism, feminism, postcolonialism, psychoanalysis, structuralism, etc.—can offer new interpretations and insights into the text. A single work of literature can be analysed in various ways, each offering a different perspective.</p>
19.	P22ENIBC	INTRODUCTION TO JOURNALISM AND MASS COMMUNICATION	<ul style="list-style-type: none"> • Understanding of Mass Communication Theories: Students gain knowledge about the fundamental theories and models of mass communication, such as the Shannon-Weaver model, the Agenda-Setting theory, and the Uses and Gratifications theory, among others. • Familiarity with Journalism Practices: Students learn about the role of journalists in society, news gathering, writing, editing, and reporting. This includes understanding the ethical standards and legal frameworks that guide journalistic practices.
20.	P22ENPW	PROJECT WORK	<ul style="list-style-type: none"> • Deliverables: The tangible or intangible products, results, or services produced from the project. These could be reports, prototypes, software applications, designs, or data sets, depending on the project's goals. • Objectives Achievement: Whether the original objectives or goals of the project were met. This could involve solving a particular problem, creating a solution, meeting deadlines, or fulfilling specific requirements.



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POST GRADUATE DEPARTMENT OF HISTORY

Programmes offered:

- **B.A. History (Aided)**
- **M.A. History (Unaided – From AY 2019-2020)**

Programme Outcomes (B.A. History)

PO1.This programme enable the students to the study of the evolution of human civilizations down the ages from the Pre-Historic to the contemporary period.

PO2.It covers the study of major historical events in India as well as the World.

PO3.Students will get deep knowledge of long-term historical developments.

PO4.History installs the feeling of patriotism in the hearts of the pupils.

PO5.History graduates can get a job in the field of Archaeology, Genealogy, Historical Fiction, Historical Research, Teaching, and to meet the challenges in TNPSC and Civil Service Examination.

Programme Specific Outcomes

PSO1. Compare and contrast the features of the various Pre-Historic cultures

in

India PSO2.

Analyse the socio-economic life of early Indian people.

PSO3. Evaluate the contributions of the administrators to the early Indian

society. PSO4. Appraise the contributions of the Muslim rulers to the Indian

Society.

PSO5. Narrate the importance of the cultural heritage of Medieval

India. PSO6. Evaluate the growth of British power in Bengal.

PSO7. Narrate the significance of the Socio-Religious Reform Movements in

the 19th Century

PSO8. Estimate the causes and effects of the Geographical Discoveries

Course Outcomes

Sl. No	Su. Code	Name of the Course	Course Outcome
I B. A History I Semester			



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1	22ACCHI1	History of India from Pre History to 1206 C. E	<ul style="list-style-type: none"> ❖ to know the pre historic age in India ❖ to study about the invasion of Alexander ❖ to trace the history of Guptas
2	22ACCHI2	History of Tamil Nadu up to 1336 C. E	<ul style="list-style-type: none"> ❖ to learn the political, social and economic conditions of ancient Tamil Nadu ❖ to know the origin of Pallavas and their contribution to the Tamil society ❖ to learn about the advent of Muslim and their impact on Tamil society
3	22AFACHI1	Studies on States and Governments - I	<ul style="list-style-type: none"> ❖ to know the evolution of States and explore the classification of governments ❖ to learn the concepts of Separation of Powers ❖ to know the suffrage of India
4	22UGVED	Value Education	<ul style="list-style-type: none"> ❖ to understand the philosophy of the and value through Thirukural ❖ to learn yoga as value education to promote mental and emotional health
II Semester			
1	22ACCHI3	History of India from 1206 C.E to 1707 C. E	<ul style="list-style-type: none"> ❖ to trace the origin and foundation of Delhi Sultanate ❖ to study the feature of Vijayanagara and Bhamani ❖ to study the establishment of Mughal Empire in India ❖ to analyse the socio economic condition under Mughals
2	22ACCHI4	History of Tamil Nadu from 1336 C.E to 1800 C.E	<ul style="list-style-type: none"> ❖ to learn the administration and achievements of the Tamil rulers ❖ to know the Maratha administration in Tamil Nadu ❖ to study about the advent of Europeans in Tamilagam
3	22AFACHI2	Studies on States and Governments - II	<ul style="list-style-type: none"> ❖ to know about the unique features of Indian Constitution ❖ to learn about the powers and functions of President ❖ to study the Local Government and its functions
4	22UGCES	Environmental Studies	<ul style="list-style-type: none"> ❖ to study about sources and effects of environmental pollution like air, water, soil, nuclear and noise
5	22PELAS1	Professional English – I	<ul style="list-style-type: none"> ❖ to develop the students skills ❖ to increase the students fluency to communicate with others



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II B. A History III Semester			
1	22ACCHI5	History of India from 1707 C.E to 1857 C.E	<ul style="list-style-type: none"> ❖ to learn the disintegration of the Mughals and Maratha Confederacy ❖ to know the advent of the Europeans in India ❖ to trace the success of the expansion of British Rule ❖ to analyze the role of Dalhousie in modernization in India and Sepoy Mutiny
2	22ACCHI6	History of Tamil Nadu from 1800 C.E to 2000 C.E	<ul style="list-style-type: none"> ❖ to learn the administration and achievements of the Tamil rulers ❖ to analyse the interpret the Nayak rulers in Tanjavur ❖ to know the Maratha administration in Tamil Nadu
3	22ASACHI1	Public Administration	<ul style="list-style-type: none"> ❖ to know the evaluations of Indian administration ❖ to learn the administration ❖ to study about the decentralized administration in India
4	22ANMEHI1	Freedom Movement in India	<ul style="list-style-type: none"> ❖ to study the emergence of nationalistic feelings in the country ❖ to trace the emergence of Indian Nationalism ❖ to expose the students to the key concepts of political thoughts
5	22PELAS2	Professional English - II	<ul style="list-style-type: none"> ❖ to motivate the students to Learning, Reading and writing ❖ to develop their communication skill
IV Semester			
1	22ACCHI7	History of Europe from 1453 C.E to 1789 C.E	<ul style="list-style-type: none"> ❖ to study the reason for the fall of Constantinople ❖ to study the immediate cause for the discoveries ❖ to trace the emergence of Nation States in Europe
2	22ACCHI8	History of India from 1857 C.E to 1947 C.E	<ul style="list-style-type: none"> ❖ to evaluate the importance of Queen Victoria's Proclamation ❖ to know about socio religious movement in India ❖ to study about the growth and development of Congress
3	22ASACHI2	Panchayat Raj	<ul style="list-style-type: none"> ❖ to understand the self-governing institutions in India ❖ to create awareness on the Local Self-Institution ❖ to aware of various Rural Development Plans



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4	22ANMEHI2	Working of Indian Constitution	<ul style="list-style-type: none"> ❖ to study the salient features of Indian Constitution ❖ to trace the powers and function of the Union Executive ❖ to study the Federal System of State
5	0	Microsoft Digital Skills	❖
III B. A History V Semester			
1	16ACCHI9	Contemporary India	<ul style="list-style-type: none"> ❖ to know the consequences of partition ❖ to provide an overview of the history and politics of independent India ❖ to learn about development and Five Years Plan
2	16ACCHI10	History of USA upto 1865 A.D	<ul style="list-style-type: none"> ❖ to give insight on Colonization and Independence of USA ❖ to know about the American War of Independence ❖ to impart knowledge on slavery and its impact
3	16ACCHI11	East Asia from 1894 A.D to 1970 A.D	<ul style="list-style-type: none"> ❖ to understand the circumstances leading to the Chinese Revolution ❖ to know the effect of First World War ❖ to know the Peoples Republic in China
4	16ACCHI12	History of Russia upto 1991 A.D	<ul style="list-style-type: none"> ❖ to understand the rise of Russian Empire ❖ to survey the importance of Russian Revolution ❖ to trace the formation of USSR
5	16AMBEHIB	Journalism	<ul style="list-style-type: none"> ❖ to understand the meaning of Journalism ❖ to know the history of Press ❖ to understand the News Agency
6	16RSBE7:2	Office Management Tools	<ul style="list-style-type: none"> ❖ to know about the meaning and elements of Office Management ❖ to trace characteristics and steps ❖ to study the importance of Office Record Management
7	16RSBE7:3	Communication and Interpersonal Skills	<ul style="list-style-type: none"> ❖ to know the basic Communication and barriers to Communication ❖ to know the about the advantages of Lessening ❖ to know about the importance of reading
8	RUGSDC	Soft Skills Development	❖ to develop communicative competence among the students



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			<ul style="list-style-type: none"> ❖ to enhance to the learners soft skills by giving adequate exposure in LSRW and sub skills ❖ to enable learners to put the life skills into practice with confidence
VI Semester			
1	16ACCHI13	History of USA from 1865 A.D to 2000	<ul style="list-style-type: none"> ❖ to study the importance of the Reconstructions ❖ to understand the causes for the Economic Depression ❖ to know the Cold War scenario
2	16ACCHI14	Introduction to Historiography	<ul style="list-style-type: none"> ❖ to understand the need for studying history ❖ to analyse the definition, nature and scope of history ❖ to evaluate their approaches to history
3	16ACCHI15	History of England from 1603 A. D to 1914 A. D	<ul style="list-style-type: none"> ❖ to understand the history of Great Britain ❖ to trace the rise of Parliamentary Democracy in England ❖ to understand the rise of Political Party and Cabinet System in England
4	16AMBEHIC	Panchayat Raj with Special Reference to Tamil Nadu	<ul style="list-style-type: none"> ❖ to know the Self-Governing Institutions in India ❖ to understand the Political aspect affecting the rural people ❖ to create aware of the various Local Self Institutions
5	16AMBEHID	Human Rights	<ul style="list-style-type: none"> ❖ to know the meaning and historical development of Human Rights ❖ to study promotion and protection of Human Rights ❖ to know about the Human Rights issues in India
6	UGGS	Gender Studies	<ul style="list-style-type: none"> ❖ to make boys and girls aware of each others strengths and weakness ❖ to develop sensitivity towards both genders in-order to lead an ethically enriched life ❖ to promote attitudinal change towards a gender balanced ambience and women empowerment



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1	P22HICC11	Indian Civilization and Culture from Pre-History to 1206 C.E	<ul style="list-style-type: none"> ❖ to learn the scope of the study of Ancient History of India ❖ to know the political ideas and institutions ❖ to know the study of origin of the religion
2	P22HICC12	Indian Civilization and Culture from 1206 C.E to 1707 C.E	<ul style="list-style-type: none"> ❖ to know the establishment of Mughal Empire ❖ to learn about the religion and state during medieval period ❖ to know the growth of population and land system in medieval period
3	P22HICC13	Socio-Cultural History of Tamil Nadu from Sangam Age to 1800C.E	<ul style="list-style-type: none"> ❖ to know the socio-cultural activities of the Kalabaras and Pallavas ❖ to provide the knowledge on trade and commerce of the Cholas ❖ to acquaint the learners about the development of art and architecture under Nayaks and Vijayanagar Rulers
4	P22HICC1B	Ideas in History	<ul style="list-style-type: none"> ❖ to study the basic understanding of the concepts ❖ to know the necessity of the concepts of History ❖ to assess the relevance of various ideas to the current scenario
5	P22HIE1A	Archives Keeping	<ul style="list-style-type: none"> ❖ to know the history of the Archives ❖ to study the establishment of Archives ❖ to know the preservative methods of Archives
6	P22HIVAC1	Indian History for Competitive Examinations	<ul style="list-style-type: none"> ❖ to get thorough knowledge of the main aspects of Indian history and its values ❖ to know about the Mughal Empire and the advent of Europeans ❖ to study the growth of nationalism and the making of the Indian Constitution
II Semester			
1	P22HICC21	Socio-Cultural History of India from 1707 C.E to 1857 C.E	<ul style="list-style-type: none"> ❖ to know the disintegration of Mughals and the advent of Europeans in India ❖ to know the war with other states by the British ❖ to know the British Governor General and their policies in India
2	P22HICC22	Socio-Cultural History of Tamil Nadu from 1800 C.E to 2000 C.E	<ul style="list-style-type: none"> ❖ to know the social condition of Tamil Nadu since 1800 A. D



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			<ul style="list-style-type: none"> ❖ to know the Land Systems in Tamil Nadu ❖ to learn the socio-political institution in Tamil Nadu
3	P22HICC23	Freedom Struggle in India	<ul style="list-style-type: none"> ❖ to know the early nationalism and need of Freedom Movement ❖ to know the growth and development of Indian National Movement ❖ to know the history of Swaraj and Non Co – Operation Movement during the period
4	P22HICCC2B	India and Her Neighbours	<ul style="list-style-type: none"> ❖ to study the foreign policy of India ❖ to trace the relationship of India with Pakistan ❖ to know the role of Non-Alignment to International Relations
5	P22HIE2B	Indian Art and Architecture	<ul style="list-style-type: none"> ❖ to study the sources of Indian architectures ❖ to learn about the architectural styles of various dynasties ❖ to learn the Indo-Turkish Architectures
6	P22HINME1	The Constitution of India	<ul style="list-style-type: none"> ❖ to acquaint their rights and responsibilities as citizens of India ❖ to know about the Working of Union Executive ❖ to acquaint the students about power and function of the Supreme Court
II M. A History III Semester			
1	P22HICC31	Women Studies	<ul style="list-style-type: none"> ❖ to learn the important social legislations concerning women ❖ to know the Women's Movement in India ❖ to know the rights of Women in India
2	P22HICC32	Constitutional History of India	<ul style="list-style-type: none"> ❖ to know the historical background of Indian Constitution ❖ to study the Constitutional development under British Crown ❖ to understand the political scenario behind the origin of the Constitution
3	P22HICC33	Historiography and Research Methodology	<ul style="list-style-type: none"> ❖ to learn the history of Historiography and eminent Historians ❖ to develop the skills and gain knowledge on various aspects of research ❖ to acquire proficiency in the art of history writing



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4	P22HICC3A	Human Rights and Duties	<ul style="list-style-type: none"> ❖ to know the evolution of Human Rights in India ❖ to learn about the international organization on Human Rights in India ❖ to learn the activities of Human Rights in India
5	P22HIE3A	Epigraphy	<ul style="list-style-type: none"> ❖ to study about the evolution and development of inscriptions in India ❖ to know students about the various types of scripts
6	P22HINME2	Heritage Tourism in India	<ul style="list-style-type: none"> ❖ to know the concept and meaning of Tourism in India ❖ to reveal the scope of employability in the field of tourism
IV Semester			
1	P22HICC41	India Since 1947 C.E	<ul style="list-style-type: none"> ❖ to know the development of Science and Technology after 1947 ❖ to learn the significance of Five Year Plan ❖ to know the educational policies and various Economic Movements after 1947
2	P22HICC42	International Relations Since 1945 C.E	<ul style="list-style-type: none"> ❖ to study the definition and scope of the International Politics ❖ to know the various theories of International Relations ❖ to acquire the role of World Organizations in peace making process
3	P22HIIBC	General Studies for Competitive Examination	<ul style="list-style-type: none"> ❖ to understand the functions of Solar System ❖ to learn the significant features of constitution ❖ to study the importance of Indian Economic Plan
4	P22HIPW	Project	<ul style="list-style-type: none"> ❖ to know the basics of research work ❖ to learn the methodology of the research
5	P22HIVAC2	Introduction to Indian Polity	<ul style="list-style-type: none"> ❖ to know the evolution of the Indian Constitution ❖ to study the basic structure of the Indian Constitutions



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P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS

Programmes offered:

- **B.Sc. Mathematics (Aided)**
- **B.Sc. Mathematics (Unaided)**
- **M.Sc. Mathematics (Unaided)**
- **Ph.D. Mathematics**

Programme Outcomes: (For Bachelor of Science)

- The Mathematics UG students, after the completion of the course will gain a thorough knowledge in preparing competitive examinations conducted by TNPSC/UPSC/BSRB/SSB.
- The UG curriculum offers computer courses which enable the students to solve computer oriented numerical problems.
- Abstract courses and Mathematical structures included in the UG programme enable the students to prepare themselves for higher education leading to M.Sc/MCA degree courses at premier institutions like IIT, NIT and Central Universities.

Programme Specific Outcome:

- Students are able to understand and view mathematical structures.
- Students will learn numerical aptitude, both qualitative and quantitative knowledge for their future career.

S.No	Sub. Code	Name of the Course	Course Outcomes
1	22SCCMM1	Differential Calculus and Trigonometry	<ul style="list-style-type: none">• Explain the relationship between the derivative of a function as a function and the notion of the derivative as the slope of the tangent line to a function at a point.• Compare and contrast the ideas of continuity and differentiability.



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			<ul style="list-style-type: none"> • Find maxima, minima, critical points and inflection points of functions and to determine the concavity of curves. • Convert angles from degrees to radians and vice versa. • Compute the length of a circular arc given the radius and the interior angle. • Understand the definitions of the inverse trigonometric functions, compute the domain and range of the hyperbolic and inverse trigonometric functions and to find exact values of composite functions with inverse trigonometric functions
2	22SCCMM2	Integral Calculus and Fourier Series	<ul style="list-style-type: none"> • Derive reduction formula and thereby evaluate some standard integrals. • Explain the properties of Beta and Gamma functions and apply it to compute the integral. • Identify odd and even functions and determine Fourier series expansion of these given functions. • Apply change of variable method to evaluate double integral. • Utilize double and triple integral to compute area and volume of a solid.
3	22SCCMM3	Differential Equations	<ul style="list-style-type: none"> • Solve first-order ordinary differential equations. • Solve higher order differential equations. • Solve the Higher order differential equations using methods of variation of parameter. • Solve partial differential equations using Lagrange's Method.
4	22SCCMM4	Analytical Geometry 3D	<ul style="list-style-type: none"> • Gain knowledge about the regular geometrical figures and their properties. • Analyze condition of tangency and find the tangent plane to the sphere. • Examine the condition for the general equation of the cone. • Understand the concept of quadric cone and its properties. • Acquire the basic knowledge of tangents and conicoid.
5	22SCCMM5	Classical Algebra and Theory of Numbers	<ul style="list-style-type: none"> • Know the foundation of Theory of Equations. • Applying the skills to solve problems in operative algebra.



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6	22SCCMM6	Sequence and Series	<ul style="list-style-type: none"> • Determine if an infinite sequence is bounded. • Determine if an infinite sequence is monotonic. • Determine if an infinite sequence is convergent or divergent. • Find the sequence of partial sums of an infinite series. • Determine if a geometric series is convergent or divergent. • Find the sum of a convergent geometric series. • Determine if an infinite series is convergent or divergent by selecting the appropriate test. • Determine if an infinite series converges absolutely or conditionally.
7	22SCCMM7	Vector Calculus and Laplace Transforms	<ul style="list-style-type: none"> • Learn the basic knowledge of vector differentiation and vector integration • Solve vector differentiation and integration problems. • Introduce the basic concepts of Laplace Transforms. • Solve a differential equation by using Laplace Transforms
8	22SCCMM8	Abstract Algebra	<ul style="list-style-type: none"> • Demonstrate the abstract structures of algebra • Prove standard theorems of groups and rings • Check irreducibility of polynomial and verify whether a function is isomorphism or not • Determine cosets, automorphism, kernel, maximal and prime ideals • Develop examples of groups and rings with specific criterions • Students will be able to determine whether a given group is abelian by checking the properties. • Prove that a given subset of a group is a subgroup by applying the properties. • Describe all elements in a cyclic subgroup by using generators.
9	22SCACMS1	Mathematical Statistics I	<ul style="list-style-type: none"> • Understand random variables and probability distributions. • Know the difference between continuous and random variables. • Acquire the knowledge by using Binomial and Poisson distribution.



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10	22SCACMS2	Mathematical Statistics II	<ul style="list-style-type: none"> • Understand the meaning of correlation, regression and its properties. • Apply the concepts of t, F, z distributions and its applications. • Apply the concepts of sampling techniques and procedure of testing of hypothesis for large samples.
11	22SCACMS1P	Mathematical Statistics Practical	<ul style="list-style-type: none"> • Understand and critically discuss the issues surrounding sampling and significance. • Check the given data are correlated or not using Karl Pearson's coefficient of correlation or Spearman's rank correlation.
12	16SCCMM9	Numerical Methods with MATLAB Programming	<ul style="list-style-type: none"> • Introduction to Programming and Numerical Methods • Proficiency in MATLAB Programming • Application of MATLAB to Solve Numerical Problems
13	16SCCMM10	Real Analysis	<ul style="list-style-type: none"> • Solid Understanding of the Real Number System and Countability • Conceptual Mastery of Continuity, Differentiation, and Riemann Integrals • Application of Rolle's Theorem
14	16SCCMM11	Statics	<ul style="list-style-type: none"> • Understanding the Principles of Equilibrium • Application of Equilibrium Concepts to Solve Practical Problems • Development of Problem-Solving Skills
15	16SMBEMM1:1	Operations Research	<ul style="list-style-type: none"> • Understanding of Key Operations Research Techniques • Problem-Solving Skills for Real-Life Business Challenges • Enhanced Analytical and Decision-Making Abilities
16	16SCCMM1P	Numerical Methods with MATLAB Programming (P)	<ul style="list-style-type: none"> • Familiarity with MATLAB Programming and Syntax • Problem-Solving Skills with Numerical Methods • Hands-On Experience with Real-World Applications
17	16SCCMM12	Abstract Algebra	<ul style="list-style-type: none"> • Foundational Understanding of Set Theory and Functions • Introduction to Group Theory • Conceptual Mastery of Rings and Their Properties



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18	16SCCMM13	Complex Analysis	<ul style="list-style-type: none"> • Understand the functions of complex variables, continuity and differentiation of complex variable functions, CR equations of analytic functions. • Learn about elementary transformation concepts in complex variable. • Know about complex Integral functions with Cauchy's Theorem, power series expansions of Taylor's and Laurant's series. • Understand the singularity concepts and residues, solving definite integrals using the residue concepts
19	16SCCMM14	Dynamics	<ul style="list-style-type: none"> • Understanding of Motion and Kinematic Principles • Application of Newton's Laws of Motion • Practical Problem-Solving Skills
20	16SMBEMM2:1	Graph Theory	<ul style="list-style-type: none"> • Understanding the Fundamentals of Graph Theory • Application of Graph Theory in Real-World Problems • Mastering Combinatorics Techniques in Graph Theory
21	16SMBEMM3:2	Number Theory	<ul style="list-style-type: none"> • Understanding the Theory and Applications of Number Systems • Mastery of Congruence and Modular Arithmetic • Preparation for Coding and Algorithmic Problem Solving

Programme Outcome: (For Master of Science)

- After completing two years of M.Sc., Mathematics programme students are equipped with through knowledge in pure and applied mathematics.
- The mathematical curriculum offers a number of practical exposures which equips the students to face modern challenges in mathematics.
- The PG students, after the completion of the course will gain a thorough knowledge in preparing themselves for the CSIR NET , SET and GATE examinations.

Programme Specific Outcome:

- Students enable to apply the concepts of operations research, probability theory and fuzzy theory in real life problems.
- Elective papers in PG programme enable the students for real time applications.
- Further the elective paper, fuzzy theory impact through knowledge in fuzzy which is very use full for the students to peruse their research programme in future.



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S.No	Sub. Code	Name of the Course	Course Outcomes
1	P22MACC11	Algebra	<ul style="list-style-type: none"> Gain expertise in the basic concepts of group theory with the help of numerous examples. Discuss in detail about permutation groups and Normal subgroups and discuss on counting tricks in algebra. Bring out the key steps involved in proving Sylow theorems and use Sylow's theorems to classify groups of finite order upto 120. Learn the fundamental concept in field theory of field extensions and would see the idea of generating new fields. Have clear cut idea in the notions of Galois groups, normal extensions and separable extensions and illustrate them with various examples. Able to understand the Fundamental theorem of Galois theory.
2	P22MACC12	Real Analysis	<ul style="list-style-type: none"> Describe fundamental properties of the real numbers that lead to the formal development of real analysis. Demonstrate an understanding of limits and how that are used in sequences. Demonstrate an understanding of limits and how that are used in series. Demonstrate an understanding of limits and how that are used in sequences Examine and recognize the continuity of real functions. Demonstrate an intuitive and computational understanding of set theory, Continuity and solving application problems. This will be assessed through homework, class quizzes and tests, and a final exam.
3	P22MACC13	Ordinary Differential Equations	<ul style="list-style-type: none"> Find the general solution of the first order linear homogeneous equations. Understand the utility of the theory of power series which is studied in Real Analysis course through solving various second order differential equations. Get introduced to the Hypergeometric functions which arises in



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			<p>connection with solutions of the second order ordinary differential equations with regular singular points.</p> <ul style="list-style-type: none"> • Solve the problems arises in Mathematical physics using properties of special functions. • Understand the importance of studying well-posedness of the problem namely existence, uniqueness and continuous dependence of first order differentialequations through Picard's theorem. • Understand the utility of the concepts from linear algebra and analysis in thestudy of system of first order equations. • Discuss the Qualitative properties of solutions of first and second order equations. Also they will be able to work on numerous problems usingcomparison theorem in Sturm Liouville problems. • Learn the nature of solutions which involves critical points and phase portraitof nonlinear equations.
4	P22MACC1A	Classical Dynamics	<ul style="list-style-type: none"> • Understand the important definitions and introductory concepts like the ideasof virtual work and d'Alembert's principle. • Derive Lagrange's equations of motion using d'Alembert's principle. • Understand the nature of equations of motion for holonomic andnonholonomic systems. • Understand the idea of impulsive constraints. • Compare dissipative systems and velocity dependent potentials. • Understand the Hamiltonian view point of dynamics in canonical equations ofmotion and phase space. • Understand the concepts of Hamilton - Jacobi theory. • Obtain some concrete procedure for solving problems using the theory ofcanonical transformations.
5	P22MAE1C	Fuzzy Set Theory	<ul style="list-style-type: none"> • Interpret fuzzy set theory and uncertainty concepts. • Identify the similarities and differences between probability



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			<p>theory and fuzzy set theory and their application conditions.</p> <ul style="list-style-type: none"> • Apply fuzzy set theory in modeling and analyzing uncertainty in a decision problem. • Apply fuzzy control by examining simple control problem examples.
6	P22MACC21	Complex Analysis	<ul style="list-style-type: none"> • Understand the complex number system from geometric view point. Will gain mastery in arguments on C^* and logarithms. • Get expertise in the concept of convergence of sequences and series of complex numbers, continuity and differentiability of function on complex numbers. Also the students will be able to thoroughly understand and know the importance of power series in complex analysis. • Workout the path integrals on the complex plane. • Understand the central theme of Cauchy theory, viz., existence of local primitives and local power series expansion. • Get acquainted with various techniques of proving fundamental theorem of algebra, open mapping theorem, maximum modulus theorem and Liouville's theorem. • Classify singularities, compute poles and residues and understand the Laurent series expansion. • Appreciate and work on the topology of extended complex plane.
7	P22MACC22	Linear Algebra	<ul style="list-style-type: none"> • Realise that the subject evolves as a generalization of solving a system of linear equations. • Discuss in detail the basic concepts of Linear dependence, basis and dimension of a vector space. The students will be able to demonstrate how the geometric ideas turn into rigorous proofs. • Master the dimension formula and rank and nullity theorem which are often exploited. • Capture the idea of producing lot of structure preserving maps (Linear transformations). Further the study of algebras of linear maps would be accomplished.



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			<ul style="list-style-type: none"> • Having got trained in numerous examples the student realizes the isomorphic theory of linear transformations and matrices. • Learn the theory of determinants and put them in practice. • Understand that the central theme of structure theory of linear maps is to decompose the given vector space as a direct sum of generalized the Eigenspaces using the given map on it. • Understand that linear Algebra plays a fundamental role in many areas of mathematics including Algebra, Geometry, Functional analysis and which finds widest application in Physics, Chemistry and elsewhere.
8	P22MACC2A	Partial Differential Equations	<ul style="list-style-type: none"> • Classify first order partial differential equations and their solutions. • Solve first order equations and nonlinear partial differential equations using various methods. • Use the method of characteristics to solve first order partial differential equations. • Identify and solve the three main classes of second order equations, elliptic, parabolic and hyperbolic. • Solve one dimensional wave equations using method of separation of variables. • Classify the boundary value problems and analyse its solutions. • Solve Heat conduction problem using Fourier series and cosines. • Illustrate the use of PDE in problems from Engineering and Biological Sciences.
9	P22MAE2C	Stochastic Processes	<ul style="list-style-type: none"> • Acquire adequate knowledge about Continuous Time Markov chain and Queuing system. • Gain understanding on the Renewal process, Cumulative process and Semi-Markov process. • Apply different methods to solve birth and death queues. • Examine the computations of renewal process and theory. • Conclude the idea of Branching process.



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10	P22MAVAC1B	Introduction to MAT LAB	<ul style="list-style-type: none"> • Understand the main features of the MATLAB development environment. • Use the MATLAB GUI effectively. • Design simple algorithms to solve problems. • Write simple programs in MATLAB to solve scientific and mathematical problems.
11	P22MACC31	Topology	<ul style="list-style-type: none"> • Study and understand the concepts of metric spaces, topological spaces • Understand the concepts of open bases and open sub bases • Understand the concepts of Compactness, connectedness and separation axioms • Provide patience to grapple with life outside the campus.
12	P22MACC32	Measure Theory and Integration	<ul style="list-style-type: none"> • Learn the basic concepts of measure and integration. • Comprehend the differences between different types of convergences. • Understand the concepts of Classical Banach Spaces • Learn completeness and approximation in L^p-spaces. • An overview of the central results of the theory of Lebesgue integration.
13	P22MACC3A	Advanced Numerical Analysis	<ul style="list-style-type: none"> • Solve algebraic and transcendental equations using various iterative methods and study the rate of convergence of those problems. • Solve System of Linear Algebraic equations using direct methods and indirect methods. • Solve eigen value problems and study the error analysis. • Solve algebraic equations and differential equations using the techniques of interpolation like Lagrange Interpolation, Hermite Interpolation etc. • Perform curve fitting using least square approximation. • Find the numerical value of the derivative of various functions using Euler method and Runge-Kutta method. • Calculate the numerical value of a definite integral using methods like quadrature rules in numerical integration.



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			<ul style="list-style-type: none"> Identify the suitable numerical method and perform error analysis.
14	P22MAE3A	Integral Equations and Calculus of Variations	<ul style="list-style-type: none"> Understand the concepts of variation and its properties. Use Euler's equation to solve various types of variational problems with fixed boundaries. Modify the Euler's formula for a class of curves with moving boundary points. Solve problems related with reflection and refraction, diffraction of light rays. Derive sufficient conditions based on second variation. Classify Fredholm, Volterra and singular type integral equations. Solve integral equations using Fredholm theorem, Fredholm Alternative theorem and method of successive approximations. Understand the classical Fredholm theory.
15	P22MAVAC2A	Mathematics for Competitive Examinations	<ul style="list-style-type: none"> Face competitive examinations with confidence. Solve a lot of problems on numbers and averages and problems on ages. Get a lot of training on percentage, profit and loss. Crack problems on calculating simple interest and compound Interest. Work on a plenty of problems on time and work. Get working knowledge on ratios and proportions. Calculate time, distance, speed given the other two and solve lot of problems. Acquire problem solving ideas on trains, boats and streams.
16	P22MACC41	Functional Analysis	<ul style="list-style-type: none"> Identify Banach spaces and analyse their properties with other types of spaces. Examine and identify properties of complex Banach spaces- Hilbert spaces. Apply the analytical techniques and theoretical knowledge in Hilbert Spaces. Find out and determine orthonormal sets.



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			<ul style="list-style-type: none"> • Explain various properties of Hilbert spaces. • Attain knowledge and experience of working with many pure mathematical problems.
17	P22MACC42	Differential Geometry	<ul style="list-style-type: none"> • Have a solid understanding of the subjects, linear algebra, multivariable calculus and differential equations and a basic knowledge of theoretical physics. • Sketch and workout graphs, level sets, tangent space and surfaces of given smooth maps. • Good knowledge on calculus of vector fields. • Understand how Gauss map helps to identify the surfaces that are mapped onto the unit n-sphere. • Describe surfaces as a solution set of differential equations. • Exhibit geodesics on surfaces. • Learn how parametrizations of plane curves can be used to evaluate integral over the curve. • Compute the Gaussian curvature of various surfaces.
18	P22MACC43	Fluid Dynamics	<ul style="list-style-type: none"> • Understand the basic ideas of fluid velocity, streamlines and rotational and irrotational flows. • Understand the meanings of fundamental terms like pressure and body force. • Develop special mathematical methods involving images and complex variables for incompressible fluids.
19	P22MAE4A	Theory of Probability	<ul style="list-style-type: none"> • Understand Probability axioms and find conditional probabilities for lot of cases • Compute expectations and moments on a number of distributions. • Gain mastery in the important probability distributions, viz., Binomial, • Poisson and Normal.



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PG & RESEARCH DEPARTMENT OF PHYSICS

Programme outcome: (For Bachelor of Science)

Physics programme for Bachelor of Science aims to equip students to provide a firm foundation in every aspect of Physics and to explain a broad spectrum of modern trends in physics and to develop experimental, computational and mathematics skills of students.

Programme Specific outcome

B Sc Programme in Physics provides an intellectually stimulating environment to develop skills and enthusiasms of students to the best of their potential. Use Information Communication Technology to gather knowledge at will.

Sl.No	Subject Code	Name of the course	Course outcome
1	22LCT1	Tamil Language Course -1	Studying modern poetry, grammar vocabulary, moral values of short stories, offices business letter, précis reports.
2	22ELCE1	English Language Course -1	Read and understand simple texts in English Answer simple comprehension questions and match sentences about texts
3	22SCCPH1	Properties of Matter and Acoustics	Study the elastic behaviour and working of torsional pendulum <ul style="list-style-type: none"> • Study of bending behaviour beams and analyse the expression for young's modulus • Understand the surface tension and viscosity of fluid • Analyse waves and oscillations • Study the basic properties and production of ultrasonics by different methods
4	22SCCPH1P	Core Practical Properties of Matter	<ul style="list-style-type: none"> • Study the elastic behaviour of materials • Analyse the relationship between various types of experiments • Perform the procedure as per standard values • Understand the applications
5	22SCACMM1A	First Allied Course -1 Mathematics Paper-1	<ul style="list-style-type: none"> • Understand concepts of limit and continuity on \mathbb{R} through ϵ-δ definition. • Learn the conceptual variations when advancing in calculus from one variable to multivariable discussions. • Sketch curves in a plane using its mathematical properties in the



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			different coordinate systems of reference. • Learn the applications of mean value theorem and Taylor's theorem.
6	22UGVED	Value Education	<ul style="list-style-type: none"> • Understand importance of role of Values in developing self . • Inculcate right values, ethics, attitudes, manners and behaviors for life • Respond and relate with expectations, competitions and power of networking • Apply the values in order to live a positive, healthy and productive life. • Understand the significance of having appropriate attitude and balance towards work life as well as personal life.
	23LGT2	Tamil Language Course -II	Middle age literature, different essays, translation, grammar.
7	23ELGE2	English Language Course -II	<p>Reconstruct texts by reordering sentences</p> <p>Understand the main idea of a text</p> <p>Identify specific information in a text</p>
8	22SCCPH2	Mechanics	<ul style="list-style-type: none"> • Understand the definition for centre of gravity in hemisphere, hollow hemisphere etc., • Understand the dynamics and gravitation • Study the behaviour of rigid body dynamics • Analyse the performance of hydrostatic and hydrodynamics
9	22SCCPH2P	Core Major Practical - II	<ul style="list-style-type: none"> • Analyse the relationship between various types of experiments • Perform the procedure as per standard values • Understand the applications
10	22SCACMM1B	Allied Mathematics Paper-II	<ul style="list-style-type: none"> • Understand basic concepts of Differential Equations • Solve first order linear and non-linear differential equation and linear differential equations of higher order using various techniques. • Semester III Formulate, classify and solve linear and non-linear partial differential equations using various methods; and apply these methods in solving some physical problems
11	22SCACMM1C	Allied Mathematics Paper-III	• Understand different types of



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			<p>Matrices and their types.</p> <ul style="list-style-type: none"> • Find Rank and also find Eigen values and corresponding eigenvectors for a square matrix. • Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank. • Find matrix form of basic geometric transformations and interpretation of Eigen values and eigenvectors of such transformations.
12	22UGCES	Environmental Studies	<ul style="list-style-type: none"> • Gain in-depth knowledge on natural processes and resources that sustain life and govern economy. • Understand the consequences of human actions on the web of life, global economy, and quality of human life. • Develop critical thinking for shaping strategies (scientific, social, economic, administrative, and legal) for environmental protection, conservation of biodiversity, environmental equity, and sustainable development. • Acquire values and attitudes towards understanding complex environmental economic- social challenges, and active participation in solving current environmental problems and preventing the future ones.
13	22PELPS1	Professional English for Physical Sciences-I	<ul style="list-style-type: none"> • Professional English (ESL) is a practical course for students who are still developing fluency in written and spoken English, and who wish to improve their expression in the context of business communications
14	22LCT3	Tamil Language course -III	Middle age poetry, grammar, learning about characters from the novel, essays related to current situations.
15	22ELCE3	English Language course - III	<p>Skim for main ideas and scan for specific information</p> <p>Find information in documents</p> <p>Understand texts about familiar topics</p>
16	22SCCPH3	Thermal Physics Major Paper	<ul style="list-style-type: none"> • Understand the nature of calorimetry by specific heat of solids and law of thermodynamics and entropy



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			<ul style="list-style-type: none"> Analyses of Zeroth law of thermodynamics and entropy Understanding the low temperature physics
17	22SCCPH3P	General Physics Major Practical – III	<ul style="list-style-type: none"> Analyse the relationship between various types of experiments Perform the procedure as per standard values Understand the applications
18	22SCACCH1	Allied Chemistry – I	<ul style="list-style-type: none"> To understand the various theories of coordination chemistry. To study the various concepts of resonance and halogen compounds. To study the properties of aromatic compounds and organic reactions. To learn the concepts of solid-state chemistry
19	22SNMECH1	Non-Major Elective - Drugs and Cosmetics	<ul style="list-style-type: none"> To impart fundamental knowledge in the field of Chemistry The theory and practical aspects of the subject augment the ability of the learner to understand the implications of scientific and technical approaches To mould the learner into a prospective skillful scientific workforce for the future Study of Skill based papers and Industrial visit help mutual collaboration
20	20PELPS2	Professional English –II	<ul style="list-style-type: none"> The course is designed for students whose first language is not English. Common business documents are studied, as well as grammar, syntax and style.
21	22LCT4	Tamil Language course -IV	Ancient poetries with moral value lessons, Acting as the character in the drama, reading and writing skills without mistakes, learning to maintain business files, good qualities of management.
22	22ELCE4	English Language course - IV	Answer multiple choice and short answer questions about a text Use simple texts as models for writing.
23	22SCCPH4	Electricity Magnetism and Electromagnetism	<ul style="list-style-type: none"> Study the electric field using Coulombs inverse square law in electrostatics of current Analyse the chemical and heating



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			<p>effect of current</p> <ul style="list-style-type: none"> Analyse the relations between b, h and m Understand the faradays laws of electromagnetic induction by Rayleigh's method Analyse the value of Maxwell equation- boundary conditions
24	22SCCPH4P	General Physics Major Practical-Electricity –IV	<ul style="list-style-type: none"> Analyse the relationship between various types of experiments Perform the procedure as per standard values Understand the applications
25	22SCACCH2	Allied Chemistry – II	<ul style="list-style-type: none"> To learn the basics of nuclear chemistry and metallic bond. To understand the properties and applications of carbohydrates, amino acids and proteins. To study the basic concepts of polymers, heterocyclic compounds and stereoisomerism
26	22SNMECH2	Non Major Elective - Chemistry in Everyday life	<ul style="list-style-type: none"> Chemistry is used in daily life for numerous tasks, including eating safe foods, boiling water to kill bacteria, using antibacterial soap and more. There are many applications of chemistry in daily life; you likely just don't recognize them.
27		Nan Mudhalvan Scheme – Digital Skills for Employability	<ul style="list-style-type: none"> Naan Mudhalvan is the flagship Initiative by the government of Tamilnadu which will promote skill development in the State of Tamilnadu by providing equal opportunities to all aspirants. This platform aims to provide dynamic information for college students on courses and relevant information about industry specific skill offerings. The MANDATORY courses are chosen specifically by the faculty of the colleges. These course requirements allow to develop knowledge beyond the subject that interests the student.
28	16SCCPH5	Optics	<p>Understand the natural behaviour of aberration in lens</p> <ul style="list-style-type: none"> Study the theory and experiment of interference using air wedge, Newtons rings and Michelson interferometer Study the theory and experimental past of diffraction by Fresnels and



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			<p>Fraunhofer methods • Study the theories for production of polarization of light</p> <ul style="list-style-type: none"> • Understand the theory and application of microwave, infrared and Raman spectroscopy
29	16SCCPH6	Atomic and Molecular Physics	<p>Understand the properties of positive rays, experimental proof by frank and hertz method</p> <ul style="list-style-type: none"> • Analyse the relationship between various types of couplings • Understand the properties of x-ray s verification • Analyse the ideas of basics of nucleus and their energy • Perform the procedures for nuclear fission and fusion
30	16SCCPH7	Electronics	<ul style="list-style-type: none"> • Understand the basics of diode and working of rectifier circuits and characteristics • Analyse the characteristics of transistor and transistor biasing circuits • Perform the procedures for the working of single stage and multistage amplifier • Analyse the relationship between amplifier and oscillators • Understand the applications of op-amps i inverting and non inverting modes
31	16SMBEPH1	Material Science	<ul style="list-style-type: none"> • To impart comprehensive knowledge in theoretical, experimental and computational Physics and a better understanding of the materials. • To train and empower to think creatively and critically about Physics in foundations and contemporary applications of material science.
32	16SCCPH4P	Major Practical –IV	<ul style="list-style-type: none"> • Study the emf, resistance, behaviour of the materials • Analyse the relationship between $\tan a$ and $\tan b$ • Analyse the specific heat capacity, refractive index, as per the standard procedure • Understand the standard values of the results
33	16SCCPH8	Nuclear Physics	<ul style="list-style-type: none"> • To impart knowledge of radioactivity and related phenomena. • To inculcate various interactions of



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			<p>nuclear radiation with matter.</p> <ul style="list-style-type: none"> • To make the students understand the fission and fusion reactions and their applications. • To emphasize the understanding of nuclear forces, nuclear models, elementary particles and accelerators.
34	16SCCPH9	Theoretical Physics	<p>Understand the basic significance of mechanics of a system of particles</p> <ul style="list-style-type: none"> • Understand the old quantum theory • Perform the theories of quantum mechanics into Schrodinger wave equation • Understand the application of Schrodinger equation into potential well, barrier • Analyse the basic functions of Eigen values and Eigen functions
35	16SMBEPH2	Microprocessor and C Programming	<p>Understand the basic concepts of fundamentals of operators and expressions</p> <ul style="list-style-type: none"> • Analyse the relationship between various statements • Analyse the various types of function • Perform the different types of arrays • Understand the structure and unions
36	16SMBEPH3	Communication Physics	<ul style="list-style-type: none"> • Understand the communication in digital and analog systems • Design, construct and analyze basic electronic and digital circuits.
37	16SCCPH4P	Major Practical – IV	<ul style="list-style-type: none"> • To improvise the knowledge on utilization of electronic devices in electrical appliances by performing some experiments and executing programmes in order to realize the applications of microprocessors and computers
38	UGGS	Gender Studies	<ul style="list-style-type: none"> • Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired from humanities / sciences/ mathematics/ social sciences.
39		Nan Mudhalvan Scheme	<ul style="list-style-type: none"> • Naan Mudhalvan is the flagship Initiative by the government of Tamilnadu which will promote skill development in the State of Tamilnadu by providing equal opportunities to all aspirants. • This platform aims to provide dynamic information for college



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			<p>students on courses and relevant information about industry specific skill offerings.</p> <ul style="list-style-type: none"> •The MANDATORY courses are chosen specifically by the faculty of the colleges. These course requirements allow to develop knowledge beyond the subject that interests the student.
I M.Sc Physics (ODD Semester)			
40	P22PYCC11	Classical Mechanics	<ul style="list-style-type: none"> •To provide in-depth knowledge on the foundations of Classical Mechanics. To familiarize the laws of motion and learn about their applications in other branches of Physics. • To build a strong base on dynamical systems
41	P22PYCC12	Mathematical Physics	<ul style="list-style-type: none"> •To give a solid mathematical foundation in vector calculus, matrices and differential equations. •To help learn and appreciate the importance of Special functions and their applications in Physics. To develop mathematical skills and solve problems in various branches of Physics.
42	P22PYCC1B	Optoelectronics	<ul style="list-style-type: none"> •To expose the fundamental principles behind the operation of various light sources and detectors. • To introduce fiber optic communications system and their widespread applications. To create awareness about the current scenario in fiber optic communications system and their mitigations
43	P22PYCC1P	General Physics and Electronics I Lab	<ul style="list-style-type: none"> •Experimental determination of certain physical constants and properties and verification of characteristics and applications of electronic components and devices.
44	P22PYE1B	Physics Simulation with Python	<ul style="list-style-type: none"> •To introduce Python language and different Python modules. Credit: 4 To give an exposure to solve and visualize the physical problems using Python. • To develop the idea of writing programs using different numerical methods.
45	P22PYVAC1	Research Publication and Ethics	<ul style="list-style-type: none"> •To provide the fundamental knowledge on basics of research ethics, research integrity and



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			<p>publication ethics.</p> <ul style="list-style-type: none">• To expose research misconduct and predatory publications.• To explore citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc.)
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I M.Sc Physics (EVEN Semester)			
46	P22PYCC21	Quantum Mechanics	<ul style="list-style-type: none"> •To enhance the knowledge of the foundations of Quantum Mechanics. • To get acquainted with solving problems using the Schrödinger equation. •To provide a basic understanding of state vectors in abstract representation.
47	P22PYCC22	Electromagnetic Theory	<ul style="list-style-type: none"> •To impart an understanding of the fundamental aspects of electromagnetic theory. • To build a strong base in Maxwell's equations. •To bestow knowledge about dispersion and scattering of electromagnetic waves.
48	P22PYCC2A	Advanced Mathematical Physics	<ul style="list-style-type: none"> •To give a strong mathematical foundation in linear vector space, tensors and complex analysis. • To provide a basic understanding of hypergeometric functions. •To impart knowledge on applying group theory to physical problems.
49	P22PYCC2P	General Physics and Electronics II Lab	<ul style="list-style-type: none"> •Experimental determination of certain physical constants and properties and verification of characteristics and applications of electronic components and devices
50	P22PYE2A	Microprocessor and Microcontroller	<ul style="list-style-type: none"> To learn the architecture and programming and applications of Intel 8085. • To know the various peripheral devices and interfacing applications. • To understand the architecture and programming, and applications of Intel 8051.
51	P22CHNME1	NME-1-Chemistry of Pollution Food and Cosmetics	<ul style="list-style-type: none"> •To understand the principles of Green chemistry. • To learn the various pollutions affecting the environment. • To acquire basic knowledge about chemistry of food and cosmetics.
II M.Sc Physics (ODD Semester)			
52	P22PYCC31	Thermodynamics and statistical mechanics	<ul style="list-style-type: none"> •To understand what is temperature and how to calculate it. •To give an exposure to various statistical ensembles and their applications in physics. • To get familiar with the foundations and applications of quantum statistics.



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53	P22PYCC32	Solid State Physics	<ul style="list-style-type: none"> •To give exposure to structural properties of crystals and the X-ray diffraction principle. • To enhance understanding of the properties of conductors and semiconductors. • To build a strong foundation for the materials' lattice dynamics and thermal, dielectric and electrical properties of materials.
54	P22PYCC3A	Advanced Quantum Mechanics	<ul style="list-style-type: none"> •To get acquainted with approximation methods for time-independent and time-dependent Hamiltonians. • To provide a sound knowledge of atomic and molecular structure through quantum formalism. •To give a basic understanding of the theory of relativistic quantum mechanics.
55	P22PYCC3P	Major Practical (Microprocessor and programming in C++)	<ul style="list-style-type: none"> •To develop programming skills in microprocessor and C++ programming to solve some mathematical problems and learn their applications.
56	P22PYE3A	Physics of Nanomaterials	<ul style="list-style-type: none"> •To provide an introduction to nanomaterials and their peculiar properties. •To describe various techniques for the preparation of nanomaterials. • To introduce various applications and characterization techniques.
57	P22PYVAC3	Chemistry in day to day life	<ul style="list-style-type: none"> •To acquire the fundamental concepts related to the chemistry in daily life • To understand the importance of different types of commercial products for the environment • To apply the basic concepts of chemistry in the manufacture of commercial products for the society • To find the efficiency and the utility of the byproducts derived from the basic and applied concepts of chemistry • To have knowledge about the basic concepts of various micronutrients, fertilizer, dyes, disinfectants and detergents. • To introduce the properties, structural elucidation, applications and the demerits of the products of the applied chemistry.
II M.Sc Physics (EVEN Semester)			
58	P22PYCC41	Crystal Growth and Thin film	<ul style="list-style-type: none"> •To introduce the knowledge of crystal



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		Physics	growth and its characterization. • To understand the basic ideas of thin film fabrication.
59	P22PYCC42	Nuclear and Particle Physics	<ul style="list-style-type: none"> • To understand the nature of nuclear forces. • To have an idea of the nuclear shell model. • To gain knowledge of nuclear reaction and Quark structure.
60	P22PY1BC	Analytical Characterization Techniques	<ul style="list-style-type: none"> • To provide fundamental features of analytical instrumentation to the students. • To impart knowledge about the fundamental properties of the instrumental analysis and experimental and theoretical aspects of the characterization techniques. • To know the basic theory of characterization techniques and application.
61	P22PYVAC2	Medical Instrumentation	<ul style="list-style-type: none"> • To provide fundamental features of analytical instrumentation to the students. • To impart knowledge about the fundamental properties of the instrumental analysis and experimental and theoretical aspects of the characterization techniques. • To know the basic theory of characterization techniques and application
62	P22PYPW	Project	<ul style="list-style-type: none"> • Understand the basic ideas about the project • Understand the working procedure of the project • Perform the procedure as the laboratory standards • Understand the values obtained and its applications



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S.NO	SUBJECT CODE	Name of the course	Course outcome
01	22LCT1	தமிழ் மரபுக்க விதை, புதுக்கவிதை முதலானவற்றை அறிமுகப்படுத்துதல். நாடகம்*, சிறுகதை, நாவல், கட்டுரை முதலான இலக்கிய வடிவங்களைக் கற்பித்தல். இக்கால இலக்கியத்தின் மீதான	தமிழ் மரபுக்க விதை, புதுக்கவிதை முதலானவற்றை அறிமுகப்படுத்துதல். நாடகம்*, சிறுகதை, நாவல், கட்டுரை முதலான இலக்கிய வடிவங்களைக் கற்பித்தல். இக்கால இலக்கியத்தின் மீதான
02	22ACCBL1	தமிழ் இலக்கியத்தின் மீதான ஆர்வம் மிகும். புதிய இலக்கிய வடிவங்களை அறிவார்.* கவிதை*, சிறுகதை, நாவல் ஆகியவ	தமிழ் இலக்கியத்தின் மீதான ஆர்வம் மிகும். புதிய இலக்கிய வடிவங்களை அறிவார்.* கவிதை*, சிறுகதை, நாவல் ஆகியவ
03	22ACCBL2	தமிழ் மரபுக்க விதை, புதுக்கவிதை முதலானவற்றை அறிமுகப்படுத்துதல். நாடகம்*, சிறுகதை, நாவல், கட்டுரை முதலான இலக்கிய வடிவங்களைக் கற்பித்தல். இக்கால இலக்கியத்தின் மீதான*	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.
04	22AFACBL1	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.
05	22UGCES	To understands the philosophy of life and values through thirukural	Apply the values in thirukural to the speaceful tutiful and responsible in family and society
06	22LCT2	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.
07	22ACCBL3	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.* எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள்*, கூறுகள் போன்றவற்றைக் கற்பித்தல்.
08	22ACCBL4	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல்.*	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தை அறிவறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும்



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16	22ACCTL7	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதாக எழுத்திலக்கணத்தை அறிவுறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல். • எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள் •, கூறுகள் போன்றவற்றைக் கற்பித்தல்.	தமிழின் ஐந்திலக்கணங்களுள் முதலாவதாக எழுத்திலக்கணத்தை அறிவுறுத்தல். தமிழ்மொழி மரபறிந்து பிழையற்ற எழுதவும் பேசவும் வழிவகுத்தல். • எழுத்திலக்கணத்தின் புணர்ச்சி வகைகள் •, கூறுகள் போன்றவற்றைக் கற்பித்தல்.
17	22ACCBL8	.ிற்றிலக்கியத்தின் பல்வேறு வகைமைகளை அறிமுகப்படுத்துதல். சிற்றிலக்கியங்களில் அமைந்துள்ள சமயம் சார்ந்த செய்திகளைக் கற்பித்தல் •	
18	22ASACBL2	.. பழந்தமிழரின் சமயச் சிந்தனைகளை அறிவுறுத்தல். ப ந்தமிழரின் கட்டடக்கலை அறிவு குறித்துத் தெளிவுபடுத்துதல். • தமிழரின் நிர்வாகத் திறன் சார்ந்த அறிவைப் பயிற்றுவித்தல். •	பழந்தமிழரின் கட்டடக்கலை அறிவைத் தெளிவு. • தமிழக மன்னர்களின் பல்வேறுபட்ட கோயிற்கலை நுணுக்கங்களை அறிவு. • தொல்பொருள் துறை •, அறநிலையத்துறையின் செயல்பாடுகள். பொதுப்புகளைக் கற்பு. கோயில் நிர்வாகக் கலை பற்றி அறிவு. • அரசுப் பணிவாய்ப்புகளில் முன்னுரிமை பெறுவர். •
19	22ANNEH12	தமிழ்ச் சொற்களின் ஆற்றல்மிகு பயன்பாட்டை அறியச் செய்தல்	
20	22ACCBL9	தமிழின் நீதி (அற) இலக்கியங்களைக் கற்பித்தல். தமிழ் நீதி இலக்கியங்களின் தனித்தன்மைகளை அறிவுறுத்தல். • நீதி இலக்கியக் காலங்களின் சமூக •, அரசியல், பொருளாதாரப் பின்னணியை உணர்.	.. தமிழ்மொழியின் நீதி (அற) இலக்கியங்கள் பற்றிய அறிவினைப் பெறுவர். தனிமனித வாழ்வியலுக்கான அடிப்படை அறங்களைக் கற்பு. • சமூக வாழ்வியலுக்கான பொறுப்பு நிலைகளை உணர்வர். • இலக்கியங்கள் வெளிப்படுத்தும் சமூகப் பொறுப்புணர்ச்சியை அறிவு. • நீதி (அற) இலக்கியங்கள் உணர்த்தும் சமூக •, அரசியல் புரிணாமங்களைக் கற்பு.
21	22ACCBL10	ஒப்பிலக்கியம் குறித்துப் பயிற்றுவித்தல். மொழியியல் கோட்பாடுகளை அறிமுகப்படுத்துதல். • அறிவியல் முறையில் மொழியியல் மாற்றங்களை உணர்த்துதல் •	ஒப்பிலக்கியம் குறித்த அறிவைப் பெறுவர். இலக்கிய வகைகளில் உள்ள கருத்தியல்புகளை அறிவு. • காலந்தோறும் வளர்ந்துள்ள இலக்கியங்களின் வடிவம் •, பொருண்மைகளை ஒப்பிடுவர். பல்வேறு இலக்கியங்களுக்குள் இருக்கும் வாழ்வியல் விழுமியங்களைக் கற்பு. • இலக்கியங்களை ஒப்பிடுவதன் வாயிலாகத் தாய்மொழி இலக்கியத்தின் சிறப்பினைத் திறனாய்வு செய்வர்.
22	22ACCB11	தமிழின் யாப்பிலக்கண மரபையும் செய்யுள் உறுப்புகளையும் கற்பித்தல். பாக்களின் வகைகளை •, இனங்களைக் கற்றுத் தருதல். தமிழ்மொழி அணி இலக்கணத்தைப் பயிற்றுவித்தல். • தமிழில் அணி இலக்கியப் புரிணாம வளர்ச்சியைக் கற்றுத் தருதல். •	தமிழ் இலக்கியப் பாடல்களின் செய்யுள் உறுப்பு முறைகளை அறிவு. • பாக்களின் வகைகளையும் இனங்களையும் தெளிவுறுக் கற்பு. • தமிழ் இலக்கிய வரலாற்றில் அணி இலக்கண மரபைத் தெளிவு. • அணிகளின் நுட்பமான வேறுபாடுகளை அறிவு. • இலக்கியங்களில் கையாளப்பட்டிருக்கும் அணிகளின்



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			வகைகளையும் சுவைகளைக் கற்பர். •
23	22ACCBL12	தமிழ் மக்களின் வாழ்வியல் விழுமியச் சிந்தனைகளைப் பயிற்றுவித்தல்	தமிழக அரசின் போட்டித் தேர்வுகளுக்கு அறிவூட்டம் பெறுவர்
24	22AMBEBL1	நாட்டுப்புற இலக்கியங்களின் சிறப்பை உணர்த்துதல். நாட்டுப்புற இலக்கியங்களின் அடிப்படைப் பண்புகளைக் கற்பித்தல். • நாட்டுப்புற இலக்கியங்களில் உள்ள சமுதாயப் பதிவுகளைப் பயிற்றுவித்தல். •	நாட்டுப்புற இலக்கியங்களின் தனித்தன்மைகளையும் சிறப்புகளையும் உணர்வர். நாட்டுப்புற இலக்கியங்கள்வழி மக்களின் வாழ்வியலை அறிவர். • தமிழ்ச் சமூகத்தின் தொன்றுதொட்ட மரபுகளைத் தெளிவர் • நாட்டுப்புற இலக்கியம் மூலம் வரலாற்றுச் செய்திகளைக் கற்பர் • நாட்டுப்புற இலக்கியங்களில் ஆய்வு செய்யும் ஆர்வம் பெறுவர். •
25	22ASBFTL1	படைப்பிலக்கியத்தின் பல்வேறு கூறுகளைக் கற்பித்தல். படைப்பிலக்கிய மொழியின் தனித்தன்மைகளை அறிவறுத்தல். • கவிதை, நாடகம், உரைநடை, சிறுகதை ஆகியவற்றின் தனித்தன்மைகளைக் கற்றுத் தருதல்.	தமிழ் யாப்பிலக்கண மரபை அறிவர். இலக்கியப் படைப்பாக்கத் திறன் பெறுவர். • நாடகங்களைப் படைக்கும் திறன் பெறுவர். • நிகழ்ச்சித் தொகுப்புகளுக்கான சொல் நயங்களையும் திறன்களையும் அறிவர். • பல்வேறு உரைநடை வகைகளைக் கையாள்வதில் பயிற்சி
26	RUCSPC	To develop communicative competence among the students	Develop listening speaking reading and writing skills in english
27	22ACCBL13	சமய இலக்கியங்களுக்கு இடையே நிலவும் பொதுத்தன்மைகளைத் தெளிவுபடுத்துதல்	அனைத்துச் சமயங்களும் வலியுறுத்தும் மனிதம் ஒன்றே என்பதை உணர்வர்.
28	22ACCBL14	யூந்தமிழரின் அகவாழ்க்கை நெறிகளைப் பயிற்றுவித்தல்	உள்ளுறை, இறைச்சி போன்ற உத்தி நுட்பங்களைத் தெளிவர்.
29	22ACCBL15	தமிழ் மொழிநடையின் முக்கியத்துவத்தைக் கற்பித்தல்	செய்யுள் மற்றும் உரைநடைகளில் பயன்படுத்த வேண்டிய குறியீடுகளை அறிவர்.
30	22AMBEBEBL3	தமிழில் நாடக இலக்கியம் தோன்றி வளர்ந்த வரலாற்றைப் பயிற்றுவித்தல். தமிழ் நாடக இலக்கியத்தின் அமைப்பு முறைமைக் கற்பித்தல். • காலந்தோறும் நாடக இலக்கியம் தந்த சமூகப் பங்களிப்பை உணர்த்துதல். •	தமிழ் நாடக இலக்கியத்தின் தொன்மையையும் சிறப்பையும் அறிவர். பண்டைய காலம் முதல் தொடர்ந்துவந்த நாடகத்தின் பரிணாமங்களைக் கற்பர். • தமிழ்ச் சமூக மாற்றத்தோடு நாடகக்கலை தொடர்ந்துவரும் தன்மையை உணர்வர். • தமிழ் நாடகங்களால் ஏற்பட்ட சமூக மாற்றங்களை அறிவர். • நாடகப் படைப்பாக்கத்திற்கான தூண்கூறுகளைப் பெறுவர். •
31	22ASEETL2	மொழித்துறையில் வளர்ந்து வருகின்ற இதழியல் கலை குறித்து மாணவர்களுக்குக் கற்பித்தல். இதழியல் கலையின் நுட்பங்களைப் பயிற்றுவித்தல். • இதழியலின் சட்டங்களை மாணவர்களுக்கு அறிமுகப்படுத்துதல் •	இதழியல் - செய்திகள் குறித்த அறிவைப் பெறுவர். செய்திகளைத் திரட்டும் முறைமைகளை மாணவர்கள் அறிவர். • இதழியலின் சட்டங்களை மாணவர்கள் தெளிவாகக் கற்பர். • செய்திகளைப் பதிப்பிக்கும் நுட்பங்களை உணர்வர். • மாணவர்கள் செய்திகளை வாசிக்கும் முக்கத்திற்கு உள்ளாகுவர். • இதழியல் சார்ந்த பணிவாய்ப்புகளுக்கு மாணவர்கள் திறனுடையவர்கள் ஆவர். •



KHADIR MOHIDEEN COLLEGE,

ADIRAMPATTINAM – 614 701

32	UGGS	Students would have gained a perspective understood the social reality of gender society.	Exposed to the kind of initiatives of the state towards gender equality
33P	PROJECT	The Project will be evaluated by an internal and an external examiner nominated by the University. The candidate concerned will have to defend his/her Project through a Viva-voce.	A candidate who gets less than 40% in the Project must resubmit the Project Report. Such candidates need to defend the resubmitted Project at the Viva-voce within a month. A maximum of 2 chances will be given to the candidate.



KHADIR MOHIDEEN COLLEGE,

ADIRAMPATTINAM – 614 701

PG AND RESEARCH DEPARTMENT OF ZOOLOGY

Programmes offered:

- **B.Sc. Zoology (Aided)**
- **M.Sc. Zoology (Aided)**
- **M.Phil. Zoology (Unaided)**
- **Ph.D. Zoology**

B.Sc. ZOOLOGY: PROGRAMME OUTCOMES(PO)

At the completion of B. Sc. in Zoology the students will be able to:

1. Acquire knowledge and skill about the basics of animal sciences.
2. Understand the nature and basic concepts of cell biology
3. Understand the process of evolution.
4. Understand the physiological processes and organ systems of animals.
5. Understand the basics of genetics in animals and human.
6. Understand the various Applications of Biotechnology
7. Understand the diversity and distribution of animals.
8. Acquire the practical knowledge of all subjects of zoology.
9. Understand the diversity and distribution of animals.
10. Understand the applied Economic Entomology, Aquaculture and Vermiculture.

B.Sc. ZOOLOGY: PROGRAM SPECIFIC OUTCOMES (PSO)

1. Analyse complex interactions among the various animals of different phyla of Invertebrates and Chordates..
2. Apply the knowledge of structural organization of cell and metabolic functions.
3. Realize the complexity of evolutionary processes and behaviour of animals.
4. Analyse the physiological processes of animals and role of organ systems.
5. Understand the concepts of genetics and its importance in human health and animal life.
6. Realize the diversity and distribution of animals and their interaction with the environment.
7. To involve in environmental conservation and protection of endangered species.

8. Perform laboratory procedures and animal experiments in Physiology, Ecology, Cell biology, Genetics, Embryology, Biochemistry, Fish biology, Animal biotechnology and Immunology.
9. Analyse the diverse distribution of animals with the environment.
10. Apply the knowledge gained in silk, honey, fish and vermicompost production.

B.Sc.ZOOLOGY: COURSE OBJECTIVES (CO)

S.No.	Subject Code	Name of the Course	Course outcomes
1.	22SCCZO1	Invertebrata	<ul style="list-style-type: none"> • Understand the principles of taxonomy and classification of invertebrates. • Acquire knowledge on the characteristic features of invertebrates. • Identify the any species at basic level of morphology. • Aware of the multiparasitism of helminthes and their dynamics in a changing world. • Understand the economic and ecological importance of Porifera, Coelenterata and Mollusca. • Realize the significance of larval forms of Echinoderms in understanding as model organisms
2.	22SCCZO1P	Practical – I Invertebrata	<ul style="list-style-type: none"> • Gain first-hand knowledge to identify and group non-chordate (species of fresh and preserved) along with larval forms. • Analyze the relationship between organisms and their environment. • Recognize the diversity from Protozoa to Echinodermata using their morphological structures. • Virtually visualize and understand the anatomy and functional features of invertebrates. • Fortify the ecological and economic importance of invertebrate diversity in their habitat.
3.	22SCCZO2	Chordata	<ul style="list-style-type: none"> • Understand about the vertebrates up to order level with suitable examples. • Gain knowledge about the adaptation and migration of important tetrapods. • Understand about the vertebrates in the food web and its diversity. • Relate about the adaptations of flightless birds and migration of birds.

			<ul style="list-style-type: none"> • <input type="checkbox"/> Perceive information on the evolutionary relationships of tetrapods
4.	22SCCZO2P	Practical – II Chordata	<ul style="list-style-type: none"> • Understand the classification of vertebrates. • Identify and recognize the organisms by key characters. • Integrate the ecological adaptation of the studied species. • Relate the adaptive behaviour of vertebrates. • <input type="checkbox"/> Virtually clarify the functional structure in tetrapods
5.	22SCCZO3	Cell and Molecular Biology	<ul style="list-style-type: none"> • Understand the principles of microscopes and cytological techniques. • Describe the structure and functions cell and cell organelles. • Recognize the properties of cytoplasm and ultra-structure of nucleus and the • metabolic machinery of the cell. • Explain cell cycle and types of cell division. • <input type="checkbox"/> Relate on molecular events of cell and in cancer biology.
6.	22SCCZO3P	Practical – III Cell and Molecular Biology	<ul style="list-style-type: none"> • Familiarize on the handling of microscopes and its applications. • Differentiate the cell cycle stages in plant / animal cells. • Infer the importance of giant chromosomes during the development of larval • stages. • Handle and perform the histological procedures and observation of stages. • <input type="checkbox"/> Relate the fundamental composition of blood components.
7.	22SCCZO4	Microbiology	<ul style="list-style-type: none"> • Apply knowledge to understand classification of microbes and its basic • characteristics. • Acquire information on methods of sterilization of microbial cultures and • requirements for the media preparation. • Attain knowledge about the interactions of microbes with their ecosystem. • Perceive the role / action mechanism microbes on food spoilage and the • principles of food preservation. • <input type="checkbox"/> Comprehend various diseases caused by the microbes and its treatments.
8.	22SCCZO4P	Practical – IV Microbiology	<ul style="list-style-type: none"> • Enrich the knowledge on handling microbes in laboratory conditions.

			<ul style="list-style-type: none"> • Comprehend the diversity of microbes in various environments. • Understand the methods of the culture of bacterial strains in laboratory conditions. • Perceive information on the morphological identification of various microbes. • <input type="checkbox"/> Acquire knowledge of pathogenic and non-pathogenic microbes.
9.	16SCCZO5	Animal Physiology	<ul style="list-style-type: none"> • Understand and analyze the nutritional requirements and its calorific values. • Explain and recognize the physiological structure and functions of various organs. • Gain anatomical knowledge in predicting the physiological changes and its consequences. • Understand and relate the physiological activity of sensory organs. • <input type="checkbox"/> Distinguish the types and functions of endocrine glands.
10.	16SCCZO6	Genetics and Evolution	<ul style="list-style-type: none"> • Comprehend and understand the chemical basis of evolution. • Understand about one role of genetics in evolution. • Evolve conclusion that are based on genetics data. • Relate the origin of species on earth by observed theories and experiments. • <input type="checkbox"/> Describe evolutionary history of Vertebrates.
11.	16SCCZO7	Microbiology	<ul style="list-style-type: none"> • Apply knowledge to understand classification of microbes and its basic characteristics. • Acquire information on methods of sterilization of microbial cultures and requirements for the media preparation. • Attain knowledge about the interactions of microbes with their ecosystem. • Perceive the role / action mechanism microbes on food spoilage and the principles of food preservation. • <input type="checkbox"/> Comprehend various diseases caused by the microbes and its treatments.
12.	16SCCZO3P	Practical – III Animal physiology, Genetics and Evolution & Microbiology	<ul style="list-style-type: none"> • Perform physiological and biochemical assays. • Carry out qualitative and quantitative estimations of various biomolecules. • Expertise in the quantification of RBC and WBC of human blood and identify

			<ul style="list-style-type: none"> • pH of any sample. • Gain knowledge on the importance of heredity of all living organisms. • Acquire idea about the blood types and its grouping. • Understand the concept of Mendelian traits and pedigree concept. • Realize the paleontological evidences of evolution of organisms. • Be aware on the concept of mimicry and colouration. • Enrich the knowledge on handling microbes in laboratory conditions. • Comprehend the diversity of microbes in various environments. • Understand the methods of the culture of bacterial strains in laboratory conditions. • Perceive information on the morphological identification of various microbes. • <input type="checkbox"/> Acquire knowledge of pathogenic and non-pathogenic microbes
13.	16SMBEZO1:2	Economic entomology	<ul style="list-style-type: none"> • Acquire knowledge on classification of pests and beneficial insects. • Have an elaborative idea about pests on stored products. • Gain Knowledge on commercial insects and usage in the field of agriculture. • Learn in depth on ideas about role of vectors in medicinal purposes. • <input type="checkbox"/> Attain deep knowledge on pest management strategies
14.	16SCCZO8	Environmental Biology	<ul style="list-style-type: none"> • Understand the basic components on environment. • Acquire knowledge on complex food chain/web of different ecosystems. • Create ideology and promotes to conserve / formation of community / an ecosystem. • Know about various effects of pollutions and its preventing measures. • <input type="checkbox"/> Gain knowledge and awareness about conservation / management of biodiversity.
15.	16SCCZO9	Developmental Biology	<ul style="list-style-type: none"> • Understand the basic theories of development of embryo and its stages. • Compare the formation of gametogenesis in the various Invertebrate and Vertebrates. • Relate the process of fertilization with the onset of cleavage and gastrulation process.

			<ul style="list-style-type: none"> • Know the basics of development of organs, functions of extra embryonic membranes and physiology of placenta. • Logically view the concept infertility, birth control and applications of • cryopreservation techniques
16.	16SMBEZO2:2	Immunology	<ul style="list-style-type: none"> • Understand the difference types of natural and acquired immunity. • Comprehend the Classification of immunoglobulins and their roles during antigenic response. • Relate various mechanisms that regulate immune responses. • Realize the adverse effects of immune system causing autoimmune disorders and therapeutic advancements. • Perceive the applications antigen-antibody interactions by immunological techniques.
17.	16SMBEZO3:2	Biophysics & Biostatistics	<ul style="list-style-type: none"> • retrieve molecular information from a variety of databases. • Understand the theory behind the sequential analysis and apply the • bioinformatics tools used in the sequence alignment • Perceive the micro techniques for the detection of molecules in living cells.
18.	16SCCZO4P	Practical – IV Environmental Biology & Developmental Biology	<ul style="list-style-type: none"> • Focus and differentiate the cell morphology and count of blood cells. • Get practice on methods of cell study. • Gain knowledge and skill to measure the size and volume of cells using ocular and stage micrometers. • Know the cause and impact of environmental pollution and the steps to control it. • Be aware on environmental toxins and toxicological screening methods • Gain knowledge of different components of ecosystems

M.Sc. ZOOLOGY: PROGRAMME OUTCOMES (PO)

1. Identify the common animals and comprehend the taxonomy, phylogeny and biodiversity of animals.
2. Demonstrate and solve major concepts in all disciplines of Zoology.
3. Enhance the technical skills for experimental purposes.
4. Correlate the diversity of animals and their interaction with the environment.

5. Analyse the morphology and functional characteristics at cellular and sub-cellular (molecular) level.
6. Strengthen the genetics and cytogenetics principle in light of advancements in understanding human genome and genomes of other model organisms.
7. Development of zoological science for its application in aquaculture, fishery biology and vermiculture technology.
8. Focusing to prepare them with research-oriented approach in frontier areas of research in Zoology
9. Understand the basic principle of instruments and application of techniques.
10. Development of theoretical and practical knowledge in handling the animals and using them as model organism.

M.Sc. ZOOLOGY: PROGRAM SPECIFIC OUTCOMES(PSO)

1. Apply the concepts of taxonomy, cytology, physiology, genetics, ecology and applied zoology.
2. Perform laboratory procedures in Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Biotechnology, Immunology and Research methodology.
3. Use of biostatistical tools and computer applications for all biological activities related to human beings.
4. Create Perspectives and positive attitude towards sustainable development and self-employment.
5. Gain knowledge about research methodologies, bioethics, effective communication and skills of problem solving methods.
6. Advanced applications of the scientific method and use in the basic and applied zoological sciences.
7. Lead to advances in immunity to prevent disease human beings.
8. Carry out the experimental techniques and statistical analysis methods appropriate to the course.
9. Develop competence in the design and execution of research and key transferable skills such as group work, presentation and report writing.
10. Make use of critical analysis of the principles of modern techniques, recent equipments, Zoology softwares for biological experiments.

M.Sc. ZOOLOGY: COURSE OBJECTIVES (CO)

S.No.	Subject Code	Name of the Course	Course outcomes
1	P22ZOCC11	Structure and Function of Invertebrates	*Classify the animal species based on the characteristic features. * Identify the behavior pattern of various invertebrates.

			<p>* Explain the similarities and differences in the morphology of organs in a functional view.</p> <p>*Describe and signify the role of larval forms of invertebrates in the ecosystem.</p> <p>*Understand the concept of regulation among species.</p>
2	P22ZOCC12	Comparative Anatomy of Vertebrates	<p>*Understand the morphology and functional anatomy of chordates.</p> <ul style="list-style-type: none"> • Relate the comparative anatomy of vertebrate integument and digestive system according to their habit and habitat. <p>*Analyze the integration of physiology of circulation and respiration in Vertebrates.</p> <p>*Compare the distinct organ structure of vision, hearing, olfaction, taste, etc.,</p> <ul style="list-style-type: none"> • Gain detailed knowledge about the complexity of the skeletal and urinogenital systems in vertebrates.
3	P22ZOCC1A	Molecular Genetics	<p>*Comprehend the ultra-structure of a gene.</p> <ul style="list-style-type: none"> • Acquire wide knowledge of the organization of genome. • Learn the techniques and tools in molecular genetics. • Gain knowledge on DNA sequencing and construction of genomic library. • Understand the techniques in construction of transgenic organisms and pharmacogenomics.
4	P22ZOCC1P	Structure and Function of Invertebrates and Comparative Anatomy of Vertebrates	<p>*Comprehend the adaptation and interactions of various species of invertebrates.</p> <p>*Understand the importance of protozoan and helminth parasites</p> <ul style="list-style-type: none"> • Identify the behavior and significance of various invertebrates and their larval forms. <p>*Compare the functional morphology and regulation of vertebrates.</p> <ul style="list-style-type: none"> • Acquire knowledge about morphological features and ecological significance• of minor phyla
5	P22ZOEIA	Applied Biotechnology	<p>*Understand the diverse role/applications of rDNA technology in human welfare.</p> <p>*Analyse the methods of expression of transgenics and their usage.</p> <ul style="list-style-type: none"> • Evaluate the role of genetically modified organisms in the sustenance of the green revolution.

			<p>* Comprehend the designing of fermentors and the selection of potential microbes used widely in fermentation technology.</p> <p>* Enrich the knowledge on the usage of suitable microorganisms in in-situ and ex-situ bioremediation techniques.</p>
6	P22ZOVAC1	Ornamental Fish culture	<p>*Discuss proficiently about the strategies involving in ornamental fish culture.</p> <p>* Understand the current status of ornamental fish marketing.</p> <ul style="list-style-type: none"> • Gain practical knowledge of culturing of live feed. • Create their own idea on aquascaping technique for the ornamental fish culture maintenance. <p>*Identify and know the preventive strategies on ornamental fish diseases and management.</p>
7	P22ZOCC21	Developmental Biology	<p>*Understand the basic concepts of development. Compare the formation of gametes and their molecular regulation.</p> <ul style="list-style-type: none"> • Understanding the knowledge of fertilization initiates the cleavage and gastrulation process. <p>*Integrate organogenesis in frogs and metamorphosis in amphibians and insects.</p> <p>*Stimulate the functional importance of hormones in aging, infertility, birth control, and superovulation.</p>
8	P22ZOCC22	Cell and Molecular Biology	<p>*Obtain knowledge of membrane structure and functional organization.</p> <p>*Understand the ultra-structure and functions of vital cellular organelles and specialized giant chromosomes.</p> <p>*Compare the intracellular and extracellular responses in the cell cycle, DNA replication, and DNA repair mechanisms.</p> <p>*Understand the process of gene expression and relay knowledge on molecular mechanisms of protein synthesis.</p> <p>* Perceive the complexities in membrane transport and cell communications.</p> <ul style="list-style-type: none"> • Relate the normal and cancer cells and types of tumor.
9	P22ZOCC2A	Environmental Biology	<p>*Gain knowledge of different components of ecosystems.</p> <p>*Obtain practical ideology/knowledge on environmental monitoring software</p>

			<p>like GIS and GPS. *Understand the basic ecoinformatics and its role.</p> <ul style="list-style-type: none"> • Know the cause and impact of environmental pollution and the steps to control it. <p>*Be aware on environmental toxins and toxicological screening methods.●</p>
10	P22ZOCC2P	Developmental Biology and Cell and Molecular Biology	<p>*Understand the principles involved in the isolation of DNA / plasmid DNA.</p> <p>*Focus and differentiate the cell morphology and count of blood cells.</p> <ul style="list-style-type: none"> • Get practice on methods of cell study. • Understand the process and gains the skill to prepare slides for different stages of mitosis. <p>*Gain knowledge and skill to measure the size and volume of cells using ocular and stage micrometers.</p>
11	P22ZOE2B	Aquaculture	<p>*Proficiently discuss the basics of aquaculture practices.</p> <p>*Understand the types of aquaculture systems and its significance.</p> <ul style="list-style-type: none"> • Differentiate the types of mariculture and its management for various culture systems. <p>* Gain knowledge on major bacterial, viral, protozoan, and fungal diseases in aquaculture.</p> <p>*Signify the current status of the fish trade and marketing methodologies in● India.</p>
12	P22ZOCHNME1	Chemistry of pollution , Food and cosmetics	
13	P22ZOCC31	Biochemistry	<p>*Understand the major interactive forces on biomolecules.</p> <p>* Explain the metabolism of biomolecules and their functions.</p> <ul style="list-style-type: none"> • Highlight the enzymatic role of molecules and their reactions. • Correlate physiological and biochemical pathways. • Discuss and solve the thermodynamic principles and problems respectively.
14	P22ZOCC32	Comparative Animal Physiology	<p>*Understand and relation of adaptations and mechanism of homeostasis in Vertebrates.</p> <p>*Know the importance of nutrients and the controlling process in the● regulation of digestion.</p> <p>*Comprehend the mode of action of circulation, respiration, and excretion.</p> <ul style="list-style-type: none"> • Analyze the physiology of effectors, receptors, and neuronal conduction in somatic regulation.

			*Perceive the physiology of reproductive organs and apply the techniques for infertility management.
15	P22ZOCC3A	Microbiology	<p>*Understand the fundamental concepts and characteristic nature of the microbes.</p> <p>*Perceive knowledge about microbial genetics, culture, and its applications.</p> <ul style="list-style-type: none"> • Aware about the beneficial microbes for the safeguarding of the environment. • Analyze the importance of microbes in product commercialization. • Comprehend microbial disease management, symptoms, diagnosis, and treatments.
16	P22ZOCC3P	Comparative Animal Physiology and Biochemistry	<p>*Enrich their practical knowledge of various sample biochemical analyses.</p> <p>*Understand the physiology of circulation, respiration, excretion, and muscle structure from a laboratory.</p> <p>*Relate the adaptations, mechanism of homeostasis, and osmoregulation in aquatic vertebrates.</p> <p>* Identify the components of blood that are capable of fine smearing.</p> <ul style="list-style-type: none"> • Determine the amount of carbohydrates, proteins, and lipids in any biological samples.
17	P22ZOE3B	Sericulture	<p>*Understand the economic and ecological impacts and income generation by sericulture as an agro-based industry.</p> <p>*Enrich the knowledge about the basic biology of silkworm production.</p> <ul style="list-style-type: none"> • Expertise in taxonomy, morphology, and identifying life cycle stages of the silkworm. • Relate the strategies involved in the sericulture management system. • Acquire knowledge about the technologies and the role of government and nongovernmental sectors in sericulture.
18	P22ZOCHNME2	Chemistry in day- to-day life	
19	P22ZOCC41	Immunology	<p>*Understand the difference between natural and acquired immunity. Classify the role of immunoglobulins and understand vaccine production.</p> <ul style="list-style-type: none"> • Realize the various mechanisms that regulate immune responses. • Understand the structure and function of antibodies and immunological techniques. <p>*Comprehend the adverse effect of the</p>

			immune system causing autoimmune disorder.
20	P22ZOCC42	Evolution	<p>*Understand the process and evidence of evolution. Gain knowledge of the theories regarding evolution.</p> <ul style="list-style-type: none"> • Get deep knowledge of types of the evolutionary process. • Comprehend the population genetics and conservation. • Get an in-depth understanding of molecular evolution.
21	P22ZOIBC	Vermitechnology	<p>*Acquire knowledge about the scope of vermitechnology.</p> <p>* Differentiate the environmental factors affecting the vermicompost unit.</p> <ul style="list-style-type: none"> • Generate income from selling organic manures made from household - solid wastes. <p>* Be aware of the impact of vermicompost over other fertilizers for a sustainable environment.</p> <p>*Understand the advantages of vermitechnology and can implement environment-friendly techniques in the future.</p>
22	P22ZOPW	Project Work	
23	P22ZOVAC2	Nanobiotechnology	<p>*Acquire mastery of synthesis procedures and their chemical interactions.</p> <p>*Understand the fundamental applications of various analytical instruments.</p> <ul style="list-style-type: none"> • Understand the usage of biosensor devices for the early detection of infectious diseases. <p>*Apply bionanomaterials in biomedical research and therapeutic applications.</p> <ul style="list-style-type: none"> • Profile the individual nanomaterial toxicity profile and mechanistic pathways.