

**KHADIR MOHIDEEN COLLEGE,
ADIRAMPATTINAM – 614 701**

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.

Course Outcomes:

Sl.No	Sub Code	Name of the course	Course outcome
01.	16SCCBO1	Bacteria, Viruses, Algae, Fungi And Lichen	<ul style="list-style-type: none">➤ Discuss about importance of morphological structure, classification, reproduction and economic importance of Algae.➤ Study and impart knowledge about the general Characteristics, structure, reproduction, life history and economic importance of fungi.➤ Understand the features of Lichens.

02.	16SCCBO2	Plant Pathology And Plant Protection	<ul style="list-style-type: none"> ➤ Plant pathogenesis, classification and host-parasite interaction. ➤ Plant diseases in crops and their management, significant contributions of plant pathologists and usage of various techniques in plant protection. ➤ Distribution, classification, structure, physiology, reproduction and function of lichens. ➤ Significance of ectomycorrhiza and endomycorrhiza.
03.	16SCCBO3	Bryophytes, Pteridophytes, Gymnosperms Andpaleobotany	<ul style="list-style-type: none"> ➤ Salient features of Bryophytes, Pteridophytesand Gymnosperms. Structure and reproduction of various genera ➤ Salient features and importance of fossils and fossilization process in tracing evolution.
04.	16SNMEBO1	Biofertilizers And Biopesticides	<ul style="list-style-type: none"> ➤ Biofertilizers and their cultivation mycorrhiza and their isolation and production. ➤ knowledge on pesticides and their control by biopesticides, including their production and commercialization
05.	16SCCBO4	Anatomy And Embryology	<ul style="list-style-type: none"> ➤ Basics of tissues and anatomical features of plants. ➤ To impart the knowledge about the various aspects of morphogenesis. ➤ To understand the key aspects of embryology of Angiosperms
06.	16SNMEBO2	Non–Major Elective Horticulture	<ul style="list-style-type: none"> ➤ study the importance of horticultural crops and their propagation methods ➤ Types of gardens and their establishment. ➤ To educate floriculture and fruit culture, green house and nursery management
07.	16SCCBO5	Cell And Molecular Biology	<ul style="list-style-type: none"> ➤ To study microscopy, cell organelles of Prokaryotic and Eukaryotic cells, chromosomes, cell divisions, DNA and RNA. ➤ Gene regulation and chloroplast and mitochondria genome organization.

08.	16SCCBO6	Genetics, Biostatistics And Evolution	<ul style="list-style-type: none"> ➤ Mendelian Genetics, Recombination of Chromosomes, Structure and Function of Genes. ➤ Mutation Impart Knowledge On Biostatistics ➤ Applications Biological Experiments ➤ Of Evolution and Population Genetics.
09.	16SCCBO7	Morphology, Taxonomy And Economic Botany	<ul style="list-style-type: none"> ➤ 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
10.	16SMBEBO1	Major-Based Elective Medical And Applied Botany	<ul style="list-style-type: none"> ➤ 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 ➤ To understand the techniques involved in the cultivation of edible mushrooms
11.	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 ➤ To know the application of the laws of physics in biological phenomena
12.	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 students to become managers of various ecological systems

13.	16SMBEBO2	Major-Based Elective Ii Plant Breeding, Horticulture Andlandscaping	<ul style="list-style-type: none"> ➤ the various methods of plant breeding and plant propagation ➤ teaches students the art of growing plants for a pre-defined purpose and pleasure and facilitates students to become an entrepreneur
14.	16SMBEBO3	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 ➤ To understand how mere jumbling of genes results in the creation of new organisms

PG & RESEARCH DEPARTMENT OF BUSINESS ADMINISTRATION

Programmes offered:

- **BBA (Aided)**
- **MBA (Unaided)**
- **M.Phil. (Unaided)**
- **Ph.D.**

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".

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:

SE M	Name of the Course	Subject Code	Course outcome
I	Core Course I (CC) Management Concepts	16CCBB1	Students will get familiar with the basic concepts applied in contemporary management practice and many of the concepts learnt will form the foundation for subsequent courses in strategy, operations and HRM in subsequent Semesters.
	Core Course II (CC) Financial Accounting	16CCBB2	Show proficiency in basic accounting concepts, conventions and understanding of the accounting Process. Understand the process and preparation of financial statements for Sole Proprietorship and Company and Departmental Business Organizations
	Allied Course I Managerial Economics	16ACBB1	Students will learn How consumers make decision How firms analyze market demand How firms analyze their internal costs How firms interact in different market structures and make price, output decision
	Value Education	18UGVED	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	Core Course III (CC) Marketing Management	16CCBB3	Understand the application of marketing strategy into corporate strategy Learn to apply marketing strategy under different market conditions and business challenges Learn to bring innovation in the marketing strategy and achieve marketing plan objectives
	Core Course IV Mathematics & Statistics for Managers	16CCBB4	Students understand and the basic mathematical and statistical tools and promote the ability to appropriate statistical techniques in business and help students analyze management problems in research and decision making.
	Allied Course II Business Environment	16ACBB2	Students to promote basic understanding of the concepts of business environment And to provide broad knowledge on domestic and international environment and make learners the impact of environment on business.
	Environmental Studies	16UGCES	Students to understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving.
III	Core Course V Managerial Communication	16CCBB5	Students understand the significance and principles of communication and help them to acquire adequate skills in business correspondence and to enable students to write reports and speeches on topics related to business.
	Core Course VI Computer Applications in Business (Theory + Practical)	16CCBB6 16CCBB6P	Students to understand the basic concepts in computer applications and to give in-depth knowledge of documentation through MS Office packages and help them to apply various accounting procedures through TALLY software.

	Allied Course III Business Law	16ACBB3	Students will understand the basic provisions of Company and Industrial Law and therein after the completion of the course, Students will be able to – Understand the legal system prevailing Into practice.
	Non-Major Elective – I Working Principles of Internet / Special Tamil	16SNMECS1 / 16 LCST1	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 system.
IV	Core Course VII Organizational Behaviour	16CCBB7	Through this course student will be able to explore various dimensions of Human Resource Management and will find new career opportunities in the same It will provide hands on experience to work on industry assignments and gain practical knowledge Case Study discussions will provide simulations to think as an HR strategist and design an appropriate solution
	Core Course VIII Operations Research	16CCBB8	Understanding of the practical Applications of the subject. Development of analytical thought Process to help develop modeling.
	Allied Course IV Production Management	16ACBB4	Understand the nature and importance of production management Comprehend the principles and areas of application of shop floor management and know the operations and skills needed for major decisions in material management.
	Non-Major Elective – II Fundamentals of Information Technology / Special Tamil	16SNMECS2 / 16 LCST2	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.
	Skill Based Elective – I Introduction to Office Management	16RSBE7:1	Understanding and defining the crucial role of an office manager. Identify the keys to robust and effective organisation. Understanding the role of budgets in office management.

V	Core Course IX Cost Accounting	16CCBB9	To enable students to conceptualize Various methods and techniques of cost accounting and its application.
	Core Course X Financial Management	16CCBB10	Students should be able to show Analytical skills in short term and long-term decision making.
	Core Course XI Company Law and Secretarial Practice	16CCBB11	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.
	Core Course XII Research Methods in Management	16CCBB12	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.
	Major Based Elective – I Services Marketing	16MBEBB1	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 services in the liberalized business environment.
	Skill Based Elective – II Office Management Tools	16RSBE7:2	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.
	Skill Based Elective – III Communication & Interpersonal Skills	16RSBE7:3	Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.
	Soft Skills Development	RUGSDC	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	Core Course XIII Human Resource Management	16CCBB13	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.
	Core Course XIV Management Accounting	16CCBB14	Students should acquire the basic knowledge required for application of tools for decision making.
	Core Course XV Entrepreneurial Development	16CCBB15	The students will be able to design successful Business Plan in order to set-up a venture in future. The students will become more capable in self-employment.
	Major Based Elective – II Management Concepts in Thirukkural	16MBEBB2	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.
	Major Based Elective – III Global Business Management	16MBEBB3	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.
	Extension Activities** Gender Studies	UGGS	Students will be adept at considering gender in diverse national and international contexts as a result of studying the multiple and contested 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.

MASTER OF BUSINESS ADMINISTRATION

Programme Objective:

- To equip the students with requisite knowledge, skills & right attitude necessary to provide effective leadership in a global environment.
- To develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy and Society, aligned with the national priorities.
- To develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem.
- To harness entrepreneurial approach and skill sets.

Programme outcomes: (For MBA)

- Understanding and operating with ethical and professional responsibility
- Ability to communicate effectively and function efficiently on multidisciplinary teams.
- Ability to use modern management principles and tools needed in contemporary business within the bounds of practical Constraints such as economic, environmental, social, political, ethical, health and safety and sustainability.
- Develop skills to be a life-long learner for a globalized business for future.
- Hone entrepreneurial skills to provide innovative solutions for the needs of mankind.

Programme Specific outcomes:

Following PSOs have been defined:

A post-graduate will have

- i. An ability to apply knowledge, skills and right attitude necessary to provide effective leadership in a global environment.
- ii. An ability to develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities.
- iii. An ability to develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem.
- iv. An ability to communicate effectively.

Course Outcomes:

SEM	Name of the Course	Subject Code	Course outcome
I	Core – I: Management concepts	P16MBA1	To expose the students to fundamental concepts of management. To acquaint students with the management process, which includes understanding the theory behind the practical application of management.
	Core – II: Managerial Communication	P16MBA2	This course aims to develop all forms of communication skills of the students to enable them to conduct well in any business process without any communication barrier. To train students to enhance their skills in written as well as oral Communication through practical conduct of this course. This course will help students in understanding the principles & techniques of business communication.
	Core – III: Mathematics & Statistics	P16MBA3	This course mainly deals with the use of Mathematical and Statistical concepts in the resolution of managerial decision problems. As such the course will deal not only with some of the theoretical concepts in Mathematics and Statistics but will also be concerned with their application.
	Core – IV: Managerial Economics	P16MBA4	This course is aimed at building a perspective necessary for the application of modern economic concepts, precepts, tools and techniques in evaluating business decisions taken by a firm. The course will also look at recent developments in business in the context of economic theory.
	Core – V: Organisational Behaviour	P16MBA5	The objectives of the course is to familiarize the participants with the behavioural patterns of human beings at individual and group levels in the context of an Organization.

	Core – VI: Management Accounting	P16MBA6	The purpose of this course is to impart basic knowledge of both financial and cost accounting so that students are able to understand financial statements and reports to make decisions.
II	Core – VII: Operation Research	P16MBA7	The objectives of the course is to acquaint the student with the applications of Operations Research to business and industry and help them to grasp the significance of analytical techniques in decision making. Students will be tested on the application of Operations Research to business related problems.
	Core – VIII: Production Management	P16MBA8	To acquaint the students with decision making in Planning, Scheduling and control of Production functions in both manufacturing and services.
	Core – IX: Marketing Management	P16MBA9	This course aims at making students understand concepts, philosophies, processes and techniques of managing the marketing operations of a firm.
	Core – X: Financial Management	P16MBA10	The purpose of this course is to acquaint the students with the broad framework of financial decision making in a business unit.
	Core – XI: Human Resource Management	P16MBA11	This course aims at introducing the students to various aspects of human resources management. The important functions of a human resources manager such as recruitment and selection processes interview methods. Performance appraisal, training and development, disciplinary procedures, collective bargaining and employee welfare.

	Core – XII: Research Methods in Management	P16MBA12	This course aims at equipping students with an understanding of the research process, tools and techniques in order to facilitate managerial decision-making.
III	Core – XIII: Strategic Management	P16MBA13	To create an awareness of the importance of strategic approach to managerial situations and issues in the context of globalization and liberalization trends.
	Core – XIV: Legal aspects of Business	P16MBA14	To provide a basic understanding of various statutory provisions that confronts business managers while taking decisions.
	Core – XV: Knowledge Management	P16MBA15	To make the students realize the importance of capturing knowledge elements and its structures application as a competitive advantage to business.
	E-Course-I: Consumer Behaviour	P16MBA 3EM1	To enable students to understand the process of consumer behavior, the various external and internal factors that influence consumer behaviour and to apply this understanding to the development of marketing strategy.
	E-Course-II: Business to Business Marketing	P16MBA 3EM2	To expose the various concepts of Industrial marketing to students who have had a foundation course in marketing.
	E-Course-III: Sales and Distribution Management	P16MBA 3EM3	To acquaint the student with the concepts to develop a sound sales and distribution policy and in organising and managing sales force and marketing channels.
	E-Course-I: Strategic Financial Management	P16MBA 3EF1	To acquaint the students with concepts of Financial management from strategic perspective and to familiarize various Techniques and Models of Strategic Financial Management.

E-Course-II: Financial services	P16MBA 3EF2	To provide an understanding of the fund-based and fee-based financial services offered by financial intermediaries such as non-banking finance companies, banks and financial institutions and also gives some insights into the operations of the Indian Stock Market.
E-Course-III: Security Analysis & Portfolio Management	P16MBA 3EF3	This course provides (a) an understanding of the conceptual framework underlying Security Analysis & Portfolio Management and (b) an appreciation of the regulatory and tax framework circumscribing investment in securities; and (c) some insights into the operations of the Indian Stock Market.
E-Course-I: Organisation Development	P16MBA 3EH1	To enable the students to understand the philosophical, historical, theoretical, political and practical underpinnings of OD as a core area of practice within HRD and to increase awareness of different tools that are used to diagnose organizations as well as interventions used through hands-on experience, enhance skills in facilitation, OD skills, group process, communication, and collaboration.
E-Course-II: Compensation Management	P16MBA 3EH2	This course gives an introduction to compensation principles and practices. The goal of the course is to give students an opportunity to comprehend the variety of theories and methods used to recruit, retain and reward employees.
E-Course-III: Change Management	P16MBA 3EH3	To study how environmental events affect organizations and drive the need for continuous change • Analyze change at the individual, group, and systemic levels • Contrast planned and unplanned change • Evaluate and apply integrative models for assessing, diagnosing, and implementing the need for change • Identify the role of leaders and managers, change agents and change recipients in various stages of organizational change.

	Managerial Skills	P16MBA MS	To enable the students to learn the art of getting things done in the modern business world by learning topics like lateral thinking, decision making, balancing work and life, corporate social responsibility, and work ethics.
IV	Core – XVI: International Business Environment	P16MBA16	To acquaint the students to emerging global trends in business environment.
	Core – XVII: Entrepreneurial Development	P16MBA17	To provide a basic frame-work to start a small / medium scale business / Industrial Unit. And preparation of Project profile / Report on a line of manufacture / business / service unit of actual interest to the participant – bankable project report taking into account technical feasibility, financial viability, requirements of financial institutions / commercial banks etc.,
	Core – XVIII: Total Quality Management	P16MBA18	This course aims to familiarize the TQM concepts and to develop an insight into the uses of Total Quality Management tools.
	E-Course-IV: Advertising and Sales Promotion	P16MBA 3EM4	The aim of the paper is to acquaint the students with concepts, techniques and give experience in the application of concepts for developing an effective advertising and Sales Promotion programme.
	E-Course-V: Marketing of Services	P16MBA 3EM5	To provide a perspective on the concepts, framework and analytical procedures available to service marketers to resolve the various challenges faced in different situations.
	E-Course-VI: Retail Management	P16MBA 3EM6	This course will focus on (i) Manufacturers perspective on retailers. (ii) Retailers understanding of the retail business.
	E-Course-IV: Project Management	P16MBA 3EF4	This course enables the students to get enrich in the concepts of project management and to help the students in project planning and scheduling.

E-Course-V: Global Financial Management	P16MBA 3EF5	This course enriches the students with the concepts of International Financial markets. It also gives an insight into merits and effects of Foreign Direct Investments.
E-Course-VI: Merchant Banking	P16MBA 3EF6	To help students to learn the various concepts in merchant banking and its role in appraisal of projects. To help the students to know about insurance industry.
E-Course-IV: Public Relations Management	P16MBA 3EH4	To understand the role of public relations in building and maintaining a healthy corporate image and to gained working knowledge of the various tools used in public relations.
E-Course-V: Managing Interpersonal Effectiveness	P16MBA 3EH5	To help the students to understand their self. To give an insight into changing attitude and environment influence. It also helps the students to understand the concepts of stress.
E-Course-VI: Group Dynamics	P16MBA 3EH6	To help the students understand the concepts in group dynamics and to learn the process of decisions making in groups. To know the factors affecting the integration in groups and how to overcome it.

PG and RESEARCH DEPARTMENT OF CHEMISTRY

Programmes Offered:

- **B.Sc. (Aided)**
- **M.Sc. (Aided)**
- **M.Sc. (Unaided)**
- **M.Phil. (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

Subject Code	Title of paper	Course Outcome
16SCCCH1	GENERAL CHEMISTRY I	1. To learn the periodic properties of elements and its classifications. 2. To understand the theoretical aspects of qualitative and quantitative analyses. 3. To understand the basics of alkanes, reactive intermediates and reaction mechanisms. 4. To learn about the chemistry of cycloalkanes, alkenes and alkynes. 5. To learn about the types, preparation and properties of sols, colloids and emulsions and the determination of molecular weight of macromolecules.
16SCCCH1P	VOLUMETRIC ANALYSIS (P)	1. To learn the techniques of titrimetric analyses. 2. To know the estimation of several cations and anions. 3. To know the estimation of total hardness of water.

16SCCCH2	GENERAL CHEMISTRY – II	<ol style="list-style-type: none"> 1. To understand the principles of bonding and theories of chemical bonding. 2. To understand the chemistry of S-block elements and metallurgy of zero group elements. 3. To understand the aromatic character of benzene type molecules and to learn the reaction mechanisms involved in haloalkanes and halobenzenes. 4. To understand about the properties of atoms, characteristics, effect of radiations and the significance of wave functions.
16SCCCH3	GENERAL CHEMISTRY – III	<ol style="list-style-type: none"> 1. To learn the chemistry of p-block elements. 2. To study about the preparations and properties of interhalogen compounds. 3. To understand the arrangement of atoms in space, isomers and their nomenclature. 4. To learn about the gas laws, properties of real gases and types of molecular velocities. 5. To learn the types, structure and properties of solids and liquid crystals.
16SCCCH2P	SEMIMICRO ANALYSIS (P)	To learn the techniques of semimicro qualitative analysis of inorganic salt mixtures.
16SNMECH1	CHEMISTRY IN EVERY DAY LIFE	To learn the scientific and chemical principles underlying in water chemistry, agricultural chemistry, food chemistry, cosmetic and other materials such as drugs, polymers, fibers and dyes.
16SCCCH4	GENERAL CHEMISTRY – IV	<ol style="list-style-type: none"> 1. To learn the general characteristics of d and f block elements. 2. To understand the reactions of organometallic compounds, alcohols, phenols and ethers. 3. To learn about the fundamental concepts of first law of thermodynamics, to relate heat, work and energy and to calculate work from pressure – volume relationships. 4. To learn about the fundamental concepts of rate of the reaction, determination of order of the reaction and theories of reaction rates.
16SNMECH2	HEALTH CHEMISTRY	<ol style="list-style-type: none"> 1. To know the essentials of health and drugs. 2. To learn the functions of enzymes, hormones and body fluids 3. To know common diseases and their treatment
16SCCCH5	INORGANIC CHEMISTRY – I	<ol style="list-style-type: none"> 1. To understand the basics and theories of coordination compounds. 2. To study a few biologically important coordination compounds. 3. To understand the preparation and properties of nitrosyl compounds 4. To learn the basic principles and applications

		of magnetic properties.
16SCCCH6	ORGANIC CHEMISTRY I	<ol style="list-style-type: none"> 1. To learn the reactions of carbonyl compounds, carboxylic acids, amines, heterocycles. 2. To know the requirement of the oxidation and reducing agents for synthesis.
16SCCCH7	PHYSICAL CHEMISTRY I	<ol style="list-style-type: none"> 1. To know the various concepts of photochemistry and group theory. 2. To learn the second law of thermodynamics, carnot cycle, carnot theorem, entropy, free energy and Maxwell's relations. 3. To learn the third law of thermodynamics, Van't Hoff isotherm, Clausius –Clapeyron equation and Nernst heat theorem. 4. To understand the laws and properties of solutions. 5. To learn the fundamental concepts of phase rule and its applications to one, two and three component systems.
16SCCCH3P	PHYSICAL CHEMISTRY (P)	<ol style="list-style-type: none"> 1. To learn the fundamentals of conductometric and potentiometric titrations. 2. To understand the method of determination of molecular weight, CST, TT and rate constant.
16SMBECH1:1	ANALYTICAL CHEMISTRY	<ol style="list-style-type: none"> 1. To know the storage and handling of various chemicals and first aid procedures. 2. To learn data analysis, various separation techniques. 3. To learn gravimetric analysis and various thermo analytical methods. 4. To learn visible spectrophotometry and colorimetry. 5. To know the various electroanalytical techniques.
16SMBECH1:2	MATERIAL & NANO CHEMISTRY	<ol style="list-style-type: none"> 1. To study the types of ionic crystals and defects in solids. 2. To learn the different kinds magnetic properties. 3. To learn the basic concepts of nanomaterial's and their applications.
16SCCCH8	ORGANIC CHEMISTRY II	<ol style="list-style-type: none"> 1. To learn the chemistry of carbohydrates, proteins, vitamins, alkaloids and terpenoids. 2. To understand the rearrangements and spectroscopy techniques for the elucidation of structures.
16SCCCH9	PHYSICAL CHEMISTRY II	<ol style="list-style-type: none"> 1. To learn the various concepts of electrochemistry. 2. To know the types and theories of catalysis. 3. To learn the adsorption isotherms. 4. To know the spectroscopic techniques such as IR, UV-visible, Raman and NMR.

16SCCCH4P	GRAVIMETRIC & ORGANIC ANALYSIS (P)	<ol style="list-style-type: none"> 1. To learn the techniques of gravimetric analysis. 2. To learn the methods of different organic compounds preparation and analysis.
16SMBECH2	NUCLEAR, INDUSTRIAL CHEMISTRY & METALLIC STATE	<ol style="list-style-type: none"> 1. To know the fundamentals of nuclear chemistry. 2. To understand the applications of nuclear chemistry. 3. To study the metallic bond, theories and applications. 4. To understand the applications of inorganic polymers.
16SMBECH3:1	POLYMER CHEMISTRY	<ol style="list-style-type: none"> 1. To know the chemistry of polymers. 2. To study the importance of polymers. 3. To study the concepts of polymerization and techniques.
16SMBECH3:2	PHARMACEUTICAL CHEMISTRY	<ol style="list-style-type: none"> 1. To study the principles and functioning of drugs. 2. To know the importance and functioning of antibiotics. 3. To study the impact of poisons.

M.Sc. Chemistry

Subject Code	Title of paper	Course Outcome
P16CH11	ORGANIC CHEMISTRY I	<ol style="list-style-type: none"> 1. To understand the basic concepts of aromaticity. 2. To learn the oxidation and reducing reagents for organic synthesis. 3. To learn stereochemistry of organic compounds. 4. To know the effect of light in organic reactions. 5. To study the concerted pericyclic reactions.
P16CH12	INORGANIC CHEMISTRY I	<ol style="list-style-type: none"> 1. To understand the basic concepts of main group elements. 2. To learn the theories and mechanism of reactions of metal complexes. 3. To study the concepts of photochemistry and its applications.
P16CH13	PHYSICAL CHEMISTRY I	<ol style="list-style-type: none"> 1. To understand the concepts of group theory and quantum chemistry. 2. To learn the chemical kinetics and statistical thermodynamics. 3. To study the theories of kinetics, photochemistry and radiation chemistry.
P16CH14P	ORGANIC CHEMISTRY I (P)	<ol style="list-style-type: none"> 1. To perform the qualitative analysis of a given organic mixture. 2. To carry out the preparation of organic compounds.

P16CH15P	INORGANIC CHEMISTRY I (P)	<ol style="list-style-type: none"> 1. To perform the semi-micro qualitative analysis. 2. To estimate the metal ions using colorimeter.
P16CH21	INORGANIC CHEMISTRY II	<ol style="list-style-type: none"> 1. To understand the role of metal ions in biological process. 2. To learn the basic concepts of chemotherapy. 3. To learn the principle of catalysis and reaction mechanisms of organometallics.
P16CH22	PHYSICAL METHODS IN CHEMISTRY I	<ol style="list-style-type: none"> 1. To understand the principles of molecular spectroscopy. 2. To study UV, NMR and IR spectroscopy of organic compounds. 3. To learn the ESR, ORD and Mass spectroscopy of organic compounds. 4. To know the effect of X-ray, electron, neutron diffractions of compounds.
P16CH23P	ORGANIC CHEMISTRY II (P)	<ol style="list-style-type: none"> 1. To carry out the qualitative analysis of an organic mixture. 2. To perform the preparation of organic compounds.
P16CH24P	INORGANIC CHEMISTRY II (P)	<ol style="list-style-type: none"> 1. To carry out the titrimetric and gravimetric analyses. 2. To perform the preparation of compounds.
P16CHE1A	SOLID STATE CHEMISTRY	<ol style="list-style-type: none"> 1. To learn the crystal structures of few inorganic solids. 2. To study the chemistry of crystallization and vapour phase transport. 3. To learn the applications of magnetic materials. 4. To study the chemistry of organic solids.
P16CHE1B	SUPRAMOLECULAR CHEMISTRY	<ol style="list-style-type: none"> 1. To know the fundamentals of supramolecules. 2. To learn co-receptor molecules and multiple recognition 3. To study the supramolecular reactivity and catalysis.
P16CH31	ORGANIC CHEMISTRY II	<ol style="list-style-type: none"> 1. To understand the nucleophilic and electrophilic substitution reactions. 2. To learn the addition and elimination reactions. 3. To study a variety of heterocycles. 4. To know the chemistry of terpenoids, steroids and alkaloids.
P16CH32	PHYSICAL CHEMISTRY II	<ol style="list-style-type: none"> 1. To study the applications of quantum chemistry and group theory. 2. To understand electrochemistry, adsorption and classical thermodynamics.
P16CH33P	PHYSICAL CHEMISTRY I (P)	To perform the various techniques of physical chemistry experiments.

P16CHE2A	PHARMACEUTICAL CHEMISTRY	<ol style="list-style-type: none"> 1. To understand the basics of pharmaceutical chemistry. 2. To study the antibiotics and their activity. 3. To learn the analgesic and antipyretic activities. 4. To know the activities of anaesthetics and local anaesthetics. 5. To understand concept of clinical chemistry.
P16CHE2B	BIO-ORGANIC CHEMISTRY	<ol style="list-style-type: none"> 1. To learn the preparation, properties of amino acids and proteins. 2. To study the activity of enzymes and cofactors. 3. To know basics of lipids and nucleic acids. 4. To learn the concept of bioenergetics. 5. To learn the principles of lead and analogue synthesis.
P16CHE3	ANALYTICAL CHEMISTRY	<ol style="list-style-type: none"> 1. To learn the instrumental methods 2. To learn the nature of errors and their types. 3. To understand the various techniques in chromatography. 4. To understand the principles and instrumentation of thermoanalytical and fluorescence techniques. 5. To studying detail the electroanalytical techniques.
P16CH41	PHYSICAL METHODS IN CHEMISTRY II	<ol style="list-style-type: none"> 1. To understand electronic spectroscopy of metal complexes. 2. To study in detail IR, Raman and NMR of inorganic compounds. 3. To learn the EPR, Mossbauer and magnetic properties of metal complexes.
P16CH42P	PHYSICAL CHEMISTRY II (P)	To perform the various electrical experiments.
P16CHE4A	GREEN CHEMISTRY	<ol style="list-style-type: none"> 1. To learn the green chemistry and their principles. 2. To learn the importance of greener reactions. 3. To understand the phase-transfer catalyst in green chemistry.
P16CHE4B	INDUSTRIAL CHEMISTRY	<ol style="list-style-type: none"> 1. To know the basic ideas of an industry and industrial wastes. 2. To understand the petroleum and petrochemicals. 3. To understand the functions of portland cement. 4. To study the principles of pulp and paper. 5. To know the preparation of soaps, detergents and perfumes.

P16CHE5A	SELECTED TOPICS IN CHEMISTRY	<ol style="list-style-type: none"> 1. To understand the quantum chemical approach to chemical bonding. 2. To know the named reactions and their applications. 3. To understand the retro-synthetic methods. 4. To study the polymers and their types. 5. To learn the principles of nuclear chemistry.
P16CHE5B	CHEMISTRY OF NANOSCIENCE AND NANOTECHNOLOGY	<ol style="list-style-type: none"> 1. To know the synthetic methods of nanomaterials. 2. To understand the characterization of nanomaterials. 3. To understand carbon clusters and nanostructures. 4. To learn nanotechnology and nanodevices.

PG & RESEARCH DEPARTMENT OF COMMERCE

Programmes offered:

- B.Com (Aided)
- B.Com. (Unaided)
- M.Com. (Aided)
- M.Phil. (Unaided)
- 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.	Title of the Course	Intended Outcome of the Course
01	Principles of Accountancy	Imparting basics of accountancy
02	Marketing	Introducing concepts defining marketing
03	Business Management	Exposing the various facets of business
04	Value Education	Imparting principles advocating ethical aspects
05	Business Accounting	Offering thrust on business related accounting
06	Banking Theory Law&Practice	Enlightening banking systems
07	Business Economics	Familiarizing economic concepts underlying business world
08	Environmental Studies	Sensitizing environmental issues of mass concern
09	Partnership Accounts	Exposing the accounting processes in partnerships

10	Business Law	Enabling to get foundational aspects in legal matters governing businesses
11	Business Communication	Empowering students on the art of business correspondences
12	Personal Investment/Elements of Insurance	Depict the various investment avenues/ Sensitizing the need and role of insurance business
13	Cost Accounting	Enabling to get perspectives on cost procedures in industries
14	Business Tools for Decision making	Presenting the statistical tools for decision making
15	Company Law	Establishing the various rules governing companies
16	Introduction to Accountancy/Salesmanship	Offering insights on basic accounting processes/ Introducing the elements characterizing the art of selling
17	Corporate Accounting	Imparting knowledge on advanced accounting methods followed in companies.
18	Auditing	Enlightening the students on processes ensuring probity in record keeping
19	Computer Applications in Business	Making conversant about integrating computers with accounts
20	Management Accounting	Offering knowledge on accounting aimed at Management people
21	Entrepreneurial Development/International Marketing	Providing a platform to hone their business acumen / Sharing of information on global impacting marketing programmes
22	Soft Skills Development	Aimed at improving inter personal skills of Students
23	Financial Management	Offering vital financial jargons and techniques of financial control and management
24	Income Tax Theory Law & Practice	Imparting contemporary knowledge on income tax management processes

25	Financial Services	Making students well grounded on various financial products
26	Human Resources Management/Services Marketing	Introducing core knowledge on people management/ Familiarizing the ways of popularizing and monetizing services
27	Insurance Management/Investment Management	Enabling to have elementary knowledge on insurance/ investment avenues for prospective investors
28	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 titles of courses with core informational coupled with adequate practical exposure.

Course Outcomes (CO's)

S.No.	Title of the Course	Intended Outcome of the Course
01	Managerial Economics	Imparting knowledge on economic principles underlying managerial decisions
02	Services Marketing	Offering advanced inputs on marketing of services
03	Corporate Laws	Providing a substantial overview on various legislations meant for corporate
04	Income Tax Theory, Law & Practice	Offering insights on various tax filing procedures
05	Insurance Management/Retail Management	Enlightening students on various insurance products/ techniques on retail selling
06	Advanced Financial Management	Equipping students with advanced financial terms and jargons of popular use

07	Quantitative techniques for Business Decisions	Imparting students on various quantitative techniques for effective decision making
08	Human Resources Management	Offering techniques of people management principles with practical outlook
09	Fundamentals of Information Technology	Offering knowledge on various elementary aspects of data management tools impacting business world
10	Organizational Behavior/Advanced Managerial Communication	Exposing the students to various organizational working models through the prism of human behavior/ Cultivating the art of top notch organizational correspondence building
11	Total Quality Management	Offering an overview about quality parameters encircling service/product delivery
12	Advanced Corporate Accounting	Making students being exposed to the environ of Corporate accounting methods
13	Research Methodology	Exposing the students to various research oriented procedures in investigations of various genres.
14	Strategic Management	Making students aware of strategic thinking processes involved in business decision making
15	Export Marketing/Brand Management	Familiarizing the students of export techniques with the focus on marketing/ Training the students on the art of brand building
16	Investment Management	Educating the students on various avenues of investment of resources
17	Advanced Cost & Management Accounting	Offering students of various cost and management accounting techniques through training and practical solutions
18	E-Commerce/Customer Relationship Management	Introducing the virtual business platforms / Building businesses through effective strategies
19	Project Management/Management Information System	Depicting the methods in project preparation/ Giving inputs on various systemized informational management
20	Project Work	Preparing the students to undertake an investigation of social issues in a methodical manner.

PG & RESERCH DEPARTMENT OF COMPUTER SCIENCE

Programmes offered

- B.Sc. Computer Science (Aided)
- B.Sc. Computer Science (Unaided)
- B.C.A. (Unaided)
- M.Sc. Computer Science (Unaided)
- M.C.A. (Unaided)
- P.G.D.C.A. (Unaided)
- M.Phil. (Unaided)
- Ph.D.

Programme Outcome (B.Sc. Computer Science)

Students will be able to communicate in written and oral forms in such a way as to demonstrate their ability to present information clearly, logically, and critically.

Students will be able to apply mathematical and computing theoretical concepts in solution of common computing applications, such as computing the order of an algorithm.

Students will be able to complete successfully be able to program small-to-mid-size programs on their own. Sufficient programming skills will require use of good practice, e.g., good variable names, good use of computational units, appropriate commenting strategies.

Students will be able to use appropriately system design notations and apply system design engineering process in order to design, plan, and implement software systems

In a self-selected area of depth in Computing, students will demonstrate a depth of knowledge appropriate to graduate study and/or lifelong learning in that area. Students should be able to read for understanding materials in that area beyond those assigned in coursework.

Students will be prepared for a career in an information technology oriented business or industry, or for graduate study in computer science or other scientific or technical fields.

Sl.No.	Name of the Course	Course Code	Course Outcome
1.	Programming in C	16SCCCS1	To impart basic knowledge of Programming Skills in C language.
2.	C Programming Lab	16SCCCS1P	To Impart Practical Training in C Programming Language
3.	Programming in C++	16SCCCS2	To impart basic knowledge of Programming Skills in C++ language.

4.	Programming in C++ Lab	16SCCCS2P	To Impart Practical Training in C++ Programming Language
5.	Java Programming	16SCCCS3	To understand the basic concepts of Object Oriented Programming with Java language.
6.	Java Programming Lab	16SCCCS3P	To Impart Practical Training in Java Programming Language.
7.	Database System	16SCCCS4	To provide the basic concepts of the Database Systems including Data Models, Storage Structure, Normalization and SQL.
8.	Database System Lab	16SCCCS4P	To Impart Practical Training in MySQL.
9.	Data Structures and Algorithms	16SCCCS5	To understand the concepts of Data Structures and Algorithms.
10.	Computer Networks	16SCCCS6	To understand the Design and Organization of Computer Networks
11.	Digital Electronics and Microprocessor	16SCCCS7	To provide an overview about Digital Electronics and Microprocessors.
12.	Digital Electronics and Microprocessor Lab	16SCCCS5P	To Impart Practical Training related to Digital Electronics and Microprocessors
13.	Software Engineering	16SMBECS1:1	To provide knowledge of the various phases of Software Engineering Process
14.	CorelDraw	16RSBE 4:2	To acquire practical proficiency for work with 2D graphics and to use all program features for implementation of own ideas and projects and for poster presentation of various semester projects.
15.	Dreamweaver	16RSBE 4:3	To develop and design websites and to Demonstrate knowledge of basic project management concepts.

16.	Operating System	16SCCCS8	To provide the Fundamental Concepts in an Operating System.
17.	Programming in PHP	16SCCCS9	To understand the Concepts of PHP and Ajax and to understand how server-side programming works on the web.
18.	Programming in PHP Lab	16SCCCS6P	To Impart Practical Training in PHP Programming Language
19.	Computer Graphics	16SMBECS2:1	To understand the concepts on basic Graphical Techniques, Raster Graphics, Two Dimensional and Three Dimensional Graphics
20.	Dot Net Lab	16SMBECS1P	To Impart Practical Training in Dot Net Programming Language

Programme Outcome (Bachelor of Computer Applications)

Graduates will have a) The necessary technical, scientific as well as basic managerial and financial procedures to analyze and solve real world problems within their work domain b) Clarity on both conceptual and application oriented skills in commerce, Finance & Accounting and IT Applications in Business context. c) Improved communication and business management skills, especially in providing technical support. d) Awareness on ethics, values, sustainability and creativity aspects. e) the ability and the mindset to continuously update and innovate.

Sl.No.	Name of the Course	Course Code	Course Outcome
1.	Programming in C	16SCCCA1	To impart basic knowledge of Programming Skills in C language.
2.	C Programming Lab	16SCCCA1P	To Impart Practical Training in C Programming Language.
3.	Programming in C++	16SCCCA2	To impart basic knowledge of Programming Skills in C++ language.
4.	Programming in C++ Lab	16SCCCA2P	To Impart Practical Training in C++ Programming Language.
5.	Java Programming	16SCCCA3	To understand the basic concepts of Object Oriented Programming with Java language.

6.	Java Programming Lab	16SCCCA3P	To Impart Practical Training in Java Programming Language.
7.	Database System	16SCCCA4	To provide the basic concepts of the Database Systems including Data Models, Storage Structure, Normalization and SQL.
8.	Database System Lab	16SCCCA4P	To Impart Practical Training in MySQL.
9.	Pagemaker 7.0	16RSBE4:1	To Create Documents and Templates, add text into documents using various methods, and apply different formatting styles to characters and paragraphs and to Import graphics, create objects using various tools, add effects to objects.
10.	Data Structures and Algorithms	16SCCCA5	To understand the concepts of Data Structures and Algorithms.
11.	Computer Graphics & Animation Lab	16SCCCA5P	To Impart Practical Training in Computer Graphics and Animation related problems.
12.	Operating Systems	16SCCCA6	To provide the Fundamental Concepts in an Operating System.
13.	Digital Computer Fundamentals	16SCCCA7	To understand the concepts in Digital Computer System.
14.	Computer Graphics	16SMBECA1:1	To understand the concepts on basic Graphical Techniques, Raster Graphics, Two Dimensional and Three Dimensional Graphics.
15.	Corel Draw	16RSBE 4:2	To acquire practical proficiency for work with 2D graphics and to use all program features for implementation of own ideas and projects and for poster presentation of various semester projects.

16.	Dreamweaver	16RSBE 4:3	To develop and design websites and to Demonstrate knowledge of basic project management concepts.
17.	Computer Networks	16SCCCA8	To understand the Design and Organization of Computer Networks.
18.	Programming in PHP	16SCCCA9	To understand the Concepts of PHP and Ajax and to understand how server-side programming works on the web.
19.	Programming in PHP Lab	16SCCCA6P	To Impart Practical Training in PHP Programming Language.
20.	Business Process Outsourcing	16SMBECA2:2	To provide the Knowledge about the working environment of Business Process Outsourcing Industry.
21.	Dot Net Lab	16SMBECA2P	To Impart Practical Training in Dot Net Programming Language.

Programme Outcome (M.Sc. Computer Science)

This programme Provides technology-oriented students with the knowledge and ability to develop creative solutions, Develop skills to learn new technology, Apply computer science theory and software development concepts to construct computing-based solutions, Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, Artificial Intelligence, Mobile applications.

Sl.No.	Name of the Course	Course Code	Course Outcome
1.	Mathematical Foundations for Computer Science	P16CS11	Helps to learn the basis of the mathematical concepts such as Tautologies, Hypotheses and Graph theory. And also to learn the applications of that mathematical concepts for developing the program.

2.	Web Technologies	P16CS12	Provide fundamental concept of Internet, JavaScript, XML, JSP, ASP with a view to developing professional software development skills.
3.	Design and Analysis of Algorithms	P16CS13	Learn the concepts of algorithms and analysis of algorithms using divide and conquer, greedy method, dynamic programming, backtracking, and branch and bound techniques.
4.	Distributed Operating Systems	P16CS14	Provide the concepts of distributed computing systems and cryptography.
5.	Web Technologies Lab	P16CS15P	Learn the practical knowledge on the fundamental concept of Internet, JavaScript, XML, JSP, ASP with a view to have skills to develop professional softwares.
6.	OOAD & UML	P16CS21	Give a detailed knowledge on Structured approach to system construction, Various object oriented methodologies, Object oriented analysis, Object oriented design and UML examples.
7.	Distributed Technologies	P16CS22	This course aims to build concepts regarding the fundamental principles of distributed systems. The design issues and distributed operating system concepts are covered.
8.	Distributed Technologies Lab	P16CS23P	To provide fundamental concept of Internet, JavaScript, XML, JSP, ASP with a view to developing professional software development skills.
9.	Mobile Communications	P16CSE1A	To learn about the wireless tools, technologies, networks and WAP architecture.
10.	Artificial Intelligence	P16CSE2B	To understand the AI & Expert Systems. To Learn the Heuristic techniques and reasoning

11.	Data Mining and Ware Housing	P16CS31	To Understand the data mining techniques. To learn the Concepts and designs of data warehousing.
12.	Compiler Design	P16CS32	To Understand the different phases of compiler and needs of the compiler.
13.	Advanced Computer Architecture	P16CSE3B	To study the advanced computer Architecture, theories of parallel computing, network properties and applications of cost effective computer systems to meet the above requirements.
14.	Network Security	P16CSE4A	To impart knowledge related to the various concepts, methods of Network Security using cryptography basics, program security, database security, and security in networks.
15.	Data Mining Lab	P16CS33P	To get hands on experience in developing applications using data mining tool.
16.	Cloud Computing	P16CS41	To provide an understanding on concepts & technologies associated with Cloud Computing.
17.	Wireless Sensor Networks	P16CS42	To understand the wireless sensor nodes, networks and tools.
18.	Open Source Lab (P)	P16CS43P	To provide fundamental concept of Internet, JavaScript, XML, JSP, ASP with a view to developing professional software development skills.
19.	Big Data Analytics	P16CSE5A	To impart knowledge in fundamentals, Big Data Analytics, Technologies and databases, Hadoop and Map Reduce fundamentals.
20.	Major Project	P16CSPW	The student can get the knowledge to prepare the document, to implement tools for the specific problem and learn the industrial need, programs for their placement.

Programme Outcome (Master of Computer Applications)

The Master of Computer Applications Programme will prepare its graduates to achieve:

- The understanding to apply knowledge of computing and technological advances appropriate to the programme.
- Skills to analyze a problem, and identify and define the logical modeling of solutions.
- An ability to design implements and evaluate a computer-based system, process, component, or programme to meet stakeholder needs.
- The knack to function effectively in teams to accomplish a common goal.
- A sense of professional, ethical, legal, security and social issues and responsibilities.
- Effectiveness in communicating with a wide range of audiences.
- An ability to analyze the local and global impact of business solutions on individuals, organizations, and society.
- An identification of the need to engage in continuing professional development.

Sl.No.	Name of the Course	Course Code	Course Outcome
1.	Distributed Technologies	P16MCA14	Known the architectures of Distributed systems, to understand and compare the technologies associated with J2EE and DOTNET.
2.	Accounting and Financial Management	P16MCA15	Present the whole range of book keeping & accountancy and to give comprehensive coverage to management accounts.
3.	Discrete Mathematics	P16MCA16	Impart knowledge on Sets, Relations & Functions, Mathematical logic, Groups & Subgroups, Lattices & Boolean Algebra and Combinatorics & Recurrence Relations.
4.	Enterprise Resource Planning	P16MCA17	In this course students shall learn various components of an application software that help computerize functioning of an enterprise such as sales, materials, production, financial , customer relationship AND supply chain modules.
5.	Mobile Communication	P16MCAE6	Understand the concepts of Mobile and wireless devices, Mobile IP and WAP.

6.	System Assembly and Maintenance	P16MCAPS1	Impart the knowledge on assembling and troubleshooting the system.
7.	Distributed Technologies Lab	P16MCA18P	Get hands on experience in developing applications for distributed environment.
8.	Accounting and Financial Management Lab	P16MCA19P	Get hands on experience in developing accounting and financial management applications using accounting software.
9.	Web Technologies	P16MCA20	Learn PHP, web services, SOAP,WDSL and
10.	Data Mining & Warehousing	P16MCA21	Understand the data mining techniques. To learn the Concepts and designs of data warehousing.
11.	Organizational Dynamics	P16MCA22	Impart knowledge about fundamentals of organization behavior, Motivation, Individual and Interpersonal Behavior, Change, Stress and Counseling.
12.	Probability & Statistics	P16MCA23	Learn various probability functions, distributions, multivariate analysis, Sampling and queuing theories.
13.	Web Technologies Lab	P16MCA24P	Get hands on experience in developing web based applications.
14.	Data Mining Lab	P16MCA25P	Get hands on experience in developing applications using data mining tool.
15.	Cloud Computing	P16MCAE8	Impart knowledge on Introduction to Cloud Computing, The Evolution of SaaS, The Anatomy of Cloud Infrastructure, Workflow Management Systems and Clouds.
16.	Managerial Skills	P16MCAMS	Enable the students to learn the art of getting things done in the modern business world by learning topics like lateral thinking, decision making, balancing work and life, corporate social responsibility, and work ethics.

17.	Computer Network	P16MCA26	Provide an overall knowledge in computer communication networks concepts and Its implementation details in the Internet.
18.	Smart Device Programming	P16MCA27	Provide concepts to enable the students for creating applications for smart devices using Android.
19.	Optimization Techniques	P16MCA28	Understand the basic concepts of operations research and to impart the knowledge on various operations research techniques and their applications.
20.	Big Data Analytics	P16MCAE10	Impart knowledge in Fundamentals, Big Data Analytics, Operationalizing Big Data, Big Data Warehouses and Map Reduce Fundamentals
21.	Compiler Design	P16MCAE13	Understand the various phases of a compiler and to develop skills in designing a compiler.
22.	Smart Device Programming Lab	P16MCA29P	Get hands on experience in developing applications for smart devices.
23.	Open Source Lab	P16MCA30P	Get hands on experience in developing Programs using LAMP.
24.	Major Project	P16MCAPW	The student can get the knowledge to prepare the document, to implement tools for the specific problem and learn the industrial need, programs for their placement.

Programme Outcome (Post Graduate Diploma in Computer Applications)

The Post Graduate Diploma in Computer Application Programme will prepare its graduates to achieve:

- The understanding to apply knowledge of computing and technological advances appropriate to the programme.
- Skills to analyse a problem, and identify and define the logical modeling of solutions.
- An ability to design, implement and evaluate a computer-based system, process, component, or programme to meet stakeholder needs.
- The knack to function effectively in teams to accomplish a common goal.
- A sense of professional, ethical, legal, security and social issues and responsibilities.
- Effectiveness in communicating with a wide range of audiences.
- An ability to analyse the local and global impact of business solutions on individuals, organisations, and society.
- An identification of the need to engage in continuing professional development.

Sl.No.	Name of the Course	Course Code	Course Outcome
1.	Programming with C++	P16DCA11	Impart Object Oriented Programming skills using C++
2.	Operating Systems	P16DCA12	Present the fundamental aspects of various managements in an operating
3.	Computer Organization & Architecture	P16DCA13	Understand the principles of digital computer logic circuits and their design. To understand the working of a central processing unit architecture of a computer
4.	C++ Programming Lab	P16DCA14P	Get hands on experience in developing Programs using C++.
5.	Shell Programming Lab	P16DCA15P	Get hands on experience in developing shell Programs.
6.	Programming in Java	P16DCA21	Impart sound knowledge in Object Oriented Programming skills in JAVA
7.	Data Base System	P16DCA22	Impart knowledge about relational database and distributed database.
8.	Computer Graphics	P16DCA23	Present concepts on basic graphical techniques, raster graphics, two dimensional and three dimensional graphics.
9.	Java Programming Lab	P16DCA24P	Get hands on experience in developing Programs using Java applications.
10.	Database System Lab	P16DCA25P	Get hands on experience in developing queries and designing forms using RDBMS software.

PG AND RESEARCH DEPARTMENT OF ECONOMICS

Programmes offered:

- B.A. Economics (Aided)
- M.A. Economics (Unaided)
- M.Phil. (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..

S. No	Name of the Course	Subject Code	Course Outcome
1.	Core Course – I (CC) Micro Economics-I	16ACCEC1	To understand the fundamental of microeconomics; get an introduction to supply and demand and the basic forces that determine equilibrium in a market economy. Get introduced to the framework for learning about consumerbehaviour and analyzing consumer decisions; to study about firms and their decisions about optimal production; to solve basic microeconomic problems, Use the fundamental techniques to think about a number of policy questions related to the operation of the real economy ; to understand introductory microeconomic theory in a local, regional, national and international scenario ; get an introduction to supply and demand and the basic forces that determine equilibrium in a market economy.
2	Core Course – II (CC) Tamil Nadu Economy	16ACCEC2	On successful completion of the course, the student will be able to o understand the process of growth in Tamil Nadu economy o comprehend the specific economic issues pertaining to the region

3	Core Course – III(CC) Micro Economics- II	16ACCEC3	Explain the role of scarcity, specialization, opportunity cost, and cost/benefit analysis in economic decision making.; Identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output; Summarize the law of diminishing marginal utility; describe the process of utility maximization; Calculate supply, and demand elasticities, and identify the determinants of price elasticity of demand and supply, and demonstrate the relationship between elasticity and total revenue; Describe the production function and the Law of Diminishing Marginal Productivity; calculate and graph short-run and long-run costs of production; Identify the four market structures by characteristics; calculate and graph the profit maximizing price and quantity in the output markets by use of marginal analysis; Determine the profit maximizing price and quantity of resources in factor markets under perfect and imperfect competition by use of marginal analysis; Describe governmental efforts to address market failure such as monopoly power, externalities, and public goods; Identify the benefits of free trade using the concept of comparative advantages.
4	Core Course – IV (CC) Indian Economic Development	16ACCEC4	On completion of the course students will be able to : Develop ideas of the basic characteristics of Indian economy, its potential on natural resources. Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
5	Environmental Studies	16UGCES	An Environmental Studies major will be able to recognize the physical, chemical, and biological components of the earth’s systems and show how they function. An Environmental Studies major will be able to apply lessons from various courses through field experiences.
6	Core Course – V (CC) Macro Economics -I	16ACCEC5	Upon successful completion of the course a student will be able to : Explain the concepts of Macroeconomics and its interrelations with Microeconomics. Apply the principle of Macroeconomics in explaining the behaviour of Macroeconomic variables at national as well as global level.

7	Core Course – VI (CC) Money and Banking	16ACCEC6	Students who satisfactorily complete Money & Banking will understand the role of money and banks in the broader economy. Specifically, students should garner an understanding of the unique role of banks in the financial system. Students will also learn the relevance of the Federal Reserve and related central banking topics, including the causes, policy responses, and lessons associated with the current financial market crisis.
8	Core Course – IX (CC) Public Finance	16ACCEC9	Analyze the functioning of modern public finance; Identify the types of public needs and the mechanisms of the financing ; Argue the theoretical basis of public expenditures and to analyse their types and economic effects ; Classify public revenues and integrate them into the fiscal and tax system ; Classify public revenues and expenditures through the budget and to analyze the instruments and objectives of budgetary policy.
9	Core Course – XI (CC) International Economics	16ACCEC11	Upon successful completion, students will have the knowledge and skills to : be familiar with the main economic theories and models of international trade ; be aware of the likely distributional consequences of trade and thus of conflicting interests within an economy regarding trade liberalization ; understand economists’ arguments concerning trade policy and its analysis ; be able to apply economic reasoning to issues of the day surrounding globalization ; have an elementary understanding of open economy macroeconomics and the determinants of exchange rates and the balance of payments.
10	Core Course – XII (CC) History of Economic Thought	16ACCEC12	comprehend the development of the theory of economics in historical perspective ; comprehend emerging paradigms and aberrations with its reasons ; debate similarities and differences among different economy schools.
11	Core Course – XIII (CC) Agricultural Economics	16ACCEC13	On completion of the course students would be able to: Sensitize the overall development and engine of growth in agriculture. Draw distinctive features of rural and urban economy or agricultural and non-agricultural which can influence the whole economy. Learn and identify the opportunities open/available in those flourishing sectors such as horticulture,

			<p>fishing and floriculture and forestry. Find new investment opportunities to add income and employment. Understand limited resources available in the economy. Realize the need to exploit and utilize through development and improvement of production techniques. Make them aware of the availability of rich natural endowments to achieve sustainable agricultural development. With this knowledge they can challenge the problems of unemployment, inequality, shortage of food productions, poverty, and be useful to compete advanced agricultural economies. Gain knowledge of the causes of regional variations in productivity and production, social and economic inequality, size of land holdings and lack of quality inputs etc. and suggest appropriate measures for the whole economy</p>
12	<p>Core Course – XIV (CC) Human Resource Management</p>	16ACCEC14	<p>Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes; Administer and contribute to the design and evaluation of the performance management program. Develop, implement, and evaluate employee orientation, training, and development programs. Facilitate and support effective employee and labour relations in both non-union and union environments; Research and support the development and communication of the organization’s total compensation plan. Collaborate with others, in the development, implementation, and evaluation of organizational and health and safety policies and practices. Research and analyze information needs and apply current and emerging information technologies to support the human resources function. Develop, implement, and evaluate organizational development strategies aimed at promoting organizational effectiveness. Present and evaluate communication messages and processes related to the human resources function of the organization. Manage own</p>

			professional development and provide leadership to others in the achievement of ongoing competence in human resources professional practice. Facilitate and communicate the human resources component of the organization's business plan. Conduct research, produce reports, and recommend changes in human resources practices.
13	Core Course – XV (CC) Environmental Economics	16ACCEC15	On completion of the course students would be able to: Realize the importance and influence of environment on the economy including the quality of manpower. Arouse their feelings to make cleaner environment so as to achieve harmonious development. Understand that environmental problem is not the problem of a single country or region but a global problem/issue. Hence, policy formulation may be for all countries. Demonstrate the scientific management of waste materials; realize the role and importance of individuals to keep the environment clean. Understand the causes and victims of environmental pollution like poverty, population explosion, and over-use of resources, careless or unscientific dump/management of wastes. Suggest appropriate measures to correct environmental degradation, aware of those ingredients such as healthy climate, quality of human beings, domestic and other natural habitats and biodiversity levels, productivity and productions, sustainability, etc. are all influenced by environment.

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.

S. No	Name of the Course	Subject Code	Course Outcome
1.	Micro Economics – I	P16EC11	understand the fundamental of microeconomics; Get an introduction to supply and demand and the basic forces that determine equilibrium in a market economy. Get introduced to the framework for learning about consumer behaviour and analyzing consumer decisions; to study about firms and their decisions about optimal production; to solve basic microeconomic problems, Use the fundamental techniques to think about a number of policy questions related to the operation of the real economy ; to understand introductory microeconomic theory in a local, regional, national and international scenario ; get an introduction to supply and demand and the basic forces that determine equilibrium in a market economy.
2	Macro Economics I 6	P16EC12	Upon successful completion of the course a student will be able to : Explain the concepts of Macroeconomics and its interrelations with Microeconomics. Apply the principle of Macroeconomics in explaining the behaviour of Macroeconomic variables at national as well as global level.
3	Monetary Economics	P16EC13	Explain and discuss why people hold money and why it is used in the trading process. Solve macroeconomic models and assess the role and efficacy of monetary policy for various types of models in both the Classical and Keynesian setups.
4	Mathematical methods for Economic Analysis	P16EC14	A good understanding of the following concepts : unconstrained and constrained optimization, convexity, comparative statics analysis, differential and difference equations, methods of phase diagrams, dynamic optimization in discrete and continuous time.
5	Environmental Economics	P16ECE1	On successful completion of this course students will : Have a detailed understanding of the discipline of environmental economics, including its key principles and methods ; be able to use economic techniques to analyse environmental problems and to assess environmental policies ; have developed research skills in the field of environmental economics.
6	Financial Economics	P16EC21	Upon successful completion, students will have the knowledge and skill to : be exposed to the classical finance model that underpins modern finance. understand how securities are priced and affected by the institutional arrangements in securities markets, including taxes and other government regulations,

			<p>understand the role played by time, uncertainty, information and inflation in evaluating financial instruments; know the role played by arbitrage in finance markets and its impact on security prices; understand how security prices are determined in the Capital Asset Pricing Model, and the role played by the assumptions in the model;</p> <p>know the assumptions behind the the Modigliani and Miller (M-M) financial policy irrelevance theorems as basis for understanding the factors that determine the debt-equity and dividend policy choices of firms. understand to the role of asymmetric information in various financial markets. understand how contractual incompleteness can impact corporate financial decisions.</p>
7	Micro Economics II	P16EC22	<p>Explain the role of scarcity, specialization, opportunity cost, and cost/benefit analysis in economic decision making.; Identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output; Summarize the law of diminishing marginal utility; describe the process of utility maximization; Calculate supply, and demand elasticities, and identify the determinants of price elasticity of demand and supply, and demonstrate the relationship between elasticity and total revenue; Describe the production function and the Law of Diminishing Marginal Productivity; calculate and graph short-run and long-run costs of production; Identify the four market structures by characteristics; calculate and graph the profit maximizing price and quantity in the output markets by use of marginal analysis; Determine the profit maximizing price and quantity of resources in factor markets under perfect and imperfect competition by use of marginal analysis; Describe governmental efforts to address market failure such as monopoly power, externalities, and public goods; Identify the benefits of free trade using the concept of comparative advantages.</p>
8	Macro Economics II	P16EC23	<p>The student should be able to demonstrate understanding how relationships with other countries affect a national economy performing and to evaluate effects of economic policies. They should be able to analyze determinants of the exchange rate and interest rates, changing in output and prices, factors of the economic growth, and models of consumer behaviour and investments. Students will obtain better understanding regarding relationship between the</p>

			dynamics of macroeconomic indicator in different countries, effects of economic policy on macroeconomic sustainability, and changing in economic actors behavior.
9	Statistics	P16EC24	Students will formulate complete, concise, and correct mathematical proofs. Students will frame problems using multiple mathematical and statistical representations of relevant structures and relationships and solve using standard techniques. Students will create quantitative models to solve real world problems in appropriate contexts. Students will effectively use professional level technology tools to support the study of mathematics and statistics. Students will clearly communicate quantitative ideas both orally and in writing to a range of audiences.
10	Research Methodology	P16ECE2	The aim of the course is to provide participants with an introduction to research methods and report writing. Upon successful completion of the course you are expected to develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling. To have basic knowledge on qualitative research techniques ;have adequate knowledge on measurement & scaling techniques as well as the quantitative data analysis. To have basic awareness of data analysis – and hypothesis testing procedure.
11	Indian Economy	P16EC31	On completion of the course students will be able to develop ideas of the basic characteristics of Indian economy, its potential on natural resources. Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
12	International Business	P16EC32	Explain business expansion abroad and key issues related to their operations in other countries. Compare and contrast cultures and societies globally using socioeconomic and cultural frameworks. Develop an entry strategy into other markets recognizing the nature of institutions and forces governing the process of globalization.
13	Industrial Economics	P16EC33	The development of economic intuition ; the ability to distil the important (economic) characteristics from a case description; the ability to translate a case description into a logical, meaningful quantitative problem that can be solved numerically, and which solution provides specific decision support addressing the problem(s) sketched in the case description. the ability to use economic concepts and quantitative methods to support economic decision making and

			giving sound strategic advice to firms operating in the real world.
14	Fiscal Economics	P16EC34	To understand the economics of government expenditure and taxation. To use economic analysis to predict and verify the effects of government intervention on behaviour of individuals, households, and firms. To discuss the implications of policy for efficiency and equity. To analyze public goods, externalities, and information asymmetries; market failures resulting From these conditions and policies to address those market failures; taxes; and expenditures. To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes. To critically analyze fiscal policies and its implication in Indian Economy
15	Project Appraisal	P16EC35	To make them understand the concepts of Project Management for planning to execution of projects. To make them understand the feasibility analysis in Project Management and network analysis tools for cost and time estimation. To enable them to comprehend the fundamentals of Contract Administration, Costing and Budgeting. Make them capable to analyze, apply and appreciate contemporary project management tools and methodologies in Indian context.
16	Economics of Growth and Development	P16EC41	Acquire a basic understanding of the issues and on-going debates on development economics ;discuss the important models and theories in economic development and their policy implications. Apply an analytical framework to understand the important structural characteristics of development ;understand and evaluate the unevenness in development ; Acquire skills in conducting research related to development issues.
17	Economics of Natural Resources	P16EC42	Students will be able to apply knowledge to solve problems related to crop production and plant growth. Students will having a greater knowledge of how natural resources relate to the economy and environment, both currently and in the future.
18	Management Information Systems	P16ECE4	Understand the leadership role of Management Information systems in achieving business competitive advantage through informed decision making. Analyze and synthesize business information and systems to facilitate evaluation of strategic alternatives.
19	Computer Applications in Economics	P16ECE5	To become familiar with basic knowledge on computer ;to become familiar with a statistical software ; to draw distributive tables, graphs, trend

			lines ; to estimate the parameters of multiple regressions with the help of software and interpret it ; to use unit level data of large samples, viz., NSSO various rounds ; to estimate weights, distributive tables, regression and any other relevant techniques by using variables of NSSO data.
20.	Project Work	P16ECPW	Understanding at an advanced level about the complex economics mechanism that characterise modern society. In depth knowledge about economic theory regarding the utilisation and allocation of resources, including labour, natural resources and capital. In which way the economy is influenced by economic policy, technological advances and demographic conditions. Analyse how markets for goods and services function and how income is generated and distributed. Such analyses may have a national and international perspective, and a time frame that may be either short-term (business-cycles and crises) or long term (economic growth). To formulate mathematical economic models, as well as how to quantify model parameters from data from India or other countries. Use of econometric-and mathematical methods

PG AND RESEARCH DEPARTMENT OF ENGLISH

Programmed offered:

- B.A. English (Unaided)
- M.A. English (Unaided)
- M.Phil. 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.	16ACCEN1	PROSE	To introduce learners to the evolution of English prose from the Elizabethans to the 20th century To expose learners to various styles of prose writers To train learners to imitate and improve their style of writing
02.	16ACCEN2	SHORT STORIES	To introduce learners to the evolution of English prose from the Elizabethans to the 20th century To expose learners to various styles of prose writers To train learners to imitate and improve their style of writing

03.	16AACEN2	SOCIAL HISTORY OF ENGLAND	<p>To help learners understand the social and literary 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.	16AACEN1	SOCIAL HISTORY OF ENGLAND	<p>To help learners understand the social and literary 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>
05.	16ACCEN3	POETRY	<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>
06.	16ACCEN4	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 writer</p>
07.	16ACCEN2	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>
08.	16ACCEN5	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>

09.	16ACCEN6	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>
10.	16ACCEN3	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>
11.	16ACCEN7	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 humours, anti- sentimental comedy, drama of ideas and absurd play</p>
12.	16ACCEN8	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>
13.	16ACCEN4	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>
14.	16ACCEN9	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>

15.	16ACCEN10	PRINCIPLES OF LITERARY CRITICISM	<p>To acquaint learners with the knowledge of history of literary criticism, its various trends and schools</p> <p>To help learners apply literary theory to texts in order to enrich their understanding and appreciation of literature</p> <p>To make learners understand Wilbur Scott's five approaches to literature.</p>
16.	16ACCEN11	AMERICAN LITERATURE	<p>To introduce learners to important aspects in various genres of American literature</p> <p>To help learners get acquainted with the richness of American literature through representative works of poets, essayists and novelists.</p>
17.	16ACCEN12	INDIAN CULTURE AND LITERATURE	<p>To make learners understand the rich literary heritage of India</p> <p>To appreciate the underlying unity among the diverse languages and literatures of India</p> <p>To recognize the important contribution of India to world literature</p>
18.	16AMBEEN1	TRANSLATION THEORY AND PRACTICE	<p>To familiarize learners with the history and theory of translation</p> <p>To introduce learners to the techniques involved in translation</p> <p>To make learners translate prose passages from English to Tamil and vice versa</p>
19.	16ACCEN13	INDIAN WRITING IN ENGLISH	<p>To make learners aware of the history and the growth of Indian Writing in English</p> <p>To introduce learners to the rich literary tradition in Indian Writing in English</p> <p>To enable learners to appreciate the changing trends in Indian literature in English from pre to post-Independence era</p>

20.	16ACCEN14	COMMON WEALTH LITERATURE	To introduce learners to the literatures of a few commonwealth countries To enable learners to understand and appreciate various cultures, traditions and mores
21.	16ACCEN15	ENGLISH LANGUAGE TEACHING	To expose learners to various approaches and methods, aspects and strategies of teaching English To help learners understand the essential components and concepts of language teaching
22.	16AMBEEN2	JOURNALISM	To initiate learners into the history of journalism To expose learners to various aspects of journalism
23.	16AMBEEN3	ENGLISH FOR COMPETITIVE EXAMINATIONS	To instil confidence in learners and improve their language skills to face the challenges of a competitive examination To equip learners with adequate English language skills to achieve success in competitive examinations

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

Sl.No	Sub Code	Name of the course	Course outcome
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01.	P16EN11	LANGUAGE AND LINGUISTICS	<p>To provide learners an insight into the nature of language</p> <p>To familiarise learners with the discourse of linguistics and to expose them to theoretical and practical manifestations of linguistics</p> <p>To enable learners to understand the nexus between literature and society</p>
02.	P16EN12	MODERN LITERATURE I	<p>To introduce learners to the evolution of English poetry – Chaucer’s period</p> <p>To expose learners to the salient features of metaphysical poetry To introduce learners to the origin of English essays</p> <p>To make learners understand the features of tragedy, romantic tragedy, revenge play and comedy of humours of Shakespeare’s predecessors</p>
03.	P16EN13	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.	P16EN14	INDIAN WRITING IN ENGLISH	<p>To enable learners to appreciate the changing trends, from Romantic to realistic, in Indian literature in English from pre to post-Independence era</p> <p>To make learners aware of Indian sensibility in the representative works</p>

05.	P16ENE1	GRAMMAR, RHETORIC AND WRITING	<p>To enable learners to understand the basics of grammar To provide learners with the basics of rhetoric</p> <p>To help learners write effective paragraphs and essays To expose learners to various forms of discourse</p>
06.	P16EN21	MODERN LITERATURE III	<p>To familiarize learners with the characteristics of Romantic poetry</p> <p>To acquaint learners with the unique qualities of the essays of Lamb and Hazlitt</p> <p>To make learners aware of the characteristics of Scott's and Jane Austen's novels</p>
07.	P16EN22	MODERN LITERATURE IV	<p>To enable learners to understand the spirit of Victorian England and its influence on poetry</p> <p>To help learners appreciate the revolution brought about through Aesthetic Movement and antiVictorian Movement in poetry, drama and novel during the Age of Hardy</p> <p>To expose learners to various aspects of the works of T.S. Eliot</p>
08.	P16EN23	SHAKESPEARE	<p>To expose learners to the development of linguistic, social, psychological and existential skills through a few representative plays of Shakespeare</p> <p>To make learners understand the characterization, dramatic and poetic techniques of Shakespeare</p>
09.	P16EN24	LITERARY CRITICISM	<p>To help learners develop literary sensibility and critical thinking</p> <p>To make learners understand a wide range of literary texts, literary history and literary criticism</p> <p>To introduce learners to a variety of critical approaches to perceive the paradigm shift through the critical texts from Plato to T.S. Eliot</p>

10.	P16ENE2	COMMUNICATIVE STUDIES AND MASS MEDIA	<p>To introduce learners to different types of communication</p> <p>To expose learners to the functions of mass media and mass culture and popular culture</p> <p>To make learners understand various aspects of mass media</p>
11.	P16EN31	AMERICAN LITERATURE	<p>To introduce learners to significant aspects in various genres of American literature</p> <p>To help learners get acquainted with the richness of American literature through representative works of poets, essayists, playwrights and novelists</p>
12.	P16EN32	THEORY OF COMPARITIVE LITERATURE AND CLASSICS IN TRANSLATION	<p>To expose learners to the scope, methodology and application of the theories in comparative literature</p> <p>To help learners understand the thematology and genre studies</p> <p>To make learners know a few representative classics in translation</p>
13.	P16EN33	LITERARY THEORY	<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>
14.	P16EN34	RESEARCH METHODOLOGY	<p>To expose learners to philosophy of research</p> <p>To enable learners to use different research sources and document them</p> <p>To make learners know the format of research and mechanics of writing</p>

15.	P16ENE3	ASIAN LITERATURE IN ENGLISH	<p>To expose learners to philosophy of research</p> <p>To enable learners to use different research sources and document them</p> <p>To make learners know the format of research and mechanics of writing</p>
16.	P16EN41	NEW LITERATURES IN ENGLISH	<p>To make learners familiarize with writers of new literatures</p> <p>To enable learners to appreciate various cultures</p>
17.	P16EN42	TRANSLATION : THEORY AND PRACTISE	<p>To familiarize learners with the history and theories of translation</p> <p>To introduce learners to the techniques involved in translation of literary and non-literary texts</p> <p>To enhance the employability of the learners as translators</p>
18.	P16ENE4	SINGLE-AUTHOR STUDY- RABINDRANATH TAGORE	<p>To initiate learners into the study of Tagore's works and his narrative techniques</p> <p>To expose learners to the aspects of Indian civilization and culture with reference to Tagore</p>
19.	P16ENE5	ENGLISH LITERATURE FOR UGC EXAMINATIONS	<p>To help learners have a wide range of knowledge in literature – poetry, prose, drama, short story and novel</p> <p>To help learners prepare for UGC Eligibility tests for JRF and Assistant Professorship</p>
20.	P16ENPW		

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.	Subject Code	Title of the Paper	COs
1.	16ACCHI1	History of India from Pre-History to 1206 A. D	<p>To understand the early history of India.</p> <p>To learn about the cultural heritage of India.</p> <p>To analyse the contributions of Jainism and Buddhism to the society.</p> <p>To evaluate the contributions of the Mauryas to the Indian society.</p> <p>To estimate the administration of Guptas</p> <p>To create an understanding about the early invasions of India.</p>
2.	16ACCHI2	History of Tamil Nadu upto 1565 A. D	<p>To study an Ancient Tamil culture.</p> <p>To motivate the students to understand the administrative system of Sangam Age.</p> <p>To understand about the impact of different culture of Ancient Tamil country.</p> <p>To analyse the impact of Muslim Rule in Tamil Nadu.</p>
3.	16ACCHI3	History of India from 1206 A. D to 1707 A.D	<p>To understand the Muslim history of India.</p> <p>To analyse the administrative reforms of the Delhi Sultanate.</p> <p>To evaluate the history of Vijayanagar Empire and disintegration of Bhamani Kingdom.</p> <p>To learn about the rise of Marathas and Sikhs</p>
4.	16ACCHI4	History of Tamil Nadu from 1565 A. D to 2000A.D	<p>To estimate the administration of the Polygars.</p> <p>To educate the students to the pros and cons of the British Administration in Tamil Nadu</p> <p>To provide the students to the knowledge of Socio-Religious Movements in Tamil Nadu.</p> <p>To analyse the role of freedom fighters in Gandhi's Mass Movements.</p> <p>To provide information regarding the formation of Reginal Political Parties in Tamil Nadu</p>
5.	16ACCHI5	History of India from 1707 A. D to 1857 A. D	<p>To learn about the European settlements in India.</p> <p>To analyse the growth and expansion of British Power in Bengal.</p> <p>To evaluate the Anglo-Mysore Wars and Anglo-Sikh Wars.</p> <p>To estimate the Doctrine of Lapse and the Ring Fence Policy</p> <p>To study about the Land Revenue Settlement of Lord Cornwallis.</p> <p>To understand the Educational Reforms of Lord Bentinck.</p>

6.	16ACCHI6	History of Europe from 1453 A. D to 1789 A. D	To estimate the significance of the Geographical Discoveries. To learn about the fall of Constantinople and its effects. To evaluate the causes for the Industrial evolution To analyse the rise of Russia To understand the historical significance of the French Revolution.
7.	16ACCHI7	History of India from 1857 A. D to 1947 A. D	To understand the Local Self Government of Lord Ripon. To evaluate the contributions of the Socio-Religious Reform Movements in India. To estimate the rise of Indian Nationalism and the Moderates. To study about the Home Rule Movement and Annie Besant. To understand the historical importance of the Indian Independence Act of 1947.
8.	16ACCHI8	History of Europe from 1789 A. D to 1945 A. D	To learn about the revolutions in Europe. To bring out the importance of the Unification of Italy and Germany. To estimate the causes and effects of the Great Depression. To evaluate the role of UNO in the World Peace.
9.	16ACCHI9	Contemporary India	To analyse the significance and effects of the State Reorganization. To estimate the Era of Nehru and Indira. To evaluate the Era of Rajiv and Technology Development in India. To help the students to understand the Green and White Revolution.
10.	16ACCHI10	History of USA upto 1865 A. D	To evaluate the formation of Colonies in America. To bring out the causes and results of the American War of Independence. To estimate the Era of Good Feelings in America. To learn about the Westward Expansion in America. To assess the Reconstruction in USA after the Civil War.
11.	16ACCHI11	East Asia from 1894 A. D to 1970 A. D	To help the students to understand the Chinese relations with other countries To provide knowledge about the later developments in China. To help the students to understand the Japanese relations with other countries. To provide knowledge about the developments of Japan.

12.	16ACCHI12	History of Russia upto 1991 A. D	<p>To learn about the rise and growth of Russia and Peter the Great.</p> <p>To study about the growth of Literature in Russia.</p> <p>To bring out the significance of the Russian Revolution.</p> <p>To estimate the importance of War Communism.</p> <p>To analyse the formation of USSR and disintegration of USSR.</p>
13.	16ACCHI13	History of USA from 1865 A. D to 2000 A. D	<p>To study the importance of the Reconstruction.</p> <p>To understand the causes for the economic depression.</p> <p>To know about the Cold War scenario.</p>
14.	16ACCHI14	Introduction to Historiography	<p>To analyse the need for studying history.</p> <p>To learn about the definition, nature and scope of History.</p> <p>To evaluate the contributions of Historians through ages</p> <p>To study about the Research Methodology of History.</p>
15.	16ACCHI15	History of England from 1603 A. D to 1914 A. D	<p>To analyse the rights earned by the British People from the Monarchs.</p> <p>To know about the Origin of Democracy in England</p> <p>To assess the functioning of Parliament in England.</p> <p>To estimate the rise of Political Parties and Cabinet Systems.</p>

P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS

Programmes offered:

- **B.Sc. Mathematics (Aided)**
- **B.Sc. Mathematics (Unaided)**
- **M.Sc. Mathematics (Unaided)**
- **M.Phil. 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	Name of the Course	Subject Code	Course outcome
01	Differential Calculus and Trigonometry	16SCCMM1	To inculcate the basics of differentiation and their applications. To introduce the notion of curvatures, Evolutes & Involutives and polar co-ordinates. To understand the basic concepts of Trigonometry

02	Integral Calculus	16SCCMM2	To inculcate the basics of integration and their applications. To study some applications of definite integrals. To understand the concepts of Beta, Gamma functions
03	Differential Equations and Lapalce Transforms	16SCCMM3	To know the order and degree of the ODE's To identify some specific methods and solve them To make difference between ODE and PDE To solve some standard methods To know the concept of Laplace transforms and its inverse with applications
04	Analytical Geometry 3D	16SCCMM4	To study 3 dimensional Cartesian Co-ordinates system To enable the students to develop their skill in 3 dimensions
05	Sequences and Series	16SCCMM5	To lay a good foundation for classical analysis To study the behavior of sequences and series.
06	Classical Algebra and Theory of Numbers	16SCCMM6	To lay a good foundation for the study of Theory of Equations. To train the students in operative algebra.
07	Vector Calculus and Fourier Series	16SCCMM7	To provide the basic knowledge of vector differentiation & vector integration. To solve vector differentiation & integration problems.
08	Linear Algebra	16SCCMM8	To facilitate a better understanding of vector space To solve problems in linear algebra
09	Numerical Methods with 'C' Programming	16SCCMM9	To introduce the exciting world of programming to the students through numerical methods. To introduce the techniques of MATLAB programming. To solve numerical problems using MATLAB programming.

10	Real Analysis	16SCCMM10	<p>Understand the real number system and countable concepts in real number system</p> <p>Provide a Comprehensive idea about the real number system.</p> <p>Understand the concepts of Continuity, Differentiation and Riemann Integrals</p> <p>Learn Rolle's Theorem and apply the Rolle's theorem concepts.</p>
11	Statics	16SCCMM11	<p>To provide the basic knowledge of equilibrium of a particle.</p> <p>To develop a working knowledge to handle practical problems.</p>
12	Numerical Methods with 'C' Programming(P)	16SCCMM1P	<p>To introduce the exciting world of programming to the students through numerical methods.</p> <p>To introduce the techniques of MATLAB programming.</p> <p>To solve numerical problems using MATLAB programming.</p>
13	Operations Research	16SMBEMM1:1	<p>To introduce the various techniques of Operations Research.</p> <p>To make the students solve real life problems in Business and Management</p>
14	Abstract Algebra	16SCCMM12	<p>To introduce the concept of Algebra from the basic set theory and Functions, etc.</p> <p>To introduce the concept of Group theory and Rings.</p>
15	Complex Analysis	16SCCMM13	<p>Understand the functions of complex variables, continuity and differentiation of complex variable functions, $C - R$ equations of analytic functions.</p> <p>Learn about elementary transformation concepts in complex variable.</p> <p>Know about complex Integral functions with Cauchy's Theorem, power series expansions of Taylor's and Laurant's series.</p> <p>Understand the singularity concepts and residues, solving definite integrals using the residue concepts.</p>
16	Dynamics	16SCCMM14	<p>To provide a basic knowledge of the behavior of objects in motion.</p> <p>To develop a working knowledge to handle practical problems.</p>

17	Graph Theory	16SMBEMM2:1	To introduce the notion of graph theory and its applications. To learn the techniques of combinatorics in Graph Theory.
18	Number Theory	16SMBEMM3:2	To highlight the niceties and nuances in the world of numbers. To prepare the students for coding through congruences.

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.

S.No	Name of the course	Subject code	Course outcome
01	Algebra	P16MA11	To give foundation in Algebraic structures like Groups, Rings . To train the students in problem solving in Algebra
02	Real Analysis	P16MA12	To give the students a thorough knowledge of the various aspects of Real line and Metric Spaces which is imperative for any advanced learning in Pure Mathematics. To train the students in problem-solving as a preparatory for competitive exams.
03	Ordinary Differential Equations	P16MA13	To give an in-depth knowledge of differential equations and their applications. To study the existence, uniqueness, stability behavior of the solutions of the ODE

04	Graph Theory	P16MA14	To give a rigorous study of the basic concepts of Graph Theory. To study the applications of Graph Theory in other disciplines
05	Integral Equations, Calculus of Variations and Transforms	P16MA15	To introduce the concept of calculus of variations and integral equations and their applications. To study the different types of transforms and their properties
06	Complex Analysis	P16MA21	To learn the various intrinsic concepts and the theory of Complex Analysis. To study the concept of Analyticity, Complex Integration and Infinite Products in depth.
07	Linear Algebra	P16MA22	To give the students a thorough knowledge of the various aspects of Linear Algebra To train the students in problem-solving as a preparatory for competitive exam.
08	Partial Differential Equations	P16MA23	To give an in-depth knowledge of solving partial differential equations and apply them in scientific and engineering problems. To study the other aspects of PDE
09	Fuzzy sets and their Applications	P16MAE1	To introduce the concept of fuzzy theory and study its application in real problems To study the uncertainty environment through the fuzzy sets that incorporates imprecision and subjectivity into the model formulation and solution process.
10	Stochastic Processes	P16MAE2	To understand the stochastic models for many real life probabilistic situations. To learn the well known models like birth-death and queuing to reorient the knowledge of stochastic processes.
11	Classical Dynamics	P16MA31	To give a detailed knowledge of the mechanical system of particles. To study the applications of Lagrange's and Hamilton's equations .
12	Measure and Integration	P16MA32	To generalize the concept of integration using measures. To develop the concept of analysis in abstract situations.
13	Topology	P16MA33	To study the concepts concerned with properties that are preserved under continuous deformations of objects. To train the students to develop analytical thinking and the study of continuity and connectivity.

14	Discrete Mathematics	P16MAE3	To study the concepts like Boolean algebra, coding theory. To introduce the different notions grammar.
15	Advanced Operations Research	P16MAE4	To enlighten the students in the field of operations research. To help the students to apply OR techniques in business and management problems.
16	Functional Analysis	P16MA41	To study the three structure theorems of Functional Analysis viz., Hahn-Banach theorem, Open mapping theorem and Uniform boundedness principle. To introduce Hilbert spaces and operator theory leading to the spectral theory of operators on a Hilbert space.
17	Differential Geometry	P16MA42	To introduce the notion of surfaces and their properties. To study geodesics and differential geometry of surfaces.
18	Advanced Numerical Analysis	P16MA43	To know the theory behind various numerical methods. To apply these methods to solve mathematical problems.
19	Algebraic Number Theory	P16MAE5	To expose the students to the charm, niceties and nuances in the world of numbers. To highlight some of the Applications of the Theory of Numbers.

**காதிர் முகைதீன் கல்லூரி, அதிராம்பட்டினம்
இளங்கலைத் தமிழ் (பி.லிட்)**

தாளின் பெயர்	குறியீடு	கற்பித்தலின் நோக்கம்
நன்னூல் எழுத்ததிகாரம்	16LCCLT2	தமிழைப் பிழையின்றி எழுதும் திறன் பெறுவர். ஒற்றுப் பிழையின்றி எழுதும் திறன் மற்றும் தமிழ் மொழி இலக்கணத்தில் புலமை பெறுவர்.
ஊடகவியல்	16LACLT1	ஊடகங்களின் பரிணாம வளர்ச்சி & தேவையை உணர்த்துதல். ஊடகங்களைப் பயன்படுத்த பயிற்றுவித்தல் பணி வாய்ப்புப் பெற மாணவர்களை ஊக்குவிக்க.
சிற்றிலக்கியம்	16LCCLT3	சிற்றிலக்கிய வகைகளை அறிமுகம் செய்தல். அதில் அமைந்துள்ள சமயம் சார்ந்த கருத்துக்களைக் கற்பித்தல் - இலக்கிய கயங்களை அறியச் செய்தல்.
நன்னூல் சொல்லதிகாரம்	16LCCLT4	நால்வகைச் சொற்களின் இலக்கணத்தைக் கற்றுத் தருதல் சொற்றொடர்ப் பிழையின்றி எழுதப் பயிற்றுவித்தல். சொற்களின் ஆற்றல் மிகு பயன்பாட்டை அறியச் செய்தல்.
தமிழ் இலக்கிய வரலாறு	16LACLT2	தமிழ் இலக்கியங்களின் தோற்றம் வளர்ச்சியை அறிதல் - இலக்கியங்களின் வடிவ, உள்ளடக்க மாற்றங்களைத் தெளிவுறுத்தல்.
சமய இலக்கியம்	16LCCLT5	சமயம் சார்ந்த இலக்கியங்களை அறிமுகப் படுத்தல். இலக்கியங்களுக்கிடையேயான பொதுத் தன்மைகளைத் தெளிவு படுத்தல். சமுதாய மேம்பாட்டுச் சிந்தனைகளைமேம்படுத்தல்.
நம்பியகப்பொருள் புறம்பொருள் வெண்பாமாலை	16LCCLT6	அகப்பொருள், புறம்பொருள் இலக்கணம் கற்பித்தல். அகவாழ்க்கை நெறிகளைக் கற்பித்தல். அகமரபு பெற்ற மாற்றங்களைசத் தெளிவுபடுத்தல்.
தமிழக வரலாறும், மக்கள் பண்பாடும்	16LACLT3	தமிழ் மக்களின் சமூக வரலாறு, பண்பாடு போன்றவற்றைக் கற்பித்தல். வாழ்வியல் விழுமியச் சிந்தனைகளைத் தூண்டுதல்.
காப்பியம்	16LCCLT7	காப்பியங்களை அறிமுகப்படுத்துதல் அதன்வழி வாழ்வியல் அறங்கள், இலக்கியச் சுவையைக் கற்பித்தல்.
தொல்காப்பிய எழுத்ததிகாரம்	16LCCLT8	ஐந்திலக்கணங்களுள் முதலாவதான எழுத்திலக்கணத்தைப் பயிற்றுவித்தல். பிழையறப்பேசவும் எழுதவும் வழிவகுத்தல் எழுத்திலக்கத் தொடர் பிழைகளைத் தெளிவு படுத்தல்.

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படைப்பிலக்கியம்	16LACLT4	படைப்பிலக்கியத்தின் பல்வேறு கூறுகளைக் கற்பித்து, படைப்பிலக்கிய மொழியின் தனித்தன்மைகளை அறிவுறுத்தல், கவிதை, நாடகம், உரைநடை சிறுகதை ஆகியவற்றின் தனித்தன்மைகளைக் கற்றுத் தருதல்.
அற இலக்கியம்	16LCCLT9	தமிழ் அற இலக்கியங்களின் தனித்தன்மைகளை வலியுறுத்தல். அக்காலத்தின் சமூக, அரசியல் பொருளாதாரப் பின்னணியை உணர்த்துதல்.
யாப்பருங்கலக்காரிகை	16LCCLT10	தமிழ் யாப்பிலக்கணம் கற்பித்தல் பாவகை, பா இனங்களைக் கற்பித்தல்
தண்டியலங்காரம்	16LCCLT11	தமிழ் இலக்கிய அணிகளின் வகைகள், இலக்கணம், பரிணாம வளர்ச்சியைக் கற்பித்தல்.
தொல்காப்பியம் சொல்லதிகாரம் (இளம்பூரணம்)	16LCCLT12	தமிழ் மொழியின் சொல் இலக்கணம் சொற்றொடர்களைப் பிழையின்றி எழுதவும், சொல் பயன்பாட்டை அறியவும் கற்பித்தல்.
தமிழின் செம்மொழிப் பண்புகள்	16LMBELT1	செம்மொழியின் பண்புகள், பழமை, சிறப்பு, இலக்கிய விழுமியங்கள், செவ்வியல் இலக்கியங்களை அறியச் செய்தல்.
திருக்குறள்	16LCCLT13	திருக்குறள் சுட்டும் அறங்கள், அதில் உள்ள அழகியல் கூறுகள். ஊலக இலக்கியங்களுள் உயர்ந்து நிற்கும் திறன் இவற்றினை உணர்த்துதல்.
பண்டைய இலக்கியம்	16LCCLT14	பழந்தமிழ் இலக்கிய வளத்தை உணர்த்துதல், சங்க அகப்புறப் பாடல் மரபுகளையும், வாழ்வியல் அறங்களையும் உணர்த்துதல்.
தொல்-பொருளதிகாரம் இளம்பூரணம் (செய்யுளியல் நீங்கலாக)	16LCCLT15	பொருளிலக்கணம் தமிழ்க் கவிதைகளுக்கான கவிதையியல் மரபை உணர்த்துகிறது என்பதைத் தெளிவுபடுத்தல். இலக்கியக் கூறுகளான வடிவம் உள்ளடக்கம், உணர்ச்சி ஆகியவற்றை உணர்த்துதல்.
கல்வெட்டியல்	16LMBELT2	தமிழன் தொன்மையைச் சான்றுகளுடன் கற்பித்தல். கல்வெட்டின் வழிப் பழந்தமிழர் வரலாற்றைக் கற்பித்தல்.
நாடகவியல்	16LMBELT3	நாடக இலக்கியத்தின் அமைப்பு முறை, தோன்றி வளர்ந்த வரலாறு, அவ்விலக்கியம் தரும் சமூகப் பங்களிப்பை உணர்த்துதல்.

காதிர் முகைதீன் கல்லூரி, அதிராம்பட்டினம்
M.A., Tamil 2016 Onwards
பாடத்திட்டம் - Code

தாளின் பெயர்	குறியீடு	பாட நோக்கம்	மாணவர் பெறும் திறன்
இக்கால இலக்கியம் - I, கவிதையும், நாடகமும்	P16TA11	<ul style="list-style-type: none"> ➤ கவிதை புனையும் இலக்கண அமைப்புடன் கவிதையின் வகைமைப்பாட்டை அறிமுகப்படுத்துதல் ➤ இலக்கண அமைப்போடு புனையப்படும் மரபுக்கவிதையின் தன்மை மற்றும் புலவரின் நுண்புலங்களை பயிற்றுவித்தல். ➤ மரபு கவிதையின் வழி பழமையான காப்பியங்களின் கருத்தாக்கங்களை கற்பித்தல் ➤ இலக்கணத்தை கட்டவிழ்த்து எண்ணங்களை மொழிகளில் ஊடாடவைக்கும் புதுக்கவிதைகளின் தன்மைகளை உணர்த்துதல். ➤ நாடகத்தின் இலக்கணம் மற்றும் வகைமைப்பாடுகளை கற்பித்தல் 	<ul style="list-style-type: none"> ➤ கவிதைக்கான இலக்கண அமைப்பை அறிவதுடன் படைப்பாற்றல் திறனைப்பெறுவர். ➤ பழமையான காப்பியங்களின் கருத்தாக்கங்களை கட்டுடைத்துப் பார்க்கும் ஆசிரியரின் திறனை அறிவர். ➤ நாடகத்தின் அமைப்புமுறை, வகைப்பாடு, இக்கால நிலை போன்றவற்றை அறிவர்.
இக்கால இலக்கியம்- II, உரைநடை புனைகதை	P16TA12	<ul style="list-style-type: none"> ➤ உரைநடை இலக்கியத்தின் அமைப்புமுறை, வளர்ச்சி நிலை, இக்கால நிலை போன்றவற்றை அறிமுகப்படுத்துதல். ➤ உரைநடை ஆசிரியர்களின் தனித்திறன் வளர்நிலைக்காக ஆற்றிய பங்கு போன்றவற்றை பயிற்றுவித்தல். ➤ கதையின் வரலாறு, வளர்நிலை, வகைமைப்பாடு, 	<ul style="list-style-type: none"> ➤ உரைநடை இலக்கியத்தின் அமைப்பு மற்றும் சிறப்புகளை அறிவர். ➤ கதையின் வரலாறு மற்றும் சிறப்புநிலைகளை அறிவர். ➤ புதின இலக்கியத்தின் வரலாறு மற்றும் வகைமைப்பாடுகள் குறித்த

		<p>வேறுபாடு போன்றவற்றை கற்பித்தல்</p> <ul style="list-style-type: none"> ➤ புதினத்திற்கான வரலாறு, வளர்நிலை, வகைப்பாடு வேறுபாடு போன்றவற்றை கற்பித்தல். ➤ நவீன தமிழ் இலக்கியம் என்பதற்கான விளக்கம் பழமையை புதியநோக்கில் ஊடாடிப் பார்க்கும் படைப்பாளர்களின் திறன் போன்றவற்றை பயிற்றுவித்தல். 	<p>அறிவைப் பெறுவர்.</p> <ul style="list-style-type: none"> ➤ நவீனத் தமிழ் இலக்கியத்திற்கான விளக்கம் கட்டுடைத்துப் பார்க்கும் ஆசிரியரின் திறன் போன்றவற்றை அறிவர். ➤ உரையாசிரியர்களின் தனித்திறனைப் பயிற்றுவித்தல். ➤ சிற்றிலக்கிய அமைப்புமுறை மற்றும் வகைப்பாடுகள் குறித்த அறிவு பெறல். ➤ படைப்பாளர்களின் இலக்கியப் பொருண்மை மற்றும் பாடுபொருள் பின்பற்றல் போன்றவற்றை அறிதல்.
கணினித் தமிழ்	P16TAE1	<ul style="list-style-type: none"> ➤ இன்றைய காலகட்டத்தில் கணினியின் தேவையை உணர்த்துதல். ➤ கணினியின் கட்டமைப்பு குறித்து அறிமுகப்படுத்துதல். ➤ கணினித் தமிழின் அடிப்படைப் பயன்பாடு, வளர்நிலை, இணையவழி தமிழ்ப்பயன்பாடு போன்றவற்றை உணர்த்துதல். ➤ இணையவழி கற்றல் மற்றும் கற்பித்தலின் நுணுக்கங்களை உணர்த்துதல். 	<ul style="list-style-type: none"> ➤ கணினியின் பயன்பாட்டு அறிவைப் பெறுவர். ➤ கணினித்தமிழின் அடிப்படைப் பயன்பாடு மாற்றங்கள், இணையவழிப்பயன்பாடு அதன்வழி பெறும் நன்மை போன்றவற்றை அறிதல். ➤ இணையவழி கற்றல் கற்பித்தல் பயன்பாட்டு அறிவைப் பெறல்.
சிற்றிலக்கியம்	P16TA13	<ul style="list-style-type: none"> ➤ சிற்றிலக்கியத்திற்கான வரையறை இலக்கண அமைப்பு, வகைமைப்பாடு போன்றவற்றை அறிமுகப்படுத்துதல். ➤ அந்தாதி, கலம்பகம், பிள்ளைத்தமிழ், குறவஞ்சி, 	<ul style="list-style-type: none"> ➤ சிற்றிலக்கிய அமைப்புமுறை மற்றும் வகைப்பாடுகள் குறித்து அறிவர். ➤ படைப்பாளர்களின் இலக்கியப் பொருண்மை மற்றும் பாடுபொருள்

		<p>தூது போன்ற இலக்கியங்களின் தனித்திறன் போன்றவற்றை பயிற்றுவித்தல்.</p> <ul style="list-style-type: none"> ➤ சிற்றிலக்கிய இலக்கண அமைப்பின் வழி படைப்பாளர்களின் படைப்புகளை பொருத்தப்பாட்டுடன் அறிமுகப்படுத்துதல். 	<p>பின்பற்றல் போன்றவற்றை அறிதல்.</p> <ul style="list-style-type: none"> ➤ சிற்றிலக்கியங்களில் காணலாகும் ரசக் கோட்பாட்டை அறிவர்.
தொல்காப்பியம் - எழுத்ததிகாரம்	P16TAE1	<ul style="list-style-type: none"> ➤ இலக்கண அமைப்பு மற்றும் வகைமைகளை நினைவுப்படுத்துதல். ➤ தொல்காப்பியத்தின் தனிச்சிறப்புகளை அறிமுகப்படுத்துதல். ➤ தொல்காப்பிய எழுத்ததிகாரத்தின் அமைப்பு முறைகள் மற்றும் உட்பிரிவுகளின் சாரத்தை பயிற்றுவித்தல். 	<ul style="list-style-type: none"> ➤
சமய இலக்கியம்	P16TA21	<ul style="list-style-type: none"> ➤ சமூகம் பின்பற்றும் சமயங்களை அறிமுகப்படுத்துதல். ➤ சமயங்களின் வகைப்பாடு தனிச்சிறப்புகள் போன்றவற்றை கற்பித்தல். ➤ சமய வளர்ச்சிக்கு அரும்பணியாற்றிய சமயப் பெரியோர்களின் தனித்துவத்தை கற்பித்தல். ➤ சைவ சமய கருத்தாக்கங்கள் மற்றும் சமயக் குரவர்களின் தனிச்சிறப்புகளை பயிற்றுவித்தல். ➤ வைணவ சமய கருத்தாக்கங்கள் மற்றும் ஆழ்வார்களின் தனித்தன்மைகளை கற்பித்தல். 	<ul style="list-style-type: none"> ➤ சமயம் மற்றும் இறைவழிபாடு சார்ந்த அறிவு பெறல். ➤ சமய வகைப்பாடு சமய வளர்ச்சிக்கு முன்னின்ற சமயப் பெரியோர்களைப் பற்றிய அறிவு பெறல். ➤ சைவ வைணவ சமயக் கருத்தாக்கங்கள் தனித் தன்மைகள் போன்றவற்றை அறிதல்.
காப்பிய இலக்கியம்	P16TA22	<ul style="list-style-type: none"> ➤ காப்பியங்களுக்கான இலக்கண அமைப்புமுறை தனித்தன்மைகள் போன்றவற்றை அறிமுகப்படுத்துதல். ➤ இதிகாசம் மற்றும் புராணங்களின் 	<ul style="list-style-type: none"> ➤ காப்பிய அமைப்பு முறைகள் மற்றும் வகைப்பாடுகள் போன்றவற்றை அறிதல். ➤ காப்பியங்கள் இதிகாசங்கள்,

		<p>அமைப்புமுறைகள் மற்றும் தனித்தன்மைகளை அறிமுகப்படுத்துதல்.</p> <ul style="list-style-type: none"> ➤ கிறிஸ்தவ மற்றும் இஸ்லாமிய காப்பியங்களின் தனித்தன்மைகளை பயிற்றுவித்தல். ➤ இரட்டைக் காப்பியங்களின் தனிச்சிறப்புகள் மதம் சார்ந்த போதனைகள் போன்றவற்றை கற்பித்தல். 	<p>புராணங்கள் போன்றவற்றின் நோக்கங்கள் மற்றும் வேறுபாட்டை அறிதல்.</p> <ul style="list-style-type: none"> ➤ சகோதர மதம் சார்ந்த கருத்தாக்கங்கள், போதனைகள் போன்றவற்றை அறிதல்.
அற இலக்கியம்	P16TA23	<ul style="list-style-type: none"> ➤ கால வளர்ச்சியில் அற இலக்கியத்திற்கான தேவைகளை அறிமுகப்படுத்துதல். ➤ அற இலக்கியத்தின் தனிச்சிறப்புகளை கற்பித்தல். ➤ அற இலக்கியங்களில் இடம் பெறும் மனித வாழ்வியல் ஒழுக்கங்களை எடுத்துக்கூறல். ➤ உலகப் பொதுமறையான திருக்குறளின் தனிச்சிறப்புகளை எடுத்துக்கூறல். ➤ வாழ்வியலுக்கு உகந்த இனிய கருத்துக்களை கற்பித்தல். 	<ul style="list-style-type: none"> ➤ பதினெண்கீழ்க்கணக்கு நூல்களின் வரிசை குறித்து அறிதல். ➤ அற இலக்கியத்தின் தனித்தன்மைகளை அறிதல். ➤ மனித வாழ்வியல் ஒழுக்கங்கள் அதன் வழி அடையும் சிறப்புகளை அறிதல். ➤ உலகப் பொதுமறையான திருக்குறளின் மேன்மைமிகு சிறப்புகளை அறிதல்.
தொல்காப்பியம் (சொல்)	P16TA24	<ul style="list-style-type: none"> ➤ இலக்கண அமைப்பு மற்றும் வகைமைகளை நினைவுப்படுத்துதல். ➤ தொல்காப்பியத்தின் தனிச்சிறப்புகளை அறிமுகப்படுத்துதல். ➤ தொல்காப்பிய சொல்லதிகாரத்தின் அமைப்பு முறைகள் மற்றும் உட்பிரிவுகளின் சாரத்தை பயிற்றுவித்தல். ➤ உரையாசிரியர்களின் தனித்திறனை பயிற்றுவித்தல். 	<ul style="list-style-type: none"> ➤ கடந்த காலங்களில் கற்ற இலக்கண அறிவைப் பெறுவர். ➤ தொல்காப்பிய சொல்லதிகாரத்தின் அமைப்புமுறைகள் மற்றும் உட்பிரிவுகளின் சாரத்தை அறிவர். ➤ சொற்கள் புணரும் முறை அதற்கான இலக்கண அமைப்பு முறைகள் குறித்த அறிவு பெறல்.

			<ul style="list-style-type: none"> ➤ உரையாசிரியர்களின் தனித்திறன் பற்றிய அறிவு பெறல்.
ஒப்பிலக்கியம்	P16TAE2	<ul style="list-style-type: none"> ➤ இலக்கியம் என்பதற்கான பொருள் ஒப்பிலக்கியம் என்பதற்கான விளக்கம் போன்றவற்றை அறிமுகப்படுத்துதல். ➤ ஒப்பிலக்கிய தோற்றம், வளர்நிலை போன்றவற்றை கற்பித்தல். ➤ ஒப்பிலக்கிய வளர்ச்சிக்கு முன்னின்ற தமிழ் அறிஞர்கள் மற்றும் அவர்கள் ஆற்றிய அரும்பணிகளை பயிற்றுவித்தல். ➤ தமிழ் இலக்கண இலக்கியங்களுடன் மேலை நாட்டு இலக்கியங்களை ஒப்பிட்டு இருவகை இலக்கியங்களின் தனித்தன்மைகளை கற்பித்தல். 	<ul style="list-style-type: none"> ➤ இலக்கியம் ஒப்பிலக்கியம் என்பதற்கான அறிவு பெறல் ➤ ஒப்பிலக்கிய வளர்ச்சி முன்னின்ற தமிழ் அறிஞர்கள் பற்றி அறிதல் ➤ தமிழ் இலக்கியங்கள் மேலை நாட்டு இலக்கியங்கள் இவற்றில் காணப்படும் ஒற்றுமை வேற்றுமைப் பண்புகளை அறிதல். ➤ வாழ்வியலில் பகுத்துப் பார்க்கும் பண்பைப் பெறல்.

காதிர் முகைதீன் கல்லூரி, அதிராம்பட்டினம்
முதுகலை இரண்டாமாண்டு - தமிழ்
பாடத்திட்டம் - Code

தாளின் பெயர்	குறியீடு	பாட நோக்கம்	மாணவர் பெறும் திறன்
சங்க இலக்கியம்-1	P16TA31	<ul style="list-style-type: none"> ➤ இலக்குகள் இலட்சியங்கள் அடைய கற்றறிந்து அறிவு சார்ந்த திறன்களைக் கொண்டு விளக்குதல். ➤ செவ்விய இலக்கியங்களான சங்க இலக்கியத்தின் அடிப்படை உணர்வுகளைத் தெரிந்து தம்மை வளர்த்தல். ➤ சங்க இலக்கியங்களில் குறிப்பாக எட்டுத்தொகை நூற்களின் அக, புறத் தன்மைகளை கற்று அவற்றை தெளிவுப்படுத்துதல். ➤ செவ்வியல் இலக்கியப் பண்புகள் எட்டுத்தொகை நூற்களில் கோட்பாட்டு நோக்கில் கற்றல். 	<ul style="list-style-type: none"> ➤ சங்க இலக்கியப் பாடல்களை ஆய்வு நோக்கில் மீள்வாசித்தல் ➤ சங்க இலக்கிய ஆய்வுப் பொருண்மைகளை அறிந்து கொள்ளல் ➤ சங்க கால சமூக அமைப்பினைத் தற்கால சமூக அமைப்போடு ஒப்பிட்டறிதல். ➤ சங்க கால அரசர்களின் வாழ்வியலையும், தற்கால அரசியலையும் ஒப்பிட்டறியச் செய்தல்.
சங்க இலக்கியம்-II	P16TA32	<ul style="list-style-type: none"> ➤ அறிவு சார்ந்த படைப்பாற்றல், பொதுமையான வாசிப்பு, புதுமையானச் சிந்தனைகளை வளர்த்தல். ➤ சமூக விழுமியங்களையும் ஆய்வு நோர்மையும் பின்பற்றி சங்க இலக்கியங்களை தெளிவுறச் செய்தல். ➤ புலவர்களின் புலமைத் தன்மைகளை அவர்கள் தம் பாடல்களைக் கொண்டும் பிற புலவர்களின் பாடல்கள் கொண்டும் ஒப்பிடல் 	<ul style="list-style-type: none"> ➤ தமிழரின் சங்கப் பண்பாட்டு நிலையினை இத்தலைமுறையினர் அறியச் செய்தல். ➤ சங்க இலக்கியப் பாடல்களை குறிப்பாக படித்துப்பாட்டு நூற்களை மீள் வாசித்தல். ➤ சங்க இலக்கிய ஆய்வுப்

		<ul style="list-style-type: none"> ➤ படைப்பிலக்கிய கற்றல் உணர்வு மூலம் மொழித்திறனும் புலப்பாட்டுத் திறனும் வளர்த்தல். 	<p>பொருண்மைகளை அறிந்து கொள்ளுதல்.</p> <ul style="list-style-type: none"> ➤ சங்க கால மக்களின் அரசியல் மற்றும் வாழ்வியல் முறைகளை தற்கால அரசியலோடும் வாழ்வியல் முறையுடனும் ஒப்பிடல்.
<p>ஒப்பீட்டு நோக்கில் உலகச் செம்மொழிகள்</p>	P16TA33	<ul style="list-style-type: none"> ➤ செவ்வியல் இலக்கியங்கள் குறித்த தெளிவான விளக்கங்களையும் அதன் பண்புகளையும் மாணவர் மனத்தில் பதிய வைத்தல். ➤ தமிழ்மொழியின் பழமை சிறப்பு இலக்கிய விழுமியங்கள் ஆகியவற்றைக் கற்பித்தல். ➤ செவ்வியல் இலக்கியங்களை அறியச் செய்தல் ➤ உலக செவ்வியல் மொழிகளோடு தமிழ் மொழியை ஒப்பிடல். 	<ul style="list-style-type: none"> ➤ தமிழ் உலகச் செம்மொழிகளுள் ஒன்று என்பதைத் தெளிவார். ➤ தமிழுக்குச் செம்மொழி தகுதி தந்த தமிழ்ச் செவ்விலக்கியங்களை அறிவார். ➤ தமிழ்ச் செவ்விலக்கியங்கள் தரும் வாழ்வியல் விழுமியங்களை உணர்வார். ➤ செவ்வியல் பண்புகள் தமிழ் இலக்கியங்களில் காணப்படும் பல்வேறு நிலைகளைக் கற்பார்.
<p>தொல்காப்பியம் பொருள் முன் ஐந்து இயல்கள் நச்சினார்க்கினியர் உரை</p>	P16TA34	<ul style="list-style-type: none"> ➤ தமிழின் தொன்மை இலக்கண நூலின் மூலமாக அகம் மற்றும் புறத்திணை கூறுகளை கற்றல். ➤ தொல்காப்பியப் பொருளிலக்கணம் தமிழக கவிதைகளுக்கான கவிதையியல் மரபை உணர்த்துகிறது என்பதைத் தெளிவுப்படுத்துதல். ➤ இலக்கியத்தின் கூறுகளான வடிவம், உள்ளடக்கம், உணர்ச்சி, அணிகள் ஆகியவற்றைப் பொருளதிகாரம் வழி உணர்த்துதல். 	<ul style="list-style-type: none"> ➤ தமிழ் மரபுக் கவிதையின் இலக்கணத்தை அறிவார். ➤ பண்டையத் தமிழ் அக, புற இலக்கிய மரபுகளை அறிதல் ➤ மரபுக் கவிதை படைக்கும் படைப்பாற்றலை பெறுவார்.

		<ul style="list-style-type: none"> ➤ தமிழரின் திணை சார் வாழ்வியலை மாணவர்களுக்குப் பயிற்றுவித்தல். 	
நாட்டுப்புறவியல்	P16TAE3	<ul style="list-style-type: none"> ➤ நாட்டுப்புறவியல் குறித்த அறிவு சார்ந்த விளக்கம், தற்போதைய ஆய்வுப் போக்குகள், அடிப்படைகள் ஆகியவற்றை தெரிதல். ➤ வாய்மொழி இலக்கியங்கள், எட்டிலக்கியங்கள், பழங்கதைகள், கதைப் பாடல்கள் குறித்து தெளிவுப் பெறுதல். ➤ நாட்டுப்புற கோட்பாடுகளையும் அவற்றின் அணுகுமுறைகளையும் நுட்பமாகத் தெரிந்து கொள்ளுதல். ➤ நாட்டுப்புற இலக்கியவாதிகள், நாட்டுப்புற கலைஞர்கள், நாட்டுப்புறத் தெய்வங்கள் ஆகியவற்றின் உண்மைத் தன்மைகளை அறிதல். 	<ul style="list-style-type: none"> ➤ நாட்டுப்புறவியல் கோட்பாடு வகைகளை அறிவர். ➤ மரபு வழிப்பட்ட உணவு, உடை, மருத்துவம் பற்றிக் கற்று கொள்வர். ➤ களப்பணியாளர்கள் தகுதியையும் பணி மேற்கொள்ளும் முறைகளையும் அறிவர். ➤ நாட்டுப்புற ஆய்வு குறித்து பல கோட்பாடுகளையும் கற்றுணர்வர்.
இலக்கியக் கொள்கைகளும் திறனாய்வும்	P16TA41	<ul style="list-style-type: none"> ➤ திறனாய்வின் வகைகள், பணிகள், தகுதிகள், இலக்கிய உணர்ச்சிகள் ஆகியவற்றை மாணவர்கள் கற்றல். ➤ தொல்காப்பியர் கூறும் இலக்கிய இலக்கண உணர்ச்சிகள் கோட்பாடுகளோடு இலக்கியங்களில் ஆய்வுப்படுத்தி தெளிதல். ➤ அழகும், அழகியலும் அதன் புலனுணர்வும் கலைகளின் ஒருங்கிணைப்பும் இலக்கியத்தில் ஆளுமைப் பெறும் திறத்தை அறிதல். ➤ கவிதை, மரபுக் கவிதைகளின் வடிவங்கள், உரைநடையின் அணிநலன்கள், விதிமுறைகள் ஆகியவற்றை மாணவர் தெளிவு பெறுதல். 	<ul style="list-style-type: none"> ➤ திறனாய்வின் அவசியத்தை மாணவர்களுக்குத் தெரியப்படுத்துதல். ➤ திறனாய்வின் கொள்கை, கோட்பாடுகளை மாணவர்கள் அறியச் செய்தல். ➤ திறனாய்வில் அழகியல் கோட்பாடுகளை பற்றி விவரித்தல். ➤ நவீன இலக்கியத்தின் இனங்களை முழுமையாக தெளிந்து உணர்வர்.

<p>தொல்காப்பியம் பொருள் பின் நான்கு இயல்கள் பேராசிரியர் உரை</p>	<p>P16TA42</p>	<ul style="list-style-type: none"> ➤ தொல்காப்பியர் கூறும் செய்யுளியல் கூறுகளை முழுமையாக மாணவர்கள் கற்று உணர்தல். ➤ மெய்ப்பாட்டியல் மூலமாக எண்வகை மெய்ப்பாடுகளையும் அவை பிறக்கும் தன்மைகளையும் இலக்கண உணர்வோடு கற்பிப்பதே. ➤ மரபியல், உவமையியல் குறித்து தொல்காப்பியச் சிந்தனைகளை பிற இலக்கணங்களோடு ஒப்பீட்டு கற்பது. ➤ பொருளதிகாரத்தின் ஒட்டுமொத்த நுணுக்கத்தை கற்று உணர்தல். 	<ul style="list-style-type: none"> ➤ தமிழ் யாப்பிலக்கணத்தை கற்றுத் தெளிவர். ➤ செய்யும் படைக்கும் விதத்தை முழுமையாக உணர்தல் ➤ பல இனங்களை அறிதல், செய்யுள் உறுப்புகளை அறிதல் ➤ மரபுக் கவிதை படைக்கும் தூண்டுதல் பெறுவர்
<p>பெண்ணியம்</p>	<p>P16TAE5A</p>	<ul style="list-style-type: none"> ➤ பெண்ணியம் (Feminism) குறித்து வரையறைகளையும், பல்வேறு விளக்கங்களையும் கற்பது. ➤ பெண்ணியக் கோட்பாடுகள், பெண்ணிய வகைப்பாடுகள், பெண்களின் முன்னேற்றப் பாதைகளை கற்றல். ➤ காலந்தோறும் பெண்ணியம் அடைந்த வளர்ச்சி, வரலாறு குறித்து தெளிவு பெறுதல் ➤ நவீனப் பார்வையில் பெண்ணிய இயல்புகளைப் புரிதல். 	<ul style="list-style-type: none"> ➤ ஆணாதிக்கவாதிகளின் அடக்குமுறைகளை உணர்ந்து பெண்ணிய மரபுகளை மதிக்கும் தன்மைகளை அறிவர். ➤ இறைவன் படைப்பில் பெண்ணியத்தின் பங்கும், ஆற்றலும் அறிவர். ➤ காலந்தோறும் பெண்கள் அடைந்த வளர்ச்சிகளையும் உரிமைகளையும் சட்டங்களையும் குறித்து தெளிவுப் பெறுவர். ➤ பெண்ணிய இலக்கியவாதிகளை அடையாளம் காணுவர்.

<p>இசுலாமும் தமிழும்</p>	<p>P16TAE4C</p>	<ul style="list-style-type: none"> ➤ இஸ்லாமியர்களின் ஐம்பெரும் கடமைகள், இஸ்லாமியத் தோற்றப் பின்புலம், அடிப்படைக் கொள்கைகள் அறிதல். ➤ இஸ்லாமிய ஒழுக்கம், திருக்குர்ஆன் கூறும் ஏவல், விளக்கங்கள் குறித்து மாணவர் தெளிவு பெறுதல். ➤ இஸ்லாமியர் அறிமுகப்படுத்திய புதுவகை சிற்றிலக்கியங்களையும் ஞான இலக்கியங்களையும் குறித்து தெளிவு பெறுதல். ➤ இஸ்லாமியர் தமிழுக்கு ஆற்றிய தொண்டுகள் குறித்து மாணவர்களுக்கு விளங்க வைத்தல். 	<ul style="list-style-type: none"> ➤ இறைத்தூதரின் வாழ்வும், வரலாறும் அறிவர். ➤ இஸ்லாமிய காப்பியங்களின் வழி பல இறைத்தூதர்களைப் பற்றி முழு அறிவு பெறுவர். ➤ மெய்ஞ்ஞான இலக்கியங்கள் வழி இஸ்லாமிய ஆன்மீகத்தை வளர்த்தல். ➤ ஏகத்துவக் கொள்கையை கற்று அறிவர். ➤ இஸ்லாமிய வாழ்வியல் நூட்பங்களை தெளிவு பெறுவர்.
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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)

Semester	Course / Title of the paper	Course objectives
I	Invertebrata I (Protozoa – Nematoda)	<ul style="list-style-type: none"> • To enlighten the students about the diverse forms of Invertebrate animals belong to 5 major phyla (Protozoa to Nematoda) present around us. • To help our students to distinguish various Invertebrate animals (Protozoa to Nematoda) • To know the evolutionary sequence of them.
II	Invertebrata II	<ul style="list-style-type: none"> • To enlighten the students about the diverse forms of Invertebrate animals belong to 5 major phyla (Annelida to Echinodermata) present around us. • To help our students to distinguish various Invertebrate animals (Annelida to Echinodermata) • To know the evolutionary sequence of them.
I & II	Invertebrata I & Invertebrata II (P)	<ul style="list-style-type: none"> • To impart training on the techniques of dissecting the Invertebrate animals and to understand the various systems present in their body. • To demonstrate the technique of in silico dissection of invertebrate animals. • To train the students to discriminate the various external body parts of Invertebrates. • To observe the preserved invertebrate animals in the museum (wet and dry) and to study their characteristic features.
III	Chordata	<ul style="list-style-type: none"> • To enlighten the students about the diverse forms of Vertebrate animals which belong to 5 major classes present around us. • To help our students to distinguish various vertebrate animals • To know the evolutionary sequence of them.
IV	Cell and Molecular Biology	<ul style="list-style-type: none"> • To understand the cell and cellular details with their significance. • To train the students about various types of animal cell structures with their characteristic features and detailed functions. • To understand the structure and function at molecular level in prokaryote and Eukaryote.

III & IV	Chordata& Cell and Molecular Biology (P)	<ul style="list-style-type: none"> • To impart training on the techniques of dissecting the vertebrate animals and to understand the various systems present in their body. • To demonstrate the technique of in silico dissection of vertebrate animals. • To train the students about the various types of animal cells and molecular structures with their characteristic features and detailed functions.
IV	Biofertilisers and Biopesticides	<ul style="list-style-type: none"> • To understand the basics of biofertilizers and their cultivation. • To study about mycorrhiza and their isolation and production. • To impart knowledge on pesticides and their control by biopesticides, including their production and commercialization.
V	Animal Physiology	<ul style="list-style-type: none"> • The study of Physiology helps in understanding how the body functions adapts with respect to its external and internal environment, related to nervous integration, sensation, metabolism and reproduction.
V	Genetics and Evolution	<ul style="list-style-type: none"> • Giving a basic overview of genes, mutations, sex determination and patterns of inheritance. • An understanding of the chromosomal inheritance and expression of human genetic characters and disorders. • To understand the evolution of life.
V	Microbiology	<ul style="list-style-type: none"> • Microbiology emphasis the infectious diseases that are of great actual or potential importance to humans. • To provide students with the latest information in scientific microbiological methods.
V	Animal physiology, Genetics and Evolution & Microbiology (P)	<ul style="list-style-type: none"> • To impart training on the techniques of physiological concepts in vertebrate animals and to understand molecular structures, genetical importance and evolutionary significance. • To train the students about bacterial cells and culture techniques.
V	Economic Entomology	<ul style="list-style-type: none"> • To enlighten the students on beneficial and harmful insects, their biology, their nature of damage and their management measures. • To teach our students about pests which attack our crops and their management measures.
V	Skill Based Elective – II - Pharmacognosy	<ul style="list-style-type: none"> • To identify drug from natural origin and their supply, cultivation, collection, storage along with their special conditions. • To apply the methods for the quality control and confirmity of drugs from natural origin. • identify appropriate methods according to the source of the natural product material.

V	Skill Based Elective – III - Herbs and Drugs action	<ul style="list-style-type: none"> • To classify the medicinal plants based on their effects. • To study the drugs acting on brain, nervous system and Cardiovascular diseases. • To know the action of Drugs for urinogenital disorders.
VI	Environmental Biology	<ul style="list-style-type: none"> • Environmental Biology is designed to provide fundamental ecological principles that provides in-depth understanding of our natural world, the scientific basis for understanding how environmental systems work, the environmental issues, environmental problems, effects and solutions.
VI	Developmental Biology	<ul style="list-style-type: none"> • Developmental Biology is an experimental science, which provides understanding of the processes of early embryonic development, • To analyze the mechanisms of development by experimental manipulation of developing embryos and to review current developments in the field of embryology.
VI	Environmental Biology & Developmental Biology (P)	<ul style="list-style-type: none"> • To provide fundamental ecological principles that provides in-depth understanding of our natural world, the scientific basis for understanding how environmental systems work. • Developmental Biology provides understanding of the processes of early embryonic development and developing embryos
VI	Immunology	<ul style="list-style-type: none"> • Immunology course emphasis the function of immune system, structure and function of immunoglobulin and immunological techniques.
VI	Biophysics & Biostatistics	<ul style="list-style-type: none"> • To emphasis basic idea about the Biostatistics and its application. • To emphasis the principle and biological applications of Microscope, chromatograph, electrophoresis and spectroscope.

Allied Zoology for B.Sc.Botany

Semester	Course / Title of the paper	Course objectives
I	Biology of Invertebrates and Chordates	<ul style="list-style-type: none"> • To enlighten the students about the diverse forms of Invertebrate and Vertebrate animals present around us. • To help our students to distinguish various animals • To know the evolutionary sequence of them.

I & II	Biology of Invertebrates & Chordates and Commercial Zoology	<ul style="list-style-type: none"> • To impart training on the techniques of dissecting the animals • To understand the various systems present in their body. • To demonstrate the technique of in silico dissection of invertebrate and chordate animals. • To make them aware of commercially important animals.
II	Commercial Zoology	<ul style="list-style-type: none"> • To enlighten the students about the honey bees, its life style, the social behavior • The silkworm and Vermiculture and its self-employment opportunities. • Students may be benefitted by the culture practices and the economic importance.

Allied Zoology for B.Sc. Home Science

Semester	Course / Title of the paper	Course objectives
I	Applied Zoology	<ul style="list-style-type: none"> • To understand the basic concepts of Apiculture and Sericulture • To know the methodology of ornamental fish culture and pearl culture • To conceive the tissue culture concepts
I & II	Applied Zoology and Human Physiology (P)	<ul style="list-style-type: none"> • To impart training on the techniques of dissecting the Invertebrate and vertebrate animals and to understand the various systems present in their body. • To demonstrate the technique of in silico dissection of invertebrate and vertebrate animals. • To train the students to discriminate the various external body parts of Invertebrates. • To observe the preserved animals in the museum (wet and dry) and to study their characteristic features. • To train the students about the various types of animal cells and molecular structures with their characteristic features and detailed functions. • To understand the body functions and its adaptations with respect to its external and internal environment, related to nervous integration, sensation, metabolism and reproduction.
II	Human Physiology	<ul style="list-style-type: none"> • To enable the students to understand the structure and functions of various organs of the body • To obtain a better understanding of the principles of nutrition through the study of physiology • Appreciate the importance of hormonal and nervous regulation of the body.

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)

Semester	Course / Title of the paper	Course objectives
I	Functional Morphology & paleontology of Invertebrates & Chordates	<ul style="list-style-type: none"> • To know the distribution, taxonomy and phylogeny of animal. • To enlighten the primitive forms of invertebrates and vertebrates distribution. • To help our students to understand the status and mode of living of different forms of animals.
I	Cell & Molecular Biology	<ul style="list-style-type: none"> • To understand the structure at molecular level and function of prokaryote and eukaryote cell. • To enlighten our students about the cellular organelles and its functions. • To understand the Cell communications and signaling pathways.
I	Molecular Genetics & Evolution	<ul style="list-style-type: none"> • To enlighten our students about the DNA and its functions. • To improve the knowledge in the molecular biology and genetics will provide diagnosis of genetic disorders and treatment at molecular level. • To provide basic information of molecular phylogenies and evolution
I	Developmental biology	<ul style="list-style-type: none"> • To provide the process of early embryonic development and review the current development in the field of embryology. • To understand the formation of embryo and embryological disorders and treatment methodology. • To enhance the precaution and health care during pregnancy and gestation.
I	Animal Taxonomy, Phylogeny and Biodiversity, Cell and Molecular Biology, Molecular Genetics and Evolution & Developmental Biology (P)	<ul style="list-style-type: none"> • To obtain knowledge about the identification and classification of animals. • To get the information of animal population - the phylogeny and fossil forms in the title of animal diversity. • To impart the knowledge and concepts of Cell and Molecular Biology, Molecular Genetics and Evolution, Developmental Biology
II	Animal Physiology	<ul style="list-style-type: none"> • To understand the body functions • To enhance the knowledge on external and internal environment • To understand the nervous integration, sensation, metabolism and reproduction.
II	Biochemistry & Biophysics	<ul style="list-style-type: none"> • To understand the biochemical and biophysical aspects related to living organisms. • To know the life supporting molecules, their metabolism, biological oxidation and its relevance. • To understand the Biophysical aspects and their properties.

II	Practical II - Animal Physiology & Biochemistry & Biophysics	<ul style="list-style-type: none"> • To obtain knowledge about the physiological mechanism from animal models on respiration, excretion and some blood parameters. To identify the endocrine glands and their secretions.
II	Applied Biotechnology	<ul style="list-style-type: none"> • To understand the applied aspects of biotechnology in medical, agricultural, industrial, microbial and environmental fields. • To understand the uses of the recombinant techniques • To increase the knowledge on the application recombinant techniques for the betterment of mankind.
II	Coastal geomorphology	<ul style="list-style-type: none"> • To prepare the students for self-employment in the opened areas like costal geomorphology • To prepare the students for self-employment in fishery biology. • To increase the relevant knowledge in costal morphology, diversity and ecosystems and their impacts
III	Microbiology	<ul style="list-style-type: none"> • To know the history and Scope of microbiology • To understand the Microbial Technology, Microorganisms and Environment • To understand the aspects food microbiology, microbial diseases and treatment.
III	Biostatistics and Computer Applications	<ul style="list-style-type: none"> • To know the statistical problems in biological science • To increase the statistical knowledge of students for their research works. • To provide a basic knowledge in computer and its applications for further research.
III	Microbiology & Biostatistics and Computer Applications (P)	<ul style="list-style-type: none"> • To obtain practical knowledge about the microbial mechanism from experiments with growth and metabolism. • To identify the problems related to biological sciences and biostatics. • To understand the use of computers in biological field.
III	Research Methodology and Biotechniques	<ul style="list-style-type: none"> • To give information about how to write/publish a thesis and its basic steps. • To understand microtechniques, immunotechniques and tissue culture techniques. • To understand the cryotechniques.
III	Fishery biology	<ul style="list-style-type: none"> • To give information about the culture of fishes and crabs. • To give an idea for the self- employment opportunities to the students. • To understand the role of different research organizations and funding agencies to promote aquaculture.
IV	Environmental Biology	<ul style="list-style-type: none"> • To give information about the environment of biotic and abiotic factors • To understand the bio-geo chemical cycles, Habitat, population ecology,pollution and their control measures. • To understand the toxicant related with environment, the toxic effects in different fields and to find out the environmental pollutants.

IV	Immunology	<ul style="list-style-type: none"> • To obtain knowledge about immune systems, cells of immunity and its role in protection of our body. • To understand the Antigen, antibody concepts, hypersensitivity, MHC and complement pathways. • To know the different immunological techniques used in the clinical testing.
IV	Environmental Biology & Immunology (P)	<ul style="list-style-type: none"> • To obtain practical knowledge on biotic and abiotic factors of environment • To understand the causes of pollution and estimation toxic effects in different fields. • To obtain the practical knowledge on immune systems, Antigen and antibody reactions. • To understand the different immunological techniques used in the clinical testing.
IV	Aquaculture	<ul style="list-style-type: none"> • To give information about the culture of fishes and crabs. • To give an idea for the self-employment opportunities to the students. • To understand the role of different research organizations and funding agencies to promote aquaculture.