



**SOKA IKEDA COLLEGE OF ARTS AND SCIENCE FOR WOMEN**  
(Affiliated to the University of Madras)  
Chennai 600 099, Tamilnadu.

**DEPARTMENT OF TAMIL**

**B.A. TAMIL**

**Programme Outcomes**

At the end of the programme, students	
<b>PO1</b>	Learn Tamil literature and grammar in detail.
<b>PO2</b>	Learn the history of Tamil Nadu along with the history of Tamil Literature.
<b>PO3</b>	Learn various literary elements from ancient to modern literature.
<b>PO4</b>	Understand linguistics and develop critical thinking.
<b>PO5</b>	Have knowledge of the internet along with classical Tamil literature.
<b>PO6</b>	Imbibe moral values and environmental consciousness.

**B.A. TAMIL**

**Programme Specific Outcomes**

At the end of the programme, students	
<b>PSO1</b>	Gain knowledge about grammar and linguistics and understand the history and culture of Tamils.
<b>PSO2</b>	Understand the ethics and morality of epic and devotional Literature.
<b>PSO3</b>	Learn the specialties and literary values of minor literature.
<b>PSO4</b>	Understand the origins of Folklore and Journalism.
<b>PSO5</b>	Create traditional and modern poems and short stories, and also have knowledge of Tamil computing and the internet.
<b>PSO6</b>	Gain knowledge and skills to write various ompetitive exams.



  
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**DEPARTMENT OF ENGLISH**

**B.A. ENGLISH**

**Programme Outcomes**

At the end of the program, students	
<b>PO1</b>	Develop good communication skills, critical thinking skills, professional skills, and life skills.
<b>PO2</b>	Analyze and understand environmental and socio-political issues.
<b>PO3</b>	Learn and adapt to technological changes.
<b>PO4</b>	Develop a holistic understanding of the discipline that helps to pursue higher education or a career.
<b>PO5</b>	Understand the ideas and views of writers from different backgrounds.

**B.A. ENGLISH**

**Programme Specific Outcomes**

At the end of the program, students	
<b>PSO1</b>	Learn the literary traditions of the world and compare them and relate it to the contemporary scenario.
<b>PSO2</b>	Understand the complex issues of identity, nationalism, historical tradition of different countries.
<b>PSO3</b>	Use English effectively in real-life communication.
<b>PSO4</b>	Learn to compare the cultural context in different literature and analyze the literary texts.
<b>PSO5</b>	Learn to create literary works with imagination and a deeper understanding of life.



  
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**DEPARTMENT OF BIOCHEMISTRY**  
**B.Sc. BIOCHEMISTRY**  
**Programme Outcomes**

<b>PO1</b>	To foster growth as a successful researcher and establish themselves as entrepreneurs by understanding the central features of the diverse fields of life science.
<b>PO2</b>	Students could observe safety practices in laboratories and effectively communicate biochemical concepts.
<b>PO3</b>	To impact creative and critical thinking, to assume, validate assumptions, solve problems, and manage projects in multidisciplinary environments.
<b>PO4</b>	To participate in various types of employment and developmental activities and in public discourses, particularly in response to the needs of the community.
<b>PO5</b>	To enhance communicative and interpersonal skills and to analyze and create solutions for local and global communities.

**B.Sc. BIOCHEMISTRY**  
**Programme Specific Outcomes**

<b>PSO1</b>	Apply the knowledge and expertise in industries, diagnostic laboratories and various research fields.
<b>PSO2</b>	Impart practical skills and scientific knowledge in the domains of molecular biology, enzymology, genetics, clinical biochemistry, biotechnology and immunology.
<b>PSO3</b>	The students will be able to pursue careers in academia, research and industry in the areas of pharmaceuticals and biotechnology.
<b>PSO4</b>	The students will adopt an ethical attitude towards social challenges and be responsible for environmental issues.



  
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**DEPARTMENT OF COMPUTER SCIENCE**

**B.Sc. COMPUTER SCIENCE**

**Programme Outcomes**

<b>PO1</b>	Understand the basic principles and concepts of Computer science, integrate the knowledge gained in the computer science domain with the practical needs of society, and be an ethically and socially responsible Computer Science professional.
<b>PO2</b>	Explore emerging technologies in diverse areas of Computer Science and inculcate skills for a successful career, entrepreneurship, and higher studies.

**B.Sc. COMPUTER SCIENCE**

**Programme Specific Outcomes**

<b>PSO1</b>	Apply the concepts of Computer and practices via emerging technologies and Software development tools.
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**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS**

**Programme Outcomes**

<b>PO1</b>	The programme develops the ability to think critically, logically and analytically thereby preparing the students to enhance career opportunities in Industries, Commerce, Education and Research.
<b>PO2</b>	The programme enables the students to enhance their computational skills and Mathematical reasoning.
<b>PO3</b>	The programme increases one's capacity for communication, values and ethics, life skills, environmental awareness, and technological creation.

**B.Sc. MATHEMATICS**

**Programme Specific Outcomes**

<b>PSO1</b>	Enhance the ability of learners to apply the knowledge and skills acquired during the programme to solve specific theoretical and applied problems in Mathematics.
<b>PSO2</b>	Develop broad and balanced knowledge and understanding of definitions, concepts, principles and theorems.



  
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**DEPARTMENT OF BUSINESS ADMINISTRATION**

**BBA**

**Programme Outcomes**

<b>PO1</b>	Graduates will understand effective leadership techniques, including aspects of character and ethical decision-making.
<b>PO2</b>	The programme also focuses on various aspects of management skills such as human resource management, marketing management, financial management, Entrepreneurial development, production and quality control management etc., to excel in administrative positions and lead a business.

**BBA**

**Programme Specific Outcomes**

<b>PSO1</b>	The programme initiates with what management is; it educates how to plan, organize, and get the right resource for the right job; leadership and motivation; decision-making; and lastly, controlling. The aim of the work is to achieve effective and efficient results.
<b>PSO2</b>	The programme also helps the students become acquainted with dealings and analysis of money flow for investment in business and focuses on ratios, debt and equity, distribution of dividends, capital raising, and even looking after fluctuations of foreign currency and the business cycle.



  
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**DEPARTMENT OF COMMERCE**

**B.Com. GENERAL**

**Programme Outcomes**

<b>PO1</b>	Knowledge of Commerce and its scope and importance in various areas such as Production, Distribution, Stock market, Commodity market, Marketing, Agricultural, Industrial, Banking, law, social sciences, etc.
<b>PO2</b>	Information about various forms of Commercial organizations in India and their functions for societal developments.
<b>PO3</b>	Knowledge of various types of Business units, their organization and evaluation of summary measures such as profit and loss, Fund Flow and cash flow, Changes in Direct and Indirect taxes, new ventures in Business and new handling of Business Data.
<b>PO4</b>	Knowledge of other Allied subjects reflecting quality characteristics including concepts of various subjects.
<b>PO5</b>	Insights into the preliminary exploration of different subjects.
<b>PO6</b>	Knowledge of Law, Statistics, Operations Research, Cost accounts, Management accounting, Financial and corporate accounts and other updated taxes etc.

**B.Com. GENERAL**

**Programme Specific Outcomes**

<b>PSO1</b>	The course helps the aspirants to acquire knowledge in the field of accounting, taxation, auditing, risk management, law and communication.
<b>PSO2</b>	Conveys to the learners the current trends in business.
<b>PSO3</b>	Learners venture into Managerial positions in the areas of Banking, Insurance, Auditing, Company Secretary, Teaching, Stock Market, Government Employment etc.



  
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**DEPARTMENT OF COMPUTER APPLICATIONS**

**BCA**

**Programme Outcomes**

<b>PO1</b>	Understand the basic principles and concepts of Computer applications, integrate the knowledge gained in the computer application domain with the practical needs of society, and be an ethically and socially responsible Computer Application Professional.
<b>PO2</b>	Explore emerging technologies in diverse areas of Computer Application and inculcate skills for successful career, entrepreneurship and higher studies.
<b>PO3</b>	Develop mathematical ability, communication skills, professional skills and develop the personality without sacrificing the concern for social welfare and environmental protection.

**BCA**

**Programme Specific Outcomes**

<b>PSO1</b>	Explore technical comprehension in varied areas of Computer Applications and experience a conducive environment for cultivating skills for a thriving career and higher studies.
<b>PSO2</b>	Comprehend, explore and build up computer programmes in the areas like Algorithms, System Software, Multimedia, Web Design and Data Analytics for efficient design of computer-based systems of varying complexity.
<b>PSO3</b>	Identify, formulate and analyze complex real-life problems in order to arrive at computationally viable conclusions using the fundamentals of mathematics, computer science, accounting and relevant domain disciplines.



  
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**DEPARTMENT OF INFORMATION SYSTEM MANAGEMENT**

**B.Com. ISM**

**Programme Outcomes**

<b>PO1</b>	Knowledge of Commerce and its scope and importance in various areas such as Production, Distribution, the stock market, commodity markets, marketing, agriculture, industrial banking, Law and Social sciences, etc.
<b>PO2</b>	Information about various forms of commercial organisations in India and their functions for societal developments.
<b>PO3</b>	Knowledge of various types of Business Units, their organisation, and evaluation of summary measures such as Profit and loss, Fund flow and cash flow, Changes in Direct and Indirect taxes, New ventures in business, and new handling of Business data
<b>PO4</b>	Knowledge of other Allied Subjects reflecting quality characteristics including concepts of various subjects.
<b>PO5</b>	Insights into the preliminary exploration of different subjects.
<b>PO6</b>	Knowledge of Law, Statistics, Operation Research, Cost Accounts, Management Accounting, Financial and Corporate accounts and other updated taxes etc.

**B.Com. ISM**

**Programme Specific Outcomes**

<b>PSO1</b>	Students will acquire knowledge and skills in different areas of communication, decision-making, innovation, and problem solving in day-to-day business activities.
<b>PSO2</b>	Students equip themselves to be potentially rich and employable in the field of computer applications.
<b>PSO3</b>	Take up self-employment in the Indian and global software markets.
<b>PSO4</b>	Pursue higher education in the field of management and computer applications.
<b>PSO5</b>	Students get opportunities to explore many career paths like Investment, Portfolio management, Stock market analysis, Security analysis, and System analysis.



  
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**DEPARTMENT OF ECONOMICS**

**B.A. ECONOMICS**

**Programme Outcomes**

<b>PO1</b>	To provide both traditional and modern knowledge to work in a professional sphere.
<b>PO2</b>	To supplement the above with inter-disciplinary training to obtain a better understanding.
<b>PO3</b>	To prepare the student for state and national-level competitive examinations especially TNPSC/TRB/UPSC Civil Services Examinations.

**B.A. ECONOMICS**

**Programme Specific Outcomes**

<b>PSO1</b>	Apply the fundamental principles of economics to evaluate day-to-day problems.
<b>PSO2</b>	Investigate changes in the economic environment.
<b>PSO3</b>	Suggest measures to solve practical problems in society.



  
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**DEPARTMENT OF PSYCHOLOGY**

**B.Sc. PSYCHOLOGY**

**Programme Outcomes**

<b>PO1</b>	The programme helps students to demonstrate the acquisition of both factual knowledge and ability to conceptualize and also apply this knowledge to their own behaviour, ways of interacting with others and extend their roles in society.
<b>PO2</b>	The programme helps the students to apply the principles of the scientific method and critical thinking.
<b>PO3</b>	The programme helps students contribute to society's wellbeing by helping people understand their behaviours and emotions and manage them to lead a better lifestyle.
<b>PO4</b>	The students as psychologists can contribute to every aspect of human life.
<b>PO5</b>	This programme enables students to counsel people with emotional distress and enhance their wellbeing.

**B.Sc. PSYCHOLOGY**

**Programme Specific Outcomes**

<b>PSO1</b>	The programme helps students contribute to society's wellbeing by helping people understand their behaviours and emotions and manage them to lead a better lifestyle.
<b>PSO2</b>	The students as psychologists can contribute to every aspect of human life.
<b>PSO3</b>	This programme enables students to counsel people with emotional distress and enhance their wellbeing.
<b>PSO4</b>	This programme opens avenues for branching out and specialisation in different areas of psychology and allows students to have better prospects when applying for the civil service examination.



  
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**DEPARTMENT OF PHYSICS**

**B.Sc. PHYSICS**

**Programme Outcomes**

<b>PO1</b>	Acquire a thorough understanding of physical phenomena and identify the principles and basic concepts in physics.
<b>PO2</b>	Tests the validity of physical theories using the scientific method.
<b>PO3</b>	Apply numerical methods and the mathematical approach involved in physics to research.
<b>PO4</b>	Employ critical thinking and efficient problem-solving skills in all the basic areas of physics.
<b>PO5</b>	Develop interpersonal, traditional practical techniques in chemistry and digital communication skills which are essential in modern scientific endeavour.
<b>PO6</b>	Use observations to test the validity of a theory in a logical, unbiased, and repeatable way.

**B.Sc. PHYSICS**

**Programme Specific Outcomes**

<b>PSO1</b>	This programme enables the students to develop scientific temper, observation skills, problem-solving and critical thinking skills.
<b>PSO2</b>	It empowers students with knowledge leading to higher learning in applied sciences.
<b>PSO3</b>	Develop a deeper understanding of various aspects of physics.



  
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**DEPARTMENT OF CORPORATE SECRETARYSHIP**

**B.Com. CORPORATE SECRETARYSHIP**

**Programme Outcomes**

<b>PO1</b>	The prime objective of the course is to create a world-class academic environment field of commerce and business.
<b>PO2</b>	The course will prepare the students to respond to the needs of industry and administration.

**B.Com. CORPORATE SECRETARYSHIP**

**Programme Specific Outcomes**

<b>PSO1</b>	To specialize in areas like Finance, Securities, Accounting and Legislations.
<b>PSO2</b>	Applying both quantitative and qualitative knowledge in their careers.
<b>PSO3</b>	Opens scope for graduates to pursue courses such as M. Com, MBA, MSW, MA HRM and also professional courses like ACS, C.A, and CMA.



  
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**DEPARTMENT OF ACCOUNTING & FINANCE**

**B.Com. ACCOUNTING & FINANCE**

**Programme Outcomes**

<b>PO1</b>	Knowledge of Commerce and its scope and importance in various areas such as production, distribution, stock market, commodity market, marketing, agriculture, industrial, banking, law, social sciences, etc.
<b>PO2</b>	Information about various forms of commercial organisations in India and their functions for societal developments.
<b>PO3</b>	Knowledge of various types of business units, their organisation, and evaluation of summary measures such as Profit and loss, Fund flow, cash flow, changes in Direct and Indirect taxes, New ventures in business, and new handling of business data
<b>PO4</b>	Knowledge of other allied subjects reflecting quality characteristics including concepts of various subjects.
<b>PO5</b>	Insights into the preliminary exploration of different subjects.
<b>PO6</b>	Knowledge of Law, Statistics, Operation Research, Cost Accounts, Management Accounting, Financial and Corporate Accounts and other updated taxes etc.

**B.Com. ACCOUNTING & FINANCE**

**Programme Specific Outcomes**

<b>PSO1</b>	This programme aims at providing students with knowledge on accounting, taxation and managerial concepts.
<b>PSO2</b>	It enables students to emerge as professionals in the fields of tax, accounting, and finance.
<b>PSO3</b>	The programme also offers students a 360-degree understanding of various sectors such as banking, insurance, and the stock market.



  
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**DEPARTMENT OF HISTORICAL STUDIES**

**B.A. HISTORICAL STUDIES**

**Programme Outcomes**

<b>PO1</b>	Understand the basic themes, concepts, chronology, and scope of Indian History.
<b>PO2</b>	Acquaint themselves with a range of issues related to Indian History that span distinct eras.
<b>PO3</b>	Understand the History of countries other than India with a comparative approach.

**B.A. HISTORICAL STUDIES**

**Programme Specific Outcomes**

<b>PSO1</b>	Understand the background of our religion, customs institutions, administration, and so on.
<b>PSO2</b>	Understand the present social, political, religious, and economic conditions of the people.
<b>PSO3</b>	Analyse the relationship between the past and the present, which is vividly presented in history.



  
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**DEPARTMENT OF SOCIOLOGY**

**B.A. SOCIOLOGY**

**Programme Outcomes**

<b>PO1</b>	To exhibit theoretical knowledge to understand and analyse various social problems.
<b>PO2</b>	To analyse the concepts of man and society.
<b>PO3</b>	Imbibe the social aspects of the educational, political, religious, and economic systems.
<b>PO4</b>	Obtain employment skills with knowledge of professional ethics.
<b>PO5</b>	Prepare students for higher education and relevant research work.

**B.A. SOCIOLOGY**

**Programme Specific Outcomes**

<b>PSO1</b>	The study prepares an individual to become a useful member of society and the nation at large.
<b>PSO2</b>	It highlights various problems prevalent in society and measures to come out of them.
<b>PSO3</b>	It gives knowledge about communities in which he or she interacts, like rural, urban, and tribal communities.



  
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**DEPARTMENT OF TAMIL**

**M.A. TAMIL**

**Programme Outcomes**

At the end of the programme, students	
<b>PO1</b>	Gain knowledge in the field of Tamil language by studying in depth, starting from ancient Tamil literature and grammar to contemporary literature.
<b>PO2</b>	Will get the ability to create literary works and also get the ability to review literature.
<b>PO3</b>	Develop imagination, critical thinking and critical thinking skills.
<b>PO4</b>	Understand the cultural values.
<b>PO5</b>	Students gain the ability to analyse and understand social, cultural, literary and cultural issues and deal with them effectively.

**M.A. TAMIL**

**Programme Specific Outcomes**

At the end of the programme, students	
<b>PSO1</b>	Learn the specialties of modern literature and the nuances of minor literature.
<b>PSO2</b>	Learn the ethical and social values of life through ancient literature.
<b>PSO3</b>	Gain knowledge of linguistics and the fundamentals of grammar through Tholkappiyam and develop writing skills.
<b>PSO4</b>	Learn the basics of translation, translation methods and gain knowledge of computers and the history of journalism.
<b>PSO5</b>	Learn about the civilization, culture and economic progress through tourism and inculcate knowledge of various fields related to Tamil.



  
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**DEPARTMENT OF ENGLISH**

**M.A. ENGLISH**

**Programme Outcomes**

At the end of the program, students	
<b>PO1</b>	Develop critical insights into life and find answers and solutions to problems.
<b>PO2</b>	Have an in-depth knowledge of the study of language and its various functions.
<b>PO3</b>	Understand the historical, social, and political aspects and relate them to the current scenario.
<b>PO4</b>	Develop a desire for research and pursue it.
<b>PO5</b>	Understand and act according to values learned and contribute to society.

**M.A. ENGLISH**

**Program Specific Outcomes**

At the end of the program, students	
<b>PSO1</b>	Have profound comprehension of literature and develop a critical approach towards literature.
<b>PSO2</b>	Critically analyze a text both from the historical and contemporary social perspective.
<b>PSO3</b>	Present their ideas briefly and lucidly.
<b>PSO4</b>	Develop a research aptitude and present their independent ideas effectively.
<b>PSO5</b>	Learn employability skills to excel in professions like teaching and get exposed to various activities to empower them through communication skills.
<b>PSO6</b>	Understand socio-political and economic inequalities and environmental issues.
<b>PSO7</b>	Learn methods of translation.



  
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**DEPARTMENT OF COMMERCE**

**M.Com. GENERAL**

**Programme Outcomes**

<b>PO1</b>	<b>Critical Thinking</b> – take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
<b>PO2</b>	<b>Problem Solving</b> – solve problems from the disciplines of concern using the knowledge skills and attitudes acquired from humanities / science/ mathematics/social sciences.
<b>PO3</b>	<b>Effective Communication</b> – Speak, read, write and listen clearly in person and through electronic media in English and in one Indian Language, and make meaning of the world by connecting people, ideas, books, media and technology.
<b>PO4</b>	<b>Individual and team work</b> – function effectively as an individual, and as a member or leader in diverse teams, and in wide variety of settings.
<b>PO5</b>	<b>Ethics</b> – Understand multiple value systems including your own, the moral dimensions of your decisions, and accept responsibility for them.
<b>PO6</b>	<b>Environment and Sustainability</b> – Understand the impact of technology and business practices in societal and environmental context, and sustainable development.
<b>PO7</b>	<b>Self-directed and life-long learning</b> – Demonstrate the ability to engage in independent and life-long learning in the broadest context socio-technological changes.
<b>PO8</b>	<b>Computational thinking</b> – Understand data-based reasoning through translation of data into abstract concept using computing technology-based tools

**M.Com. GENERAL**

**Programme Specific Outcomes**

<b>PSO1</b>	Learners move towards research in the field of Commerce.
<b>PSO2</b>	Proceed towards Self-employment.
<b>PSO3</b>	Student's leads for professional courses like MBA/CA/ACS/CMA etc.



  
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**DEPARTMENT OF MATHEMATICS**

**M.Sc. MATHEMATICS**

**Programme Outcomes**

<b>PO1</b>	Demonstrate intense knowledge in their discipline.
<b>PO2</b>	Exhibit specialized skills to plan, analyze and draw conclusions related to their respective field of study in theory and in practice.
<b>PO3</b>	Develop expertise in their field of study through projects and research activities.
<b>PO4</b>	Prepare them to incorporate new technologies in their own discipline and demonstrate excellence in their area of specialization.
<b>PO5</b>	Develop social and ethical responsibility in the transfer and management of knowledge.

**M.Sc. MATHEMATICS**

**Programme Specific Outcomes**

<b>PSO1</b>	Apply the knowledge of mathematical concepts in interdisciplinary fields. Understand the nature of abstract mathematics and explore the concepts in further details.
<b>PSO2</b>	Identify challenging problems in mathematics and find appropriate solutions.
<b>PSO3</b>	Pursue research in challenging areas of pure/applied mathematics. Employ confidently the knowledge of mathematical software and tools for treating the complex mathematical problems and scientific investigations.
<b>PSO4</b>	Comprehend and write effective reports and design documentation related to mathematical research and literature, make effective presentations. Qualify national level tests like NET/GATE etc.
<b>PSO5</b>	Effectively communicate and explore ideas of mathematics for propagation of knowledge and popularization of mathematics in society.



  
**PRINCIPAL**  
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**DEPARTMENT OF COMPUTER SCIENCE**  
**M.Sc. COMPUTER SCIENCE**  
**Programme Outcomes**

<b>PO1</b>	To possess advanced knowledge of Computing, Mathematical basics for contemporary Computing Specialization and Knowledge of defined problem domain.
<b>PO2</b>	To identify a prospective domain, review research literature and analyze the problems using mathematical methods and suggest.
<b>PO3</b>	To have the ability to use design tools, design software as per needs and specifications. To apply acquired knowledge of the domain in investigating the software design, from design of experiments, analysis of data to provision of valid conclusions.
<b>PO4</b>	To possess the skills to use modern software and hardware tools to analyze problems. To possess the knowledge of ethical and legal principles and cyber regulations.
<b>PO5</b>	To possess ability for self-education and attitude for life-long learning in the broadest context of technological change. To possess the skill and acumen for innovative research and be aware of publishing their work in reputed journals.
<b>PO6</b>	To possess the ability to communicate scientific facts effectively in both verbal and written form to the society. To possess the ability to understand the impact of IT solutions in a global and societal context. To possess the skill to find out the right opportunity for entrepreneurship for the betterment of an individual and society at large.

**M.Sc. COMPUTER SCIENCE**  
**Programme Specific Outcomes**

<b>PSO1</b>	Implement the concept of theory and technology with classical and modern techniques for solving the complex problems in Computer Science.
<b>PSO2</b>	Be more curious about learning new and emerging technologies that adapt quickly to changes.
<b>PSO3</b>	Design, execute and evaluate computing projects in academia and industries using appropriate technologies.
<b>PSO4</b>	Know the contextual knowledge in computing science research and communicate effectively with stakeholders and the society at large to enhance the quality of life.
<b>PSO5</b>	Be honest in upholding the ethical principles and social responsibilities along with socio-economic innovations.



  
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**DEPARTMENT OF HUMAN RESOURCE MANAGEMENT**

**M.A. HRM**

**Programme Outcomes**

<b>PO1</b>	<b>Problem Solving Skill:</b> Apply knowledge of Management theories and Human Resource practices to solve business problems through research in global context.
<b>PO2</b>	<b>Decision Making Skill:</b> Foster analytical and critical thinking abilities for data- based decision making.
<b>PO3</b>	<b>Ethical Value:</b> Ability to incorporate quality, ethical and legal value-based perspectives to all organizational activities.
<b>PO4</b>	<b>Communication Skill:</b> Ability to develop communication, managerial and interpersonal skills.
<b>PO5</b>	<b>Individual and Team Leadership Skill:</b> Capability to lead themselves and the team to achieve organizational goals.
<b>PO6</b>	<b>Employability Skill:</b> Inculcate contemporary business practices to enhance employability skills in the competitive environment.
<b>PO7</b>	<b>Entrepreneurial Skill:</b> Equip with skills and competencies to become an entrepreneur.
<b>PO8</b>	<b>Contribution to Society:</b> Succeed in career endeavours and contribute significantly to society.

**M.A. HRM**

**Programme Specific Outcomes**

<b>PSO1</b>	<b>Placement:</b> To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, and beliefs and apply diverse frames of reference to decisions and actions.
<b>PSO2</b>	<b>Entrepreneur:</b> To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate start-ups and high potential organizations.
<b>PSO3</b>	<b>Research and Development:</b> Design and implement HR systems and practices grounded in research that complies with employment laws, leading the organization towards growth and development.
<b>PSO4</b>	<b>Contribution to Business World:</b> To produce employable, ethical and innovative professionals to sustain themselves in the dynamic business world.
<b>PSO5</b>	<b>Contribution to the Society:</b> To contribute to the development of the society by collaborating with stakeholders for mutual benefit.



  
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## **DEPARTMENT OF SOCIAL WORK**

### **MSW**

#### **Programme Outcomes**

<b>PO1</b>	The programme will make the students become highly capable and efficient social work professionals in all the fields of social work, such as Medical, Psychiatric, Child Welfare Guidance, Geriatric, Health, Correctional, Family, Youth, Labour Welfare and Rural development, etc.
<b>PO2</b>	The programme will train and enrich the students with high scientific skills and techniques to deal with social issues and their problems.
<b>PO3</b>	The concepts, methods and techniques of social work will train students to follow its principles and practice them in various fields, thus creating a better society.
<b>PO4</b>	The programme is designed to make the students become well aware of the social work professional code of ethics which is followed in social work settings.
<b>PO5</b>	It makes the students follow a systematic and scientific knowledge of social work philosophy and methods for becoming more professional in the various fields of social work.
<b>PO6</b>	The social work programme is designed to aid individuals, groups and communities to address individuals' coping problems, group development and betterment of communities in society.
<b>PO7</b>	The programme makes them more responsible for fulfilling humanitarian needs, solving psycho-social problems and adjusting mental problems, thereby making society more harmonious and unified.
<b>PO8</b>	It aids students in becoming a social change agent for creating a better and cordial social environment.
<b>PO9</b>	The Social Work programme motivates students to become responsible professional social workers and work for the betterment of the individual's psychological well-being, group development and community welfare.
<b>PO10</b>	The Social Work programme stimulates students to engage and be involved in deep research investigation into any particular social problem and make society a better place to live in by addressing it.



  
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## **MSW**

### **Programme Specific Outcomes**

<b>PSO1</b>	The Master of Social Work programme makes the students to become more knowledgeable and skillful in dealing with human behaviour.
<b>PSO2</b>	The outcome of the programme is to develop the skill of self-examination, critical thinking, analytical thinking, self-awareness, problem solving ability, constructive use of relationships and productive utilization of self.
<b>PSO3</b>	The programme helps the students to become professional, responsible, efficient, effective, practical, logical, and pragmatically experiential in dealing with individuals, groups and the community for effective implementation of social work philosophies and its values in society.
<b>PSO4</b>	The social work programme concentrates more on solving the individuals' psycho- social maladjustment problems, effectively motivating the groups to engage in group activity for the group's desires and needs, and using the community's resources skillfully for the community's welfare and development.
<b>PSO5</b>	The interest in research is instilled in the minds of social work students to create new theories, ideologies, values, principles and techniques for upcoming social work professionals to efficiently deal with and address social problems skillfully.



  
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**DEPARTMENT OF TAMIL**

**B. A. TAMIL**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
I YEAR - I SEMESTER			
AT21A	Ikkala Elakkiyam	After completing the course, the students will be able to	
		CO1	Learn the content of both traditional and modern poetry.
		CO2	Learn the social stages of expressive with the novels. Literature.
		CO3	Understand the elements of the short stories.
		CO4	Understand the nature of drama.
AT21B	Pura Porul Venba Malai	CO5	Learn the objectives and trends of travel literature.
		CO1	Learn the ancient Tamil warfare through Vetchi Padalam and Karantai Padalam.
		CO2	Gain knowledge of war ethics through Vanchi Padalam and Kanchi Padalam.
		CO3	Learn the war tactics of Nocchi Padalam and Uzhinai Padalam.
		CO4	Learn the art of war through Thumbai Padalam and Vagai Padalam.
AT31A	Thamizhaga Varalarum Panpadum	CO5	Understand the greatness of the Puram life of ancient Tamils in Paatan Padalam.
		CO1	Know the ruling system of Tamilnadu from Sangam to the Pallava Period.
		CO2	Understand the changes in Tamil society due to the result of religious influence.
		CO3	Understand the development of art and cultural of Tamilnadu.
		CO4	Learn the political and social system of Tamilnadu.
		CO5	Learn about the historical stages of changes in the government of Tamilnadu and the literary development in Tamilnadu.





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I YEAR - II SEMESTER			
		CO1	Know the principles of Tirukkural.
		CO2	Learn the Morals in Nalatiyar, Naanmanikadikai
AT22A	Ara Ilakkiyam		and Pazamozhi Naanooru.
		CO3	Understand the values of life through Thirikadugam, Inna Narpathu, Iniyavai Narpathu, Sirupanchamoolam.
		CO4	Learn ethics of life in Elathi, Acharakovai, Moothurai, Nanneri and Neethineri Vilakkam.
		CO5	Learn ethics through Aathichoodi, Kondrai Vendan, Vetri Verkai and Ulaga Neethi.
AT22B	Nambiyagaporul	CO1	Learn the grammar of Akattinaiyial.
		CO2	Understand the grammar of Kalavu life through Kalaviyal.
		CO3	Learn about the life of Sangath Tamils from Varaiviyal.
		CO4	Understand the grammar of post-marital life of from Karpiyal.
		CO5	Understand the contents of the Ozhepiyal.
AT32A	Tamizhilakiya Varalaru	CO1	Learn the division between the Dravidian language and Sangam literature.
		CO2	Learn the history of Didactic, Epic and Bhakti literatures.
		CO3	Learn the structure of epics and the aesthetic sense of religious literatures.
		CO4	Understand the development and history of minor literary genres, 19 <sup>th</sup> century and Islamic literatures.
		CO5	Understand the origin and development of Christian, Foreign literatures and Dramas.
II YEAR - III SEMESTER			
AT23A	Nannul Ezuthadhigaram	CO1	Understand the structure of a text through Payiraviyal.
		CO2	Learn the grammatical features of syllables.
		CO3	Understand the features of words through Pathaviyal.
		CO4	Know the functions of vowels by Uyir Etru Punarchi.





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		<b>CO5</b>	Understand the functions of consonants and other grammar elements.
<b>AT23B</b>	<b>Kappiyangal</b>	<b>CO1</b>	Learn the structure of epics through Irattai Kappiyangal.
		<b>CO2</b>	Understand the aesthetic nature of Epics.
		<b>CO3</b>	Know the literary values of Puranas.
		<b>CO4</b>	Understand the greatness of Tamil religious Epics.
		<b>CO5</b>	Know the content of modern Epics.
<b>AT33A</b>	<b>Nattupuraviyal</b>	<b>CO1</b>	Understand the origin and development of folklore.
		<b>CO2</b>	Learn the different kinds of folk songs.
		<b>CO3</b>	Learn the culture of Tamil people from their stories and narratives.
		<b>CO4</b>	Learn the social structure of people through proverbs and riddles.
		<b>CO5</b>	Evaluate the research methodology applied in folklore research.
<b>II YEAR - IV SEMESTER</b>			
<b>AT24A</b>	<b>Nannool Solathikaram</b>	<b>CO1</b>	Learn the types of nouns.
		<b>CO2</b>	Learn the types of verbs.
		<b>CO3</b>	Understand the grammar of Pothuviyal.
		<b>CO4</b>	Learn about the general grammar of Itaisol.
		<b>CO5</b>	Learn the contents of Urisol.
<b>AT24B</b>	<b>Bhakthi Ilakkiyangal</b>	<b>CO1</b>	Know the Medieval period Bhakti Literature like Saiva literature.
		<b>CO2</b>	Understand the methods of worship through Vaishnava literature.
		<b>CO3</b>	Learn the literary forms of medieval period literatures.
		<b>CO4</b>	Know the morals emphasized by Christian literature.
		<b>CO5</b>	Learn the concepts and features of Islamic literature.
<b>AT34A</b>	<b>Thagaval Thodarbiyal</b>	<b>CO1</b>	Learn the principles and theories of communication.
		<b>CO2</b>	Learn about communication devices.
		<b>CO3</b>	Understand the uses of Radio.
		<b>CO4</b>	Understand the current needs of television.



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		<b>CO5</b>	Know the merits and demerits of advertisements.
<b>III YEAR - V SEMESTER</b>			
<b>AT25A</b>	<b>Sittrilakkiangal</b>	<b>CO1</b>	Acquire knowledge of Kuravanji literature from Sittrilakkiangal.
		<b>CO2</b>	Learn the aesthetic features of Pallu and Ula literature.
		<b>CO3</b>	Acquire literary knowledge about the stages of Masculine and Feminine from Pillaitamil.
		<b>CO4</b>	Learn the content and elements of Bharani and Anthadi literature.
		<b>CO5</b>	Learn about the literary forms and contents of Duthu Literature.
<b>AT25B</b>	<b>Yaparungalakarigai</b>	<b>CO1</b>	Learn the concept of Ezhthu, Asai, and Seer from Yapu.
		<b>CO2</b>	Understand sentence formation through Assai, Seer, Thalai and Thodai.
		<b>CO3</b>	Learn the various poetical concepts in Seyyuliyal.
		<b>CO4</b>	Understand the kinds of poetry in Seyyuliyal.
		<b>CO5</b>	Develop the ability to create traditional poetry.
<b>AT25C</b>	<b>Dravida Mozhigalin Oppilakkanam</b>	<b>CO1</b>	Learn the introduction of Dravidian languages existed in Indian and beyond.
		<b>CO2</b>	Understand the greatness of the Dravidian language family.
		<b>CO3</b>	Learn the similarities of Dravidian languages in grammatical structures.
		<b>CO4</b>	Learn the verb formation of Dravidian languages.
		<b>CO5</b>	Understand the language structures and semantic structures of Dravidian languages.
<b>AT25D</b>	<b>Illakkiaya Thirnaivu</b>	<b>CO1</b>	Understand the origin, development and types of Tamil Literature.
		<b>CO2</b>	Understand the quality of a researcher, types of criticism and the art of poetry.
		<b>CO3</b>	Learn the elements of literature like emotion, imagination, concept and form.
		<b>CO4</b>	Learn the criticism of poetry.
		<b>CO5</b>	Understand the methods of criticizing novels, dramas and short stories.
		<b>CO1</b>	Learn the definition of the dictionary and theory of semantics.



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AT45A	Agaraadhiyiyal	CO2	Understand the salient features of the dictionary in grammatical text and the elements of pre-dictionary.
		CO3	Know the Lexical elements of grammar and pre-syllabic notes.
		CO4	Understand the history of Tamil dictionary in chronological order.
		CO5	Understand the different types and usage of Tamil dictionaries and learn about encyclopaedias in Tamil.
III YEAR - VI SEMESTER			
AT26A	Sanga Ilakkiyam	CO1	Understand the content of Natrinai and Kurunthogai.
		CO2	Learn the literary form of Ainkurunuru and Paripadal.
		CO3	Learn the social states of ancient Tamils through
			Kalithogai and Agananooru.
		CO4	Understand the Puram morals through Purananooru and Pathitru pathu.
		CO5	Understand the lifestyle and import and export trading of Tamils in Patinapaalai.
AT26B	Thandiyalangaram	CO1	Know the grammar of Ani from Thanmai Ani to Tivaka Ani.
		CO2	Learn the formation methods of Pinvarunilaiyani to Ottani.
		CO3	Understand the contents of Athisaya Ani to Tanmempatturai Ani.
		CO4	Understand the beauty of Pariyaya ani to Virota ani.
		CO5	Learn the concepts of Marupatu Pukhazhi Ani to Pavika Ani.
AT26C	Padaippuillakiyam Mozhipeyarpum	CO1	Learn about creative literature and learn to write poetry.
		CO2	Learn the elements of a short story and practice it to create.
		CO3	Understand the basics of translation.
		CO4	Learn to translate from English to Tamil and Tamil to English.



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		<b>CO5</b>	Learn to translate the official letters, literature and newspapers.
<b>AT46A</b>	<b>Thamizhar Azhagu Kalaigal</b>	<b>CO1</b>	Learn the types of aesthetics and systems of architecture.
		<b>CO2</b>	Learn the types and development of sculpture.
		<b>CO3</b>	Understand the antiquity and types of drama with dance and music.
		<b>CO4</b>	Learn the history of drama.
		<b>CO5</b>	Understand the excellence of the fine arts and the development of temple art.
<b>AT46B</b>	<b>Kanniniyum Innayamum</b>	<b>CO1</b>	Learn about the evolution of the computer.
		<b>CO2</b>	Understand the systems and components of the computer.
		<b>CO3</b>	Know the computer languages and types.
		<b>CO4</b>	Learn about usages of internet.
		<b>CO5</b>	Learn to create and use an email address and learn about the importance of an email id.



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**DEPARTMENT OF ENGLISH**

**B. A. ENGLISH**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	CO'S	COURSE OUTCOMES
I YEAR – I SEMESTER			
AG21A	British Literature- I		After doing this course, the students will be able to
		CO 1	-understand the impact of social and historical events of the 16th, 17th, and 18th centuries on English writers and their works.
		CO 2	-analyse the themes and styles in English poetry, prose and drama written in the Elizabethan and Jacobean Age.
		CO 3	-assess different works of the same author(s) as well as compare works of different authors of the same literary period.
		CO 4	-explore renowned poets of Britain and the poetic techniques used by them.
		CO 5	- analyze the Elizabethan drama and its techniques and the various themes dealt by the dramatist of the period.
AG21B	Shakespeare		After doing this course, the students will be able to
		CO 1	-recollect features of Elizabethan theatre along with Shakespeare's life and works.
		CO 2	- identify the generic diversity in Shakespearean plays and describe significant features of Shakespearean oeuvre.
		CO 3	- analyse prominent themes in Shakespearean plays appreciate Shakespearean language, literary elements, and conventions.
		CO 4	- synthesise acquired knowledge to critique plays and enact.
		CO 5	- know the political condition of England and their rule.



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			At the end of this course students will be able to:
		CO 1	- identify and define basic terms and concepts which are needed for advanced courses in British literature.
AG31A (Allied)	Background to English Literature -I	CO 2	- describe the distinct periods of British literature.
		CO 3	- write brief notes on seminal literary forms and devices.
		CO 4	- write brief essays on seminal writers and their period from Medieval Europe up to the Britain of the Elizabethan and Jacobean Age.
		CO 5	- write brief essays on the historical background of the same period.
I YEAR – II SEMESTER			
AG22A	British Literature- II		At the end of this course, students will be able to
		CO 1	- identify and define basic terms and concepts which are needed for advanced courses in British literature.
		CO 2	- write brief essays on the important works of mainstream writers from the Augustan and Romantic Age.
		CO 3	- describe the distinct features of British literature of the same period.
		CO 4	- analyze and interpret seminal poetry of the period with close reading.
		CO 5	- analyze the writing style and techniques used by the writers.
AG22B	Indian Writing in English		By the end of the course, students will be able to
		CO 1	- understand the evolution of Indian Writing in English.
		CO 2	- identify the influence of Classical Indian tradition and the impact of western colonisation on Indian English writers.
		CO 3	- analyse the Indian ethos found in the representative texts.
		CO 4	- evaluate Indian English texts from the postcolonial perspective.





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		<b>CO 5</b>	- understand the Gandhian principles during the freedom struggle.
<b>AG32A (Allied)</b>	<b>Background to English Literature -II</b>		At the end of this course students will be able to:
		<b>CO 1</b>	- identify and define basic terms and concepts which are needed for advanced courses in British literature.
		<b>CO 2</b>	- describe the distinct periods of British literature.
		<b>CO 3</b>	- write brief notes on literary forms.
		<b>CO 4</b>	- write brief essays on seminal writers from
			Britain of the Augustan and Romantic and Victorian Age.
		<b>CO 5</b>	- write brief essays on the historical background of the same period.
<b>II YEAR – III SEMESTER</b>			
<b>AG23A</b>	<b>British Literature- III</b>		At the end of this course students will be able to:
		<b>CO 1</b>	- identify and define basic terms and concepts which are needed for advanced courses in British literature.
		<b>CO 2</b>	- write brief essays describing the distinct features of the important works of mainstream writers from Victorian Age and Twentieth Century.
		<b>CO 3</b>	- analyze and interpret seminal poetry of the period with close reading.
		<b>CO 4</b>	- analyze the writing style and techniques used by the writers.
		<b>CO 5</b>	- analyze the Genres of Fiction.
<b>AG23B</b>	<b>Aspects of English Language-I</b>		After completing this course, the students will be able to
		<b>CO 1</b>	- show their understanding of language and its features.
		<b>CO 2</b>	- demonstrate their understanding of English grammar using the English language correctly.
		<b>CO 3</b>	- distinguish between correct and incorrect use of the language.
		<b>CO 4</b>	- use their English language correctly in real life experiences.
		<b>CO 5</b>	- understand the nuances of language usage
			At the end of this course students will be able to



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AG33A (Allied)	Background to English Literature -III	CO 1	- identify and define basic terms and concepts which are needed for advanced courses in British literature.
		CO 2	- describe the distinct periods of British literature.
		CO 3	- write brief notes on literary forms.
		CO 4	- write brief essays on seminal writers from Britain in the Twentieth century.
		CO 5	- write brief essays on the historical background of the same period.
II YEAR – IV SEMESTER			
	American Literature		After doing the course, students will be able to
		CO 1	- trace the origin and history of American Literature.
AG24A		CO 2	- explain the cultural, political, and stylistic protocols governed by early American literature to gain the concept of feminism.
		CO 3	- analyze the impact of Puritanism and the significance of Transcendentalism using the prescribed texts.
		CO 4	- assess thematic aspects of literary texts as a part of the cultural and historical movements.
		CO 5	- evaluate new forms of space, identity, and writing that transform the canonical English literary structures
AG24B	Aspects of English Language-II		After doing the course, students will be
		CO 1	- familiar with the use of English phonetics.
		CO 2	- familiar with the nuances of the English language better.
		CO 3	- able to use the English language with its aspects.
		CO 4	- able to pronounce consciously the words and sentences better.
		CO 5	- The students will have more knowledge on the word’s meaning and its associative.
AG34A	Background to European and		At the end of this course, students will be able to:
		CO 1	- identify and define basic terms and concepts which are needed for the advanced courses in European and American literature.
		CO 2	- write brief essays on the historical background of European and American Literatures.



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(Allied)	American Literature	CO 3	- understand the social, economic, political, and architecture of ancient Greek and Rome.
		CO 4	- describe the culture and the development of Christianity in western countries.
		CO 5	-understand the impact of World Wars on people and society.
III YEAR – V SEMESTER			
AG25A	American Literature -II		After doing the course, students will be able to
		CO 1	- evaluate new forms of space, identity, and writing that transformed canonical English literary structures.
		CO 2	- assess thematic aspects of literary texts as a part of the cultural and historical movements in America.
		CO 3	- students understand the background and origin of American Poetry.
		CO 4	- understand the historical background of the text more clearly.
		CO 5	- gain knowledge of some aspects of American English usage.
AG25B	World Classics in Translation		At the end of this course students will be able to:
		CO 1	- understand a few world classics.
		CO 2	- acquire historical and cultural knowledge of the past.
		CO 3	- develop critical thinking by being exposed to the original ideas and philosophies of writers of the world.
		CO 4	- write about the early literatures, writers, and their literary styles.
		CO 5	- acquire the knowledge of the past precisely Greek and Tamil Classics
AG25C	Aspects of English		After completing this course, students will be able to
		CO 1	- use English with a thorough understanding of the different ways in which English is used in India.
		CO 2	- comprehend and respond to American and British English.



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	<b>Language-III</b>	<b>CO 3</b>	- improve their pre-writing and post-writing skills.
		<b>CO 4</b>	- use their writing skills to produce good write - ups.
		<b>CO 5</b>	- communicate with ease through mail, blogs, and microblogs.
<b>AG25D</b>	<b>Introduction to Literary Criticism</b>		By the end of this course, the students will be able to
		<b>CO 1</b>	- remember the critical thinkers or philosophers and their seminal works.
		<b>CO 2</b>	- understand the significance of major critical theories.
		<b>CO 3</b>	- analyze the themes and structure of literary works.
		<b>CO 4</b>	- examine dominant ideologies in a literary work.
		<b>CO 5</b>	- evaluate a literary work using a theoretical framework.
			By the end of this course, the students will be able to
		<b>CO 1</b>	- familiar with ELT theories on second language acquisition.
<b>AG45B</b>	<b>English Language Teaching</b>	<b>CO 2</b>	- understand the factors governing language acquisition.
		<b>CO 3</b>	- acquire knowledge about the history of ELT in India.
		<b>CO 4</b>	- become acquainted with teaching – learning language skills.
		<b>CO 5</b>	- learn how to teach English literary genres
<b>III YEAR- VI SEMESTER</b>			
<b>AG26A</b>	<b>Post-Colonial Literature</b>		On completing the course, the students will be able to
		<b>CO 1</b>	- define the problems and consequences of colonization.
		<b>CO 2</b>	- identify key authors, and literary forms in postcolonial literature.
		<b>CO 3</b>	- understand how ancestry, race, class, gender, history, and identity are presented in literary texts.



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		<b>CO 4</b>	- examine the use of the English language by the colonized to express their experiences and the emergence of 'Englishes'.
		<b>CO 5</b>	- think critically about the context of exploration and colonialism in relation to postcolonial societies.
<b>AG26B</b>	<b>Contemporary Literature</b>		At the end of the course, the students will be able to
		<b>CO 1</b>	- examine the representation of contemporary trends, thematic concerns and innovations in genres.
		<b>CO 2</b>	- identify key concepts like, multiculturalism, globalization, acculturation, displacement, alienation, and identity crisis in contemporary texts post World War II.
		<b>CO 3</b>	- categorize major streams of thought, literary styles and issues that dominate the world.
		<b>CO 4</b>	- analyze the inter-connectedness of human experiences with a developed understanding of their social, cultural, and aesthetic contexts.
		<b>CO 5</b>	- develop an understanding of contemporary social issues.
			By the end of the course, the students will be able to
		<b>CO 1</b>	- remember the background of Indian literary tradition and the significance of Indian aesthetics.
<b>AG26C</b>	<b>Indian Literatures in English</b>	<b>CO 2</b>	- understand the characteristic features of Regional Indian Literature in translation.
		<b>CO 3</b>	- develop a basic perception of the difficulties, possibilities, and challenges in translating a text.
		<b>CO 4</b>	- analyse the regional elements in the prescribed texts.
		<b>CO 5</b>	- evaluate the skills involved in translation of regional Indian literature into English.
			After completing this course, the students will be able to
		<b>CO 1</b>	- understand the impact of patriarchy on women and become sensitized to the need for gender equality.



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<b>AG46B</b>	<b>Women's Writing</b>	<b>CO 2</b>	- distinguish women's writing as one shaped by their gender experiences.
		<b>CO 3</b>	- identify genres and narrative strategies employed by different women writers and the language used.
		<b>CO 4</b>	- gain an understanding of the themes of suppression, oppression and marginalization expressed by women writers across the world and gauge its effect in changing the social construct.
		<b>CO 5</b>	- analyse literary texts through the perspective of gender.
<b>AG46F</b>	<b>Film and Literature</b>		At the end of the course, the students will be able to
		<b>CO 1</b>	- define what cinema is and its genres.
		<b>CO 2</b>	- identify the aspects of translation from text to screen-visual representation.
		<b>CO 3</b>	- demonstrate a knowledge of film narrative and techniques.
		<b>CO 4</b>	- explain the terminologies for analyzing images, sound and costume in narrative film.
		<b>CO 5</b>	- synthesize the themes and issues portrayed in both forms.
		<b>CO 6</b>	- critically review a film.





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**DEPARTMENT OF BIOCHEMISTRY**

**B. Sc. BIOCHEMISTRY**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
I YEAR - I SEMESTER			
SB21A	Nutritional Biochemistry		After completing the course, the students will
		CO1	Acquire awareness about the role of nutrients in maintaining proper health.
		CO2	Understand the nutritional significance of carbohydrates, lipids and proteins.
		CO3	Understand the importance of a balanced diet.
		CO4	Able to correlate the effect of nutrients in the biochemical process.
		CO5	Acquire awareness of human rights.
SD3AA	Allied – Chemistry I	CO1	Know the fundamentals of nuclear chemistry.
		CO2	Understand the industrial application of fuels, fertilizers and polymers.
		CO3	Understand the basic concepts of Organic Chemistry.
		CO4	Comprehend the various laws of thermodynamics.
		CO5	Understand the basics of photochemistry.
SD3A1	Allied Chemistry Practical	CO1	Understand the fundamentals of the analysis of organic and inorganic compounds.
		CO2	Be able to qualitatively analyze the organic compounds.
		CO3	Be able to analyze the concentration of various compounds titrimetrically.



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**I YEAR - II SEMESTER**

<b>SB22A</b>	<b>Cell Biology</b>	<b>CO1</b>	Understand the structure and basic components of prokaryotic and eukaryotic cells.
		<b>CO2</b>	Be able to comprehend different organelles and their functions.
		<b>CO3</b>	Relate the structure and functions of biomembrane and cytoskeletal elements to membrane transport.
		<b>CO4</b>	Acquire insight into the process underlying mitotic and meiotic cell divisions.
		<b>CO5</b>	Understand the nature of cancer and the principles underlying anti-cancer therapies.
<b>SD3AB</b>	<b>Allied – Chemistry II</b>	<b>CO1</b>	Understand the fundamentals of coordination chemistry and its applications.
		<b>CO2</b>	Gain knowledge about structural aspects of biologically important compounds.
		<b>CO3</b>	Be introduced to the applications of the phase rule and freezing mixtures.
		<b>CO4</b>	Acquire knowledge about the basics of electrochemistry.
		<b>CO5</b>	Able to describe the basics of analytical chemistry.
<b>SB221</b>	<b>Major Practical I</b>	<b>CO1</b>	Understand the importance of buffers and their preparation.
		<b>CO2</b>	Be able to analyse the concentration of various compounds titrimetrically.
		<b>CO3</b>	Prepare biochemical compounds like starch and proteins from natural resources.
		<b>CO4</b>	Gain insight into the structure of cells and the process of cell division.
		<b>CO1</b>	Understand the fundamentals of analysis of organic and inorganic compounds.



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SD3A1	Allied Chemistry Practical	CO2	Be able to qualitatively analyze the organic compounds.
		CO3	Be able to analyse the concentration of various compounds titrimetrically.
II YEAR - III SEMESTER			
		CO1	Understand the chemistry of mono and disaccharides and their functions in living systems.
SB23A	Biomolecules	CO2	Elucidate the structural conformation of different types of polysaccharides.
		CO3	Gain insight into the reactivity of amino acids and the nutritional importance of proteins.
		CO4	Apply the relationship between the structure and functions of peptides and proteins in the biological context.
		CO5	Elucidate the various levels of organization of proteins and their biological importance.
SW3AA	Allied – Zoology I	CO1	Understand the general classification of invertebrates and chordates.
		CO2	Depict the structural diversity of various animal phyla and their significance.
		CO3	Acquire knowledge about the structural diversity of Amphioxus and Shark and their significance.
		CO4	Understand the structural diversity of Frog and Calotes and their significance.
		CO5	Acquire knowledge of the structural diversity of Pigeon and Rabbit and their significance.
II YEAR - IV SEMESTER			
SB24A	Biomolecules &	CO1	Gain insight into the classes of lipids, characterization of fats and their biological roles.
		CO2	Comprehend the structure and biological role of sterols and phospholipids.
		CO3	Be able to establish the role of purine and pyrimidine bases in nucleic acid structure.



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	<b>Biochemical Techniques</b>	<b>CO4</b>	Acquire knowledge of the centrifugation types and their applications.
		<b>CO5</b>	Be able to describe and discuss the principle, instrumentation and applications of various types of spectroscopic techniques in analyzing biological samples.
<b>SW3AB</b>	<b>Allied – Zoology II</b>	<b>CO1</b>	Understand the basic concept of inheritance, structure of nucleic acids, molecular structure of animal cell and functions of important cell organelles.
		<b>CO2</b>	Be Able to comprehend the concept of developmental stages in animals.
		<b>CO3</b>	Gain knowledge about human organ systems and their physiological role.
		<b>CO4</b>	Acquire knowledge about the physicochemical factors, biogeochemical cycles and sewage water treatment.
		<b>CO5</b>	Understand the theories of evolution Lamarckism, Neo-Lamarckism, Darwinism and Neo-Darwinism.
<b>SB241</b>	<b>Major Practical II</b>	<b>CO1</b>	Be able to analyze, interpret and identify carbohydrates and amino acids qualitatively.
		<b>CO2</b>	Be able to analyze the quality of lipids (oil).
		<b>CO3</b>	Students will imbibe the usage of paper and thin layer chromatography in biomolecular separation and purification.
		<b>CO4</b>	Be able to analyse and estimate biomolecules in a sample.
<b>SW3A1</b>	<b>Allied Zoology Practical</b>	<b>CO1</b>	Be able to dissect invertebrate specimen and understand its anatomical features.
		<b>CO2</b>	Be able to mount an invertebrate and vertebrate specimen and understand its anatomical features.
		<b>CO3</b>	Be able to gain knowledge on the morphological structures of various animal phyla through specimen studies.
<b>III YEAR - V SEMESTER</b>			



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<b>SB25A</b>	<b>Enzymes</b>	<b>CO1</b>	Understand the basic concepts, classification and specificity of enzymes.
		<b>CO2</b>	Attain knowledge about enzyme kinetics.
		<b>CO3</b>	Gain insight on enzyme inhibition, mechanism of action and co-enzymes.
		<b>CO4</b>	Understand the methods involved in isolation, purification and characterization of enzymes.
		<b>CO5</b>	Be able to discuss about the process of immobilization and applications of enzymes.
		<b>CO1</b>	Understand the concepts of thermodynamics and the mechanism of energy transfer in ETC.
<b>SB25B</b>	<b>Metabolism</b>	<b>CO2</b>	Gain knowledge on the metabolic fate of the dietary carbohydrates.
		<b>CO3</b>	Acquire knowledge on the metabolic fate of the dietary lipids.
		<b>CO4</b>	Understand the metabolic fate of the dietary proteins.
		<b>CO5</b>	Gain in-depth knowledge on the metabolism of nucleotides and the interrelation among the carbohydrates, fat and protein metabolism.
<b>SB25C</b>	<b>Analytical Biochemistry</b>	<b>CO1</b>	Understanding the concepts of acids, bases, buffers, various units used. The students also will gain in depth knowledge about the techniques, types, operation and applications of oxygen electrode, microscopy.
		<b>CO2</b>	The students will gain in-depth knowledge about the techniques, types, operation and applications of chromatographic techniques.
		<b>CO3</b>	Attain knowledge on operation and applications of different types of electrophoretic techniques.
		<b>CO4</b>	Acquire understanding on radioisotopes & their application in diagnostic and other industries.



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		<b>CO5</b>	Develop a basic understanding on the bioinformatic tools, Nanotechnology and its applications in various fields.
<b>SB45A</b>	<b>Human Physiology</b>	<b>CO1</b>	Understand the structure, function and different organs of Digestive and urinary system.
		<b>CO2</b>	Attain knowledge on composition of blood and its function, blood clotting mechanism. blood pressure and cardiovascular diseases.
		<b>CO3</b>	Be able to understand the muscular and nervous system and the role of neurotransmitters in physiology.
		<b>CO4</b>	Acquire in depth knowledge about respiratory system and lung disorders.
		<b>CO5</b>	Develop knowledge on the reproductive system and their disorders and also introduce the organization of endocrine systems.
<b>III YEAR - VI SEMESTER</b>			
<b>SB26A</b>	<b>Clinical Biochemistry</b>	<b>CO1</b>	Be able to describe the causes, types, clinical manifestations and treatment of Diabetes mellitus and various other disorders of carbohydrate metabolism.
		<b>CO2</b>	Ability to enumerate the pathophysiological processes underlying jaundice and the clinical applications of enzymes in diagnosis.
		<b>CO3</b>	Be able to assess the various parameters related to kidney function.
		<b>CO4</b>	Get a holistic understanding regarding the disorders of lipid metabolism and amino acid metabolism.
		<b>CO5</b>	Acquire knowledge about the basics and applications of diagnostic tools.





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<b>SB26B</b>	<b>Molecular Biology</b>	<b>CO1</b>	Gain insight on the Central Dogma of molecular Biology & the organization of genes in prokaryotes and eukaryotes.
		<b>CO2</b>	Be able to discuss about the molecular basis of DNA synthesis, know the importance of the process, and the role of inhibitors of DNA as drugs.
		<b>CO3</b>	Describe the process of RNA synthesis, post transcriptional modifications and apply the same to understand the role of antibiotics.
		<b>CO4</b>	Develop understanding on the deciphering of genetic code and protein synthesis.
		<b>CO5</b>	Comprehend the mechanism of DNA mutation, repair system and the molecular process in disease diagnosis.
<b>SB46A</b>	<b>Immunology</b>	<b>CO1</b>	Cognizance the different types of immunity, lymphoid organs and the cellular basis of immunity.
		<b>CO2</b>	Be able to understand the types of antigens, antibodies and activation of complements.
		<b>CO3</b>	Comprehend the mechanisms underlying in-vitro reactions between antigen and antibody and relating their application in clinical diagnosis.
		<b>CO4</b>	Apprehend the enormous scope of different types of vaccines.
		<b>CO5</b>	Acquire knowledge on autoimmunity, hyper sensitivity and transplantation immunology.
		<b>CO1</b>	Acquire basic knowledge of recombinant DNA technology, DNA manipulation in prokaryotes and eukaryotes and the role of restriction enzymes.
		<b>CO2</b>	Get an in-depth knowledge on the use of cloning vectors, creation of genomic and DNA libraries and their applications.



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<b>SB46B</b>	<b>Biotechnology</b>	<b>CO3</b>	Perceive the methods of transgenic plants production using recombinant DNA technology and the applications of engineered plant products.
		<b>CO4</b>	Understand the basics of tissue culture, transgenesis and stem cell technology.
		<b>CO5</b>	Understand the risks and safety aspects and patenting in biotechnology.
<b>SB261</b>	<b>Major Practical III</b>	<b>CO1</b>	Understand the clinical importance of normal and abnormal constituents in urine sample.
		<b>CO2</b>	Be able to analyse the concentration of important biomolecules in biological samples (Blood/Urine).
		<b>CO3</b>	Be to determine the activity of various enzymes in serum and interpret their clinical significance.
		<b>CO4</b>	Gain insight in various hematological studies and their importance in diagnosis.



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**DEPARTMENT OF COMPUTER SCIENCE**

**B. Sc. COMPUTER SCIENCE**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR - I SEMESTER</b>			
<b>SE21A</b>	<b>Problem Solving using Python</b>	<b>CO1</b>	Understand the principles of Python and acquire skills in programming in python.
		<b>CO2</b>	Develop the emerging applications of relevant fields using Python.
		<b>CO3</b>	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.
		<b>CO4</b>	Be able to develop simple turtle graphics programs in Python.
		<b>CO5</b>	Understand the concepts of dictionary sets and object-oriented programming using Python.
<b>SE211</b>	<b>Practical Problem Solving using Python Lab</b>	<b>CO1</b>	Understand the numeric or real life application problems and solve them.
		<b>CO2</b>	Apply a solution clearly and accurately in a program using Python.
		<b>CO3</b>	Apply the best features available in Python to solve the situational problems.
<b>SM3AA</b>	<b>Allied Mathematics – I</b>	<b>CO1</b>	Gain knowledge about basic concepts of algebra and solving equations by using numerical methods.
		<b>CO2</b>	Be able to calculate the Eigen values, Eigen vectors and the applications of Cayley Hamilton theorem.
		<b>CO3</b>	Transform the equation through increasing and decreasing the roots and developing the skill necessary to solve polynomial equations.



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		<b>CO4</b>	Write the expansions of trigonometric functions in terms of their powers and multiples and know about hyperbolic functions.
		<b>CO5</b>	Be able to know the applications of derivatives in finding maxima, minima and radius of curvature.
<b>I YEAR - II SEMESTER</b>			
<b>SE22A</b>	<b>Computer Organization</b>	<b>CO1</b>	Describe the major components of a computer system and state their function.
		<b>CO2</b>	Understand the basic organization of computers and the working of each component and CPU.
		<b>CO3</b>	Describe the microstructure of a processor.
		<b>CO4</b>	Demonstrate the ability to program a microprocessor in an assembly language.
		<b>CO5</b>	Classify and describe the operation of DMA and peripheral Interfaces.
<b>SE221</b>	<b>Practical - Computer Organization Lab</b>	<b>CO1</b>	Implement the arithmetic operations in assembly language programming.
		<b>CO2</b>	Understand the programming logic of 8085 in various aspects.
<b>SM3AE</b>	<b>Allied Mathematics – II</b>	<b>CO1</b>	Gain knowledge about basic concepts of integral calculus.
		<b>CO2</b>	Be able to solve second order non-homogeneous differential equations with constant coefficients of some particular types and understanding about partial differential equations.
		<b>CO3</b>	Gain knowledge about Laplace transforms of standard functions and its applications in solving differential equations.
		<b>CO4</b>	Gain knowledge about the basic concept of vector differentiation.
		<b>CO5</b>	Gain knowledge about the basic concept of vector integration.
<b>II YEAR - III SEMESTER</b>			
		<b>CO1</b>	Understanding the basic concepts of Java.
		<b>CO2</b>	Creating simple Java programs.
		<b>CO3</b>	Students will be able to develop Java Standalone applications and Applets.



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SE23A	Java and Data Structures	CO4	Gained knowledge to choose the appropriate data structures like Stack, Queue and Linked list for a given problem.
		CO5	Analyse about Binary tree, Binary search tree and Dijkstra’s Algorithm.
SE231	Practical Data Structures using Java Lab	CO1	Write function to implement linear and non-linear data structure operations.
		CO2	Suggest appropriate linear & non-linear data structure operations for solving a given problem.
SP3AA	Allied Statistics – I	CO1	Know the uses of statistics in society.
		CO2	Know to organize, manage and present data.
		CO3	Analyse the statistical data graphically using
			frequency distribution and cumulative frequency distribution.
		CO4	Analyse statistical data using measures of central tendency, dispersion and location.
		CO5	Understand the correlation between continuous variables and association between categorical variables.
II YEAR - IV SEMESTER			
SE24A	Web Technology	CO1	Understand the principles of PHP.
		CO2	Learn PHP syntax and control flow statements.
		CO3	Understand the concepts of arrays in PHP scripting language for the development of Internet websites.
		CO4	Understand the functions and classes.
		CO5	Understand the basic functions of MySQL database program and XML concepts.
SE241	Practical Web Technology Lab	CO1	Obtain knowledge and develop application programs using Python.
		CO2	Create dynamic Web applications such as content management, user registration, and e-commerce using PHP and to understand the ability to post and publish a PHP website.
		CO3	Develop a MySQL database and establish connectivity using MySQL.
		CO1	Be able to understand the basic concept of probability.



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SP3AB	Allied Statistics – II	CO2	Identify the characteristics of different discrete distributions and the statistical situation to which the distributions can be applied.
		CO3	Identify the characteristics of different continuous distributions and the statistical situation to which the distributions can be applied.
		CO4	Comprehend the sampling distributions.
		CO5	Understanding how to apply statistical tests to get information from data.
SP3A1	Allied Practical Statistics – I & II	CO1	Analyse the statistical data graphically using frequency distribution and cumulative frequency distribution.
		CO2	Analyse statistical data using measures of central tendency and measures of dispersion.
		CO3	Understand correlation between continuous variables and association between categorical variables.
		CO4	Evaluate the fitting of the Binomial, Poisson and normal distributions.
		CO5	Analyse the test of significance for mean, proportion, variance based on normal, T -Test, F-Test, Chi-square test and ANOVA.
		III YEAR - V SEMESTER	
SE25A	Computer Network	CO1	Discuss the fundamentals of computer hardware, software, different network models with examples and guided transmission media.
		CO2	Analyse wireless transmission, components of telephone systems and implement error-free transmission of data in DLL.
		CO3	Understand various protocols in the Data Link layer.
		CO4	Describe the key networking protocols and various algorithms.
		CO5	Analyse the design issues of transport layers, various protocols and network security.





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SE25B	Operating System	CO1	Understand the structure and functions of Operating System and compare the performance of Scheduling Algorithms.
		CO2	Understand the concept of Process Synchronization and Deadlocks.
		CO3	Understand the Memory Management policies.
		CO4	Analyse various Page Replacement Algorithms and understand the File concepts.
		CO5	Understand the concepts of I/O systems, System Protection and System Security.
SE25C	Relational Database Management System	CO1	Describe basic concepts of database system.
		CO2	Design a data model and schemas in RDBMS.
		CO3	Analyse functional dependencies for designing robust database.
		CO4	Competent in use of SQL.
		CO5	Know how to use the simple PL/SQL procedures.
SE45C	Network Security	CO1	Understand OSI security architecture.
		CO2	Acquire fundamental knowledge of the concepts of finite fields and number theory.
		CO3	Understand various block cipher and stream cipher models.
		CO4	Know the principles of symmetric & public key cryptosystems.
		CO5	Compare various Cryptographic Techniques and Design Secure applications.
SE251	Practical - OS Lab	CO1	Understand the process management policies and scheduling process by CPU.
		CO2	Analyse the memory management and its allocation policies.
		CO3	Evaluate the requirement for process synchronization.
SE252	Practical - PL /SQL Lab	CO1	Implement the DDL , DML Commands and Constraints
		CO2	Create, Update and query on the database
		CO3	Design and implement a simple project with Front End and Back End.
III YEAR - VI SEMESTER			
		CO1	Know about various software life cycle models.



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<b>SE26A</b>	<b>Software Engineering</b>	<b>CO2</b>	Be able to specify the software requirements and specifications.
		<b>CO3</b>	Understand the software design concepts.
		<b>CO4</b>	Design the software using UML tools.
		<b>CO5</b>	Write test cases using different testing techniques.
<b>SE26B</b>	<b>Introduction to Data Science</b>	<b>CO1</b>	Understand the basic concepts of data science.
		<b>CO2</b>	Know the Data Science process.
		<b>CO3</b>	Compare the various machine learning algorithms.
		<b>CO4</b>	Describe the HADOOP framework.
		<b>CO5</b>	Be able to use tools for basic analysis and communication.
<b>SE26C</b>	<b>Introduction to Cloud Computing</b>	<b>CO1</b>	Be able to describe the types and workings of cloud.
		<b>CO2</b>	Gain knowledge about cloud computing architecture and virtualization.
		<b>CO3</b>	Know how to apply the levels of services of Cloud.
		<b>CO4</b>	Understand the security aspects of cloud.
		<b>CO5</b>	Compare among various cloud services for implementing applications.
<b>SE45D</b>	<b>Mobile Computing</b>	<b>CO1</b>	Explain the basics of a mobile telecommunication system.
		<b>CO2</b>	Explain the functionality of the Transport layer and TCP/IP.
		<b>CO3</b>	Understand mobile telecommunication systems – GSM, GPRS & UMTS.
		<b>CO4</b>	Use simulator tools and design Ad hoc networks and develop a mobile application.
		<b>CO5</b>	Be able to know mobile platforms and applications and software development kits.
<b>SE261</b>	<b>Case Tools and Testing Tools Lab</b>	<b>CO1</b>	Be able to analyse and design the problem at hand.
		<b>CO2</b>	Be able to use UML tools for designing software.
		<b>CO3</b>	Be able to implement the designs.
		<b>CO4</b>	Be able to test the correctness and soundness of their software through testing tools.
		<b>CO5</b>	Learn to maintain any project with various case tools.



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<b>SE261</b>	<b>Mini Project</b>	<b>CO1</b>	Gain a thorough knowledge of the problem he/she has selected and the language / software he/she is using.
		<b>CO2</b>	Plan, schedule, monitor and control their own work.
		<b>CO3</b>	Defend their ideas in discussions and presentations.
		<b>CO4</b>	Apply tools and techniques from taught courses.
		<b>CO5</b>	Communicate their findings through a written report.



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**DEPARTMENT OF MATHEMATICS**

**B. Sc. MATHEMATICS**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>CO'S</b>	<b>COURSE OUTCOME</b>
<b>I YEAR I SEMESTER</b>			
<b>SM21A</b>	<b>Algebra</b>	<b>CO1</b>	Learn the relation between the roots and coefficients.
		<b>CO2</b>	Acquire knowledge about finding the real root of an equation using Newton's method and Horner's method.
		<b>CO3</b>	Learn to find the sum of the infinite series.
		<b>CO4</b>	Learn basic ideas on Matrices.
		<b>CO5</b>	Acquire knowledge about congruences, prime numbers and divisors.
<b>SM21B</b>	<b>Differential Calculus</b>	<b>CO1</b>	Learn to find higher order derivatives and apply the Leibnitz rule to solve problems related to such derivatives.
		<b>CO2</b>	Learn to find maxima, minima and critical points of functions with two variables and apply lagrange's method for functions with 3 variables.
		<b>CO3</b>	Know to find the angle between the radius vector and tangent, derive pedal equations.
		<b>CO4</b>	Acquire knowledge to trace standard curves in Cartesian coordinates and polar coordinates.
		<b>CO5</b>	Know to construct equations of asymptotes for algebraic curves and apply them in relevant fields.
<b>SM3AB</b>	<b>Calculus of Finite Differences &amp;</b>	<b>CO1</b>	Know how to find the roots of algebraic and transcendental equations.
		<b>CO2</b>	Understand numerical techniques to find the solution of a system of linear equations.



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	<b>Numerical Analysis I</b>	<b>CO3</b>	Learn the difference between operators like forward, backward and shift operators.
		<b>CO4</b>	Learn about interpolation for equal intervals.
		<b>CO5</b>	Learn about interpolation with unequal intervals.
<b>I YEAR - II SEMESTER</b>			
<b>SM22A</b>	<b>Trigonometry</b>	<b>CO1</b>	Know to expand $\sin^n \theta$ , $\cos^n \theta$ and $\tan^n \theta$ in multiples of $\theta$ by using Binomial theorem.
		<b>CO2</b>	Learn to expand $\sin n\theta$ , $\cos n\theta$ , Express $\sin n\theta$ , $\cos n\theta$ in multiples of $\theta$ and Express $\sin \theta$ , $\cos \theta$ and $\tan \theta$ in terms of $\theta$ by using Demoivers theorem.
		<b>CO3</b>	Learn hyperbolic functions in terms of exponential functions and obtain hyperbolic identities. To Manipulate expressions involving hyperbolic functions and Classify relation between circular and hyperbolic functions.
		<b>CO4</b>	Know inverse trigonometric functions in terms of logarithmic functions. To differentiate hyperbolic and inverse – hyperbolic trigonometric functions. To separate the real and imaginary parts of trigonometric functions of complex variables. Recognize the concept of logarithmic of complex numbers.
		<b>CO5</b>	Manipulate any form of summation of series such as binomial, logarithmic, geometric and Gregory's series.
<b>SM22B</b>	<b>Integral Calculus and Vector Analysis</b>	<b>CO1</b>	Learn the Integral techniques.
		<b>CO2</b>	Acquire knowledge about double and triple integrals.
		<b>CO3</b>	Learn about beta and gamma functions.
		<b>CO4</b>	Learn about vector analysis.
		<b>CO5</b>	Acquire knowledge to solve problems in line, surface and volume integrals.
		<b>CO1</b>	Learn the Numerical Differentiation.



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SM3AF	Calculus of Finite Differences & Numerical Analysis II	CO2	Learn the Numerical Integration.
		CO3	Understand the concept of Difference Equations.
		CO4	Learn the Numerical Solution of Ordinary Differential Equations.
		CO5	Learn the various methods to solve Ordinary Differential Equations.
II YEAR - III SEMESTER			
SM23A	Analytical Geometry	CO1	Solve the problems using the equations of chord, diameter of sphere and conjugate diameter of hyperbola.
		CO2	Evaluate the equation of asymptotes of hyperbola and co- normal points
		CO3	Understand the equation of the system of planes and the length of perpendicular to the plane.
		CO4	Determine the equation of lines - symmetrical and non- symmetrical form and the shortest distance between two lines.
		CO5	Determine the equation of a sphere and the equation of the circle
SM23B	Differential Equations	CO1	Know about the method of solving homogeneous and non- homogeneous equations and also the exactness of the equa- tion.
		CO2	Acquire knowledge of the equations of the first order but not of a higher degree and also the linear equations with constant coefficients.
		CO3	Understand the concept of the linear equation of the second order and the complete solution in terms of known integrals.
		CO4	Know about the method of solving partial differential equa- tion and to solve the Lagrange’s linear equation $Pp+Qq=R$





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		<b>CO5</b>	Learn about the special methods and to know about Char-pit's method.
<b>SM3AC</b>	<b>Mathematical Statistics-I</b>	<b>CO1</b>	Know about the basic concepts of Probability and its theorems, Baye's theorem
		<b>CO2</b>	Acquire knowledge about the discrete and continuous random variables.
		<b>CO3</b>	Learn about the characteristics functions of Chebychev's theorem
		<b>CO4</b>	Know about the concept of Correlation, Regression.
		<b>CO5</b>	Know about the standard distributions like binomial, Poisson, Normal, Uniform, Geometric etc.
<b>II YEAR - IV SEMESTER</b>			
		<b>CO1</b>	Acquire knowledge about applying the Laplace transform in solving ordinary differential equations with constant coefficients.
<b>SM24A</b>	<b>Transform Techniques</b>	<b>CO2</b>	Know about the method of solving inverse Laplace transforms. <span style="float: right;">L</span>
		<b>CO3</b>	Understand the concept of Fourier series.
		<b>CO4</b>	Know about the concept of Fourier transforms.
		<b>CO5</b>	Learn about Z-transforms and its properties.
<b>SM24B</b>	<b>Statics</b>	<b>CO1</b>	Describe the concept of force, Newton's laws of motion.
		<b>CO2</b>	Describe the concept of the moment of a force.
		<b>CO3</b>	Demonstrate the concept of equilibrium of a rigid body under three coplanar forces.
		<b>CO4</b>	Construct the various methods of finding the centre of mass of a particle.
		<b>CO5</b>	Analyze and evaluate equilibrium of a uniform homogeneous string.
		<b>CO1</b>	Understand the basic concept of statistical analysis.



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SM3AG	Mathematical Statistics-II	CO2	Identify the characteristics of estimation to which the distributions can be applied.
		CO3	Understand Sampling methods, tests of significance and testing of hypothesis.
		CO4	Understand the concepts of ANOVA techniques.
		CO5	Understand how to apply the test of hypothesis, power of the test, statistical tests to get information from data
SM3A1	Mathematical Statistics I & II -Practical	CO1	Understand the concepts in diagrammatic and graphical representation of data and frequency distribution.
		CO2	Calculate the measures of dispersion, skewness and kurtosis.
		CO3	Evaluate the fitting of Binomial, Poisson and Normal distributions and test the goodness of fit.
		CO4	Compute the correlation and regression lines for raw and grouped data.
		CO5	Analyse the test of significance for mean, proportion, variance based on normal, t, chi-square statistics.
III YEAR - V SEMESTER			
SM25A	Algebraic Structures I	CO1	Know about the groups, subgroups, cyclic groups and their properties
		CO2	Acquire knowledge about normal subgroups, quotient groups and homomorphism of groups.
		CO3	Learn about permutation group and alternating group
		CO4	Know about rings, homomorphism of rings and ideals
		CO5	Acquire knowledge of the integral domain and Euclidean ring
SM25B	Real Analysis I	CO1	Know about the sets and functions and to solve problems related to them.
		CO2	Understand the concepts of sequences, subsequences and their types.
		CO3	Perform operations on convergent, divergent and Cauchy sequences.



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		<b>CO4</b>	Familiarize with series of real numbers and to analyse and evaluate the convergence and divergence of a series.
		<b>CO5</b>	Acquire knowledge about metric spaces and to find the limits of functions in metric spaces.
<b>SM25C</b>	<b>Dynamics</b>	<b>CO1</b>	Understand the basic concepts of velocity, acceleration and motion of particles in all planes.
		<b>CO2</b>	Acquire adequate knowledge on work, energy and simple harmonic motion.
		<b>CO3</b>	Understand the concept of forces and the impact of the particles.
		<b>CO4</b>	Learn the derivations and solve the problems of circular motion, conical pendulum and central orbit.
		<b>CO5</b>	Understand the concepts of Parallel axes and Perpendicular axes theorem.
<b>SM25D</b>	<b>Discrete Mathematics</b>	<b>CO1</b>	Understand Sets, Integers and Mathematical Induction.
		<b>CO2</b>	Apply tools and ideas in Mathematics for solving applied problems.
		<b>CO3</b>	Construct a switching circuit and logic circuit.
		<b>CO4</b>	Formulate problems and solve the recurrence relation.
		<b>CO5</b>	Understand Propositional logic, Quantifiers, Connectives and Predicate logic.
<b>SM45D</b>	<b>Numerical Methods</b>	<b>CO1</b>	Learn the Numerical techniques
		<b>CO2</b>	Acquire knowledge of Numerical Differentiation and Numerical Integration
		<b>CO3</b>	Learn various methods for solving first order equations
		<b>CO4</b>	Learn Finite Difference Method
		<b>CO5</b>	Acquire knowledge to solve Partial Differential Equations
<b>III YEAR - VI SEMESTER</b>			
		<b>CO1</b>	Acquire knowledge about vector space



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<b>SM26A</b>	<b>Algebraic Structures II</b>	<b>CO2</b>	Familiar in dual space and second dual space
		<b>CO3</b>	Gain knowledge about inner product space
		<b>CO4</b>	Understand about linear transformation, range, rank, characteristic root and characteristic vector of linear transformation.
		<b>CO5</b>	Find the matrix of a linear transformation
<b>SM26B</b>	<b>Real Analysis II</b>	<b>CO1</b>	Know about the connectedness, completeness and compactness of metric space.
		<b>CO2</b>	Acquire knowledge of bounded sets, totally bounded sets and continuous functions on metric spaces.
		<b>CO3</b>	Understand the concepts of Calculus and Riemann integral.
		<b>CO4</b>	Know foundation of Rolle's theorem, Law of mean and the fundamental theorem of calculus.
		<b>CO5</b>	Evaluate and analyse Taylor's theorem, point-wise and uniform convergence of sequence of functions.
<b>SM26C</b>	<b>Complex Analysis</b>	<b>CO1</b>	Learn about analytic functions and conformal mapping.
		<b>CO2</b>	Acquire knowledge about Bilinear Transformation and Mapping.
		<b>CO3</b>	Learn complex integration
		<b>CO4</b>	Learn series expansions and singularities
		<b>CO5</b>	Find residues and evaluation of definite integrals
		<b>CO1</b>	Learn about the basic concepts in graph theory.
		<b>CO2</b>	Understand the concepts of walk and cycle.
<b>SM4AG</b>	<b>Graph Theory</b>	<b>CO3</b>	Apply the concept of Eulerian graph.
		<b>CO4</b>	Identify and develop the applications of planarity.
		<b>CO5</b>	Apply the concept of connector problem.
		<b>CO1</b>	Understand the basic concepts to solve linear programming problems using appropriate techniques and optimization solvers, interpret the results obtained.



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<b>SM4AH</b>	<b>Operations Research</b>	<b>CO2</b>	Learn to determine the optimal solution for transportation and assignment problems.
		<b>CO3</b>	Understand the concept of sequencing problem and game theory.
		<b>CO4</b>	Learn the appropriate queuing model for a given practical application.
		<b>CO5</b>	Understand the concepts of CPM and PERT computations.



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**DEPARTMENT OF BUSINESS ADMINISTRATION**

**BBA**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOME
I YEAR - I SEMESTER			
<b>BB21A</b>	<b>Principles of Management</b>	<b>CO1</b>	The student learns about the basic concepts of Management.
		<b>CO2</b>	The student will gain knowledge about planning, policies and decision making.
		<b>CO3</b>	The student acquires about the types of organization.
		<b>CO4</b>	The student learns about Recruitment, Training and Selection.
		<b>CO5</b>	The student will gain knowledge about Business Ethics.
<b>BB21B</b>	<b>Financial Accounting</b>	<b>CO1</b>	Students will be able to understand the applications of journals, ledger, trial balance and cash book in the firm.
		<b>CO2</b>	Students can solve the problems relating to final accounts and non-trading organization.
		<b>CO3</b>	Students will be aware of the problems in partnership accounts.
		<b>CO4</b>	Students will be able to understand the purpose of using depreciation and insurance in the company.
		<b>CO5</b>	Analyse and prepare accounts for a single entry system.
		<b>CO1</b>	The student identifies the basics of managerial economics.
		<b>CO2</b>	The student learns about demand analysis and





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BB31A	Managerial Economics		consumer behaviour.
		CO3	The student acquires knowledge about the production and its law.
		CO4	The student studies the pricing methods and policies.
		CO5	The student will gain knowledge about the monopolistic environment.
I YEAR - II SEMESTER			
BB22A	Business Communication	CO1	The students will understand the importance of business communication, types of business communication, and barriers to effective communication and the strategies to overcome them and the layout of business letters.
		CO2	This unit helps students to understand about all kinds of business letters for appointment, acknowledgement, promotion, enquiries, replies, sales circular.
		CO3	The students can understand the different types of business correspondence such as banking correspondence, insurance correspondence and with shareholders and directors.
		CO4	The students will understand the aspects of sales promotion, implementation and control of advertising campaigns.
		CO5	The students will understand the effectiveness of advertising and its relevance.
BB22B	Management Accounting	CO1	The student identifies the basics of Management Accounting.
		CO2	The student will familiar with management accounting tools.
		CO3	The student will acquire knowledge of ratio analysis and capital structure.
		CO4	The student will gain knowledge about fund flow, cash flow analysis and budgeting.



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		<b>CO5</b>	The student can acquire knowledge about investment decisions.
<b>BB32A</b>	<b>International Trade</b>	<b>CO1</b>	The students identify the basics in Management Accounting.
		<b>CO2</b>	The student familiarizes with the management accounting tools.
		<b>CO3</b>	The student acquires knowledge in ratio analysis and capital structure.
		<b>CO4</b>	The student gain knowledge about funds flow, cash flow analysis and budgeting.
		<b>CO5</b>	The student acquires knowledge towards investment decisions.
<b>II YEAR - III SEMESTER</b>			
<b>BB23A</b>	<b>Financial Management</b>	<b>CO1</b>	The student identifies the basics of financial management.
		<b>CO2</b>	The student learns about the formation of capital structure.
		<b>CO3</b>	The student acquires various financial management tools.
		<b>CO4</b>	The student studies about the dividend policies.
		<b>CO5</b>	The student will gain knowledge on working capital management.
		<b>CO1</b>	The students will understand about the term organizational behaviour, its theories, measurement of intelligence in the organization and understand different types of personality.
<b>BB23B</b>	<b>Organizational Behaviour</b>	<b>CO2</b>	The students can understand the concept of motivation, types, job satisfaction, morale, employee attitudes and their effectiveness over productivity.
		<b>CO3</b>	The students will understand the concept of work environment, good housekeeping practices, and the concept of leadership.



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		<b>CO4</b>	The students will understand the aspects of group dynamics, cohesiveness, co-operation-Group norms and role position status.
		<b>CO5</b>	The students will understand the concept of organizational culture and development and its relevance to the performance of the organization.
<b>BB23C</b>	<b>Computer Application in Business</b>	<b>CO1</b>	Students will learn about Ms-Word and Ms-Excel for business functions.
		<b>CO2</b>	Students will understand DBMS and MS-Access.
		<b>CO3</b>	Students will acquire fundamental knowledge of EDI.
		<b>CO4</b>	Students will learn about DNS and Client server computing.
		<b>CO5</b>	Students will know the principles of Information system audit.
<b>BB23D</b>	<b>Marketing Management</b>	<b>CO1</b>	The student learns the fundamentals of marketing.
		<b>CO2</b>	The student acquires knowledge of consumer goods and industrial goods.
		<b>CO3</b>	The student will aware about the new product development cycle.
		<b>CO4</b>	The student studies about physical distribution.
		<b>CO5</b>	The student will gain knowledge on personal selling, direct selling and sales promotion.
<b>BB33A</b>	<b>Business Statistics</b>	<b>CO1</b>	After successful completion of the course, students will be able to summarize and analyse statistical data to solve practical business-related problems.
		<b>CO2</b>	Students will be able to know about the difference between correlation and regression.
		<b>CO3</b>	Students will be able to understand the concept of time series.



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		<b>CO4</b>	Students will be able to know about quantitative changes in the agricultural, industrial and commercial fields, as also in such economic magnitudes as income, employment, exports, imports, prices, etc.
		<b>CO5</b>	Categorizes and defines the sampling methods.
<b>II YEAR - IV SEMESTER</b>			
		<b>CO1</b>	Students will be able to understand the nature and scope of HRM, HRP, recruitment, selection, interview and placement.
<b>BB24A</b>	<b>Human Resource Management</b>	<b>CO2</b>	Students will get familiar with the training needs, performance appraisal, transfer, promotion, termination and career development in an organization.
		<b>CO3</b>	Students will be aware of the components of remuneration, incentives, motivation and social security measures of an employee.
		<b>CO4</b>	Students will be able to understand the trade union, collective bargaining, WPM in a company.
		<b>CO5</b>	Students will be aware of the nature, benefits, scope and approaches of Human Resource Audit.
<b>BB24B</b>	<b>Business Regulatory Framework</b>	<b>CO1</b>	The student will identify the concepts of business law.
		<b>CO2</b>	The student can acquire knowledge about the Indian Contract Act.
		<b>CO3</b>	Students can know more about the Indian Companies Act.
		<b>CO4</b>	Students can study about the Sale of Goods Act.
		<b>CO5</b>	Students can gain knowledge about TRIPS and IRDA.
<b>BB24C</b>	<b>Financial Services</b>	<b>CO1</b>	The students will understand about the term financial services and its players.
		<b>CO2</b>	The students can understand the concept of merchant banking and stock exchange.
		<b>CO3</b>	The students will understand the concept of Leasing



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			and Hire Purchase system.
		<b>CO4</b>	The students will understand the aspects of Venture Capital and Consumer Finance.
		<b>CO5</b>	The student will understand the concept of Mutual Funds and Institutions involved.
<b>BB24D</b>	<b>Management Information System</b>	<b>CO1</b>	After completing the course, the student will understand the information systems in today's competitive business environment.
		<b>CO2</b>	Be able to identify the classifications of system.
		<b>CO3</b>	Identify the hardware components in computer system.
		<b>CO4</b>	Know the concepts of system analysis and design.
		<b>CO5</b>	Gain knowledge about decision support system.
<b>BB34A</b>	<b>Operation Research</b>	<b>CO1</b>	Learns the origin and history of Operations Research and acquires knowledge about Linear Programming Problem.
		<b>CO2</b>	Students will be familiar about the Transportation and Assignment problem.
		<b>CO3</b>	Acquire knowledge about Network analysis.
		<b>CO4</b>	Students will gain the knowledge of Queuing theory.
		<b>CO5</b>	Acquire knowledge to solve problems in Game theory and decision theory.
<b>III YEAR - V SEMESTER</b>			
	<b>Advertising</b>	<b>CO1</b>	The students will understand about the term advertising, its process, importance and limitations and about the advertising message; its structure, appeal, format and source.
		<b>CO2</b>	The students can understand the concept of advertisement media and budget planning.



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<b>BB25A</b>	<b>Management and Sales Promotion</b>	<b>CO3</b>	The students will understand the IMC Programme and its features and functions of advertising agencies.
		<b>CO4</b>	The students will understand the aspects of sales promotion, implementation and control of advertising campaigns.
		<b>CO5</b>	The students will understand the effectiveness of advertising and its relevance.
<b>BB25B</b>	<b>Research Methodology</b>	<b>CO1</b>	Students understand the need and process of research in doing their field work.
		<b>CO2</b>	Students understand the research design and sampling in choosing the sample size for their research work.
		<b>CO3</b>	Students understand how to collect primary and secondary data for their research.
		<b>CO4</b>	Students get familiar with the analysis and interpretation of results in the research report.
		<b>CO5</b>	The student identifies the factors of good layout for production.
<b>BB25C</b>	<b>Operations Management</b>	<b>CO1</b>	The student identifies the concept of Operations Management.
		<b>CO2</b>	The student identifies the factors of a good layout for production.
		<b>CO3</b>	The student learns about production and inventory control concepts
		<b>CO4</b>	The student will understand about work measurement and method study procedure.
		<b>CO5</b>	The student can gather information about service operations management.
<b>BB25D</b>	<b>Material Management</b>	<b>CO1</b>	Students acquire knowledge about the functions and importance of materials management.
		<b>CO2</b>	Students understand integrated materials management and also MRP tools.
		<b>CO3</b>	Students understand the purchase procedure, principles in the company.





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		<b>CO4</b>	Students get familiar with the advantages, disadvantages and functions of store keeping.
		<b>CO5</b>	Students understand about the vendor rating, value analysis and ISO types.
<b>BB45A</b>	<b>Entrepreneurial Development</b>	<b>CO1</b>	The student identifies the concept of entrepreneurship
		<b>CO2</b>	The student learns about professional behaviour.
		<b>CO3</b>	The student identifies the significant changes and trends towards business opportunities.
		<b>CO4</b>	The student knows about the business and project report for starting a new venture
		<b>CO5</b>	The student is ready to start a new venture on team based work.
<b>III YEAR - VI SEMESTER</b>			
<b>BB26A</b>	<b>Business Environment</b>	<b>CO1</b>	Students identify the concept of the business environment & its significance.
		<b>CO2</b>	Students learn about the various environmental factors and its impact on business.
		<b>CO3</b>	Students learn cultural heritage and social organizations.
		<b>CO4</b>	Students study about economic planning and systems.
		<b>CO5</b>	Students will gain knowledge about all financial systems and banks.
<b>BB26B</b>	<b>Services Marketing</b>	<b>CO1</b>	Students understand the concept, characteristics and classification of service marketing.
		<b>CO2</b>	Students understand about the product decision, strategies, promotion and distribution methods for service.
		<b>CO3</b>	Students understand about the internal marketing of services.
		<b>CO4</b>	Students get familiar with the performance and delivery gaps in service marketing.
		<b>CO5</b>	Students get familiar with all the services under the service marketing.



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<b>BB26C</b>	<b>Business Taxation</b>	<b>CO1</b>	The student will identify the concept of business taxation & its significance.
		<b>CO2</b>	The student acquires knowledge about the basic concepts of taxation.
		<b>CO3</b>	The student can know about the technical terms of tax.
		<b>CO4</b>	The student can know about the tax system in India.
		<b>CO5</b>	The student will gain knowledge about recent changes in tax system.
<b>BB46E</b>	<b>E-Business</b>	<b>CO1</b>	After completing the course, the students will Learn about e-business concepts.
		<b>CO2</b>	Understand the e-business tools.
		<b>CO3</b>	Learn about e-security threats and e-payment methods.
		<b>CO4</b>	Know the e-business strategies and the impact of environment on e-business.
		<b>CO5</b>	Study the environment of e-business.
<b>BB46Q</b>	<b>Project Work (Group)</b>	<b>CO1</b>	The student will understand about the introduction of the study, the objectives of the study and the need for the study.
		<b>CO2</b>	The student will understand the concept of reviewing literature.
		<b>CO3</b>	The student will understand the concept of research methodology and its implications.
		<b>CO4</b>	The student will understand the methods of data analysis and interpretation of the study.
		<b>CO5</b>	The student will find out the results of their studies.



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**DEPARTMENT OF COMMERCE**

**B. Com. GENERAL**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>CZ21A</b>	<b>Financial Accounting</b>	<b>CO1</b>	The students will be able to prepare final accounts of sole trading concerns and non - profit organizations.
		<b>CO2</b>	Solve problems relating to Depreciation and Fire Insurance claims.
		<b>CO3</b>	Analyze and prepare accounts for a single entry system.
		<b>CO4</b>	The students will be aware of Bank Reconciliation statement and Rectification of errors.
		<b>CO5</b>	The students will be able to understand the hire purchase and instalment systems.
<b>CZ21B</b>	<b>Business Communication</b>	<b>CO1</b>	The students will familiarize with the basic principles to maintain Professional Communication.
		<b>CO2</b>	The students will learn to write business letters to maintain goodwill between suppliers and customers.
		<b>CO3</b>	The students will be empowered to correspond with Banks, Agency, Government and shareholders in a clear and practical manner.
		<b>CO4</b>	The students will learn to record the activities of the firm in an organized format for specific meetings.
		<b>CO5</b>	The students will familiarize in modern communication technologies to send generalized and personalized messages to Businesses and customers across the globe.
<b>CZ31A</b>	<b>Business Economics</b>	<b>CO1</b>	After completing the course, students will Illustrate the application of Business Economics in business decision making.
		<b>CO2</b>	Outline the economic concepts and functions of Demand and Supply by charts and diagrams.
		<b>CO3</b>	Discuss about Consumer Behaviour methods and Indifference curve.



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		<b>CO4</b>	Explain how the Law of variable proportions and returns to scale works in Business Economics.
		<b>CO5</b>	Analyze various Product Pricing methods and various market structures.
<b>I YEAR - II SEMESTER</b>			
<b>CZ22A</b>	<b>Advanced Financial Accounting</b>	<b>CO1</b>	The students will be able to ascertain wholesale profit and retail profit for independent branches
		<b>CO2</b>	Solve problems relating to Calculation of Profit for Inter-departmental transfers at cost or selling price.
		<b>CO3</b>	Analyse and prepare accounts for Admission of a Partner – Retirement of a Partner – Death of a Partner.
		<b>CO4</b>	The students will be able to solve problems relating to Insolvency of a Partner – Insolvency of all Partners, Piecemeal Distribution of cash in Partnership Firm.
		<b>CO5</b>	The students will be able to understand role of developing IFRS, Implementation plan in India- Ind AS-Difference between Ind AS and IFRS.
<b>CZ22B</b>	<b>Principles of Management</b>	<b>CO1</b>	The students will be able to understand the basic concepts of management.
		<b>CO2</b>	Gain knowledge on planning and decision making in organization.
		<b>CO3</b>	Able to understand organization structure and departmentalization.
		<b>CO4</b>	Able to describe the authority and responsibility in an organization.
		<b>CO5</b>	Learn about Co-ordination and Control- Principles and techniques.
<b>CZ32A</b>	<b>Indian Economy</b>	<b>CO1</b>	After completing the course, the students will understand the concept of Economic Growth and Economic Development.
		<b>CO2</b>	Know the current scenario of Population, Unemployment, Poverty in the Economy.
		<b>CO3</b>	Gain knowledge about Green Revolution and Food policy in Agriculture
		<b>CO4</b>	Facilitate the student to learn about New Economic Policy.



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		<b>CO5</b>	Know about the NidhAayog and Five Year Plans in India.
<b>II YEAR - III SEMESTER</b>			
		<b>CO1</b>	The students learn how a company can mobilize huge funds from investors and the procedures involved in it.
		<b>CO2</b>	The students come to know about the various underwriting agreements and the accounting
<b>CZ23A</b>	<b>Corporate Accounting</b>		treatment for different types of application
		<b>CO3</b>	The students understand the clear picture of the financial position of the organization and are able to provide the necessary information to the management, owners or any other users of such accounting information.
		<b>CO4</b>	The students will understand the performance of the firm by applying various methods of valuation of goodwill and shares.
		<b>CO5</b>	The students will learn to keep a proper record of claims, premiums and analyse the growth of the insurance business by preparing profit and loss accounts.
<b>CZ23B</b>	<b>Business Law</b>	<b>CO1</b>	Apply basic elements required to enter into a valid contract under the Indian Contract Act 1872
		<b>CO2</b>	Understand the legal provisions related to consideration, free consent, void agreement and unlawful agreements
		<b>CO3</b>	Outline the various provisions regarding performance, discharge and breach of contract.
		<b>CO4</b>	Gain knowledge on the main principles which govern trade and business under the Sale of Goods Act, 1930
		<b>CO5</b>	Helps to understand the basic laws of contemporary issues in business laws.
<b>CZ23C</b>	<b>Banking Theory Law and Practice</b>	<b>CO1</b>	Learner will have adequate knowledge about banking sector development and commercial bank functions.
		<b>CO2</b>	Student will understand about RBI and its function
		<b>CO3</b>	Student will understand 'e-banking' services through mobile phones and other electronic devices.



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		<b>CO4</b>	Student will have knowledge about cheques, itscrossing and other negotiable instruments.
		<b>CO5</b>	Leaner will gain insight into various types of endorsement and Ombudsman
<b>CZ23D</b>	<b>Marketing</b>	<b>CO1</b>	Gain the knowledge of classifications of market.
		<b>CO2</b>	Understand the concept of buying decision process and buying motives
		<b>CO3</b>	Help to know about the stages of new product development and product life cycle
		<b>CO4</b>	Outline the concepts of advertising and personal selling.
		<b>CO5</b>	Understanding E- Marketing and marketing
			regulations.
<b>CZ33A</b>	<b>Business Statistics</b>	<b>CO1</b>	Understand the relevance and need of statistics in current scenario. Analyse the statistical data graphically using frequency distribution and cumulative frequency distribution.
		<b>CO2</b>	Students will be able to know about the concept of measures of central tendency and measures of dispersion.
		<b>CO3</b>	Able to understand correlation between continuous variables and regression analysis.
		<b>CO4</b>	Students will be able to understand the concept of time series.
		<b>CO5</b>	Able to calculate price index numbers and volume index numbers.
<b>II YEAR - IV SEMESTER</b>			
<b>CZ24A</b>	<b>Advanced Corporate Accounting</b>	<b>CO1</b>	The students will learn about alteration of share capital and capital reduction procedures.
		<b>CO2</b>	The students come to know about the various methods of purchasing consideration.
		<b>CO3</b>	The students understand the clear picture of holding and Subsidiary company accounts.
		<b>CO4</b>	The students will understand the schedules to prepare profit and loss accounts of banking companies.
		<b>CO5</b>	The students will learn to keep a proper record of liquidator'sfinal statement of accounts.
		<b>CO1</b>	Understand the various clauses of companies act.





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CZ24B	Company Law	CO2	Know the procedure for formation of a company.
		CO3	Understand the appointment and removal of managerial personnel.
		CO4	Know the procedures for Meetings and Resolutions.
		CO5	Understand the procedures of Winding of a Company.
CZ24C	Financial Services	CO1	Understand the various types of financial services.
		CO2	Able to know about the financial market in India.
		CO3	Understand the money market and stock market.
		CO4	Insight into leasing and factoring services.
		CO5	Enable the students to know about the concepts and usage of venture capital.
		CO1	Gain knowledge of the principles of Indirect Taxation.
CZ24D	Indirect Taxation	CO2	Understand about GST concepts.
		CO3	Able to know the GST assessment procedures.
		CO4	Helps to know about the GST audit and national audit Profiteering authority.
		CO5	Spotlighting about Customs Duty.
CZ34A	Elements of Operations Research	CO1	Learns the origin and history of operations research.
		CO2	Acquire knowledge about linear programming problems.
		CO3	Solve problems using graphic and simplex methods in LPP.
		CO4	Students will familiarize about the transportation and assignment problems.
		CO5	Acquires knowledge to solve problems in Game Theory.
III YEAR - V SEMESTER			
CZ25A	Elements of Cost Accounting	CO1	Outline the basic principles and concepts of cost accounting
		CO2	Prepare the statement of cost and provide insight into control of cost
		CO3	Prepare the statements relating to material purchase, issue and losses
		CO4	Compute the Labour Cost under various remuneration schemes



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		<b>CO5</b>	Analysis the different methods to compute overhead cost
<b>CZ25B</b>	<b>Practical Auditing</b>	<b>CO1</b>	Gain insight into the auditing practices prevailing in the present scenario
		<b>CO2</b>	Understand the various techniques of verification and valuation of assets and liabilities
		<b>CO3</b>	Outline about the penal provisions and standards provided by NFRA
		<b>CO4</b>	Helps to know about the auditor's responsibilities towards audit report
		<b>CO5</b>	Understand the general approach of auditing in EDP environment
<b>CZ25C</b>	<b>Logistics and Supply Chain Management</b>	<b>CO1</b>	Students understand the basic concepts of logistics and supply chain management
		<b>CO2</b>	Helps students to understand the concepts of inventory carrying and warehousing
		<b>CO3</b>	Helps students to recognize the various modes of transportation and their networks
		<b>CO4</b>	Helps students to get an idea on logistics
			information system and distribution channels
		<b>CO5</b>	Helps students to appraise the performance of logistics and supply chain management
<b>CZ25D</b>	<b>Financial Management</b>	<b>CO1</b>	Develop the scope of financial management in functional areas of business.
		<b>CO2</b>	Solve problems relating to the capital structure, cost of capital and types of leverage
		<b>CO3</b>	Choose appropriate dividend theories to cope with market conditions
		<b>CO4</b>	Analyse the elements of working capital management for efficient management of short term finance.
		<b>CO5</b>	Analyse the various investment decisions for capital investment.
	<b>Income Tax Law</b>	<b>CO1</b>	Detailed understanding about the important definitions under the income tax and to determine the residential status of an individual and scope of total income.
		<b>CO2</b>	Students will be able to compute the income from salaries



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CZ45A	and Practice I	CO3	Students will understand computation of income from House Property.
		CO4	Students will understand the computation of income from Business/ Profession.
		CO5	Insight into PAN card and its usage; TDS, TCS and TRACES.
III YEAR - VI SEMESTER			
CZ26A	Advanced Cost Accounting	CO1	Gain knowledge of contract account and prepare statement of contract account.
		CO2	Students will solve problems relating to statement of process costing.
		CO3	The students come to know about the various operating costing methods.
		CO4	The students will have the clear picture of marginal costing and break even analysis.
		CO5	Acquire knowledge on standard costing and variance analysis.
		CO1	Gain knowledge on management accounting concepts, tools and techniques.
		CO2	Able to use Management Accounting tools to analyse financial statements.
		CO3	Understand the relevance of ratio analysis in business organizations.
CZ26B	Management Accounting	CO4	Acquire skill to prepare the fund flow and cash flow statements of a business enterprise.
		CO5	Competence to prepare different types of budgets and to take managerial decisions by application of marginal costing.
CZ26C	Entrepreneurial Development	CO1	Learner will have adequate knowledge about entrepreneur and their types.
		CO2	Student will understand the techniques of Business idea generation.
		CO3	Student will have adequate knowledge about feasibility analysis.
		CO4	Student will be able to demonstrate a model project report for a new venture.
		CO5	Leaner will have knowledge about Government grants and schemes.
		CO1	Students will able to compute the gains or loss occurred from the transfer of capital assets.



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<b>CZ46A</b>	<b>Income Tax Law and Practice II</b>	<b>C02</b>	Students acquire knowledge about other sources of income and other related provisions.
		<b>C03</b>	Students identify the permissible inter-source and inter-head adjustments and provisions relating to clubbing of incomes.
		<b>C04</b>	Students understand the concepts of deductions and compute the total income and tax liability of an individual.
		<b>C05</b>	Students will get awareness on the income tax authorities and procedure of assessment.
<b>CZ46B</b>	<b>Human Resource Management</b>	<b>C01</b>	Understand the Framework of Human Resource Management and Human Resource Planning.
		<b>C02</b>	Learns about the Recruitment, Selection Training, Performance Appraisal, Promotion and Transfer Process.
		<b>C03</b>	Help students to understand the Motivation Techniques, Incentive Plans, Labour Relations, Social Ethics and Responsibility.
		<b>C04</b>	Outline the Human Resource Accounting and Auditing Concepts.
		<b>C05</b>	Explicate the Scope and importance of CSR.



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**DEPARTMENT OF COMPUTER APPLICATIONS**

**BCA**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>SE21A</b>	<b>Problem Solving using Python</b>	<b>CO1</b>	To understand the principles of Python and acquire skills in programming in python.
		<b>CO2</b>	Interpret the fundamental Python syntax and semantics.
		<b>CO3</b>	Able to be fluent in the use of Python control flow statements.
		<b>CO4</b>	Able to develop simple turtle graphics programs in Python.
		<b>CO5</b>	To develop the emerging applications of relevant fields using Python.
<b>SE211</b>	<b>Problem Solving using Python Lab</b>	<b>CO1</b>	Understand the numeric or real life application problems and solve them.
		<b>CO2</b>	Apply a solution clearly and accurately in a program using Python.
		<b>CO3</b>	Apply the best features available in Python to solve the situational problems.
<b>SM3AA</b>	<b>Mathematics I</b>	<b>CO1</b>	Gain knowledge about basic concepts of algebra and solving equations by using numerical methods.
		<b>CO2</b>	Able to calculate the Eigen values, Eigen vectors and the applications of Cayley Hamilton theorem.
		<b>CO3</b>	Transform the equation through increasing and decreasing the roots and develop the skill necessary to solve polynomial equations.



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		<b>CO4</b>	Write the expansions of trigonometric functions in terms of its powers and multiples and know about hyperbolic functions.
		<b>CO5</b>	Able to know the applications of derivatives in finding maxima, minima and radius of curvature.
<b>ST51C</b>	<b>Stress Management</b>	<b>CO1</b>	To enable students to identify stressors.
		<b>CO2</b>	To teach stress cycle and adaptation syndrome.
		<b>CO3</b>	To manage stress.
		<b>CO4</b>	To communicate assertively.
		<b>CO5</b>	To learn to relax and meditate.
<b>I YEAR - II SEMESTER</b>			
<b>SU22A</b>	<b>Object Oriented Programming Concepts using C++</b>	<b>CO1</b>	To understand the principles of syntax and semantics in C++ programming
		<b>CO2</b>	Interpret the concept of classes and objects
		<b>CO3</b>	Able to be fluent in the use of operator overloading and inheritance
		<b>CO4</b>	Able to develop polymorphism and virtual functions
		<b>CO5</b>	To develop the files and exception handling
<b>SU221</b>	<b>C++ Programming Lab</b>	<b>CO1</b>	To understand the structure and model of the C++ programming language.
		<b>CO2</b>	To solve problems in C++ demonstrating Object Oriented Concepts.
<b>SM3AE</b>	<b>Mathematics II</b>	<b>CO1</b>	Gain knowledge about basic concepts of integral calculus.
		<b>CO2</b>	Able to solve second order non-homogeneous differential equations with constant coefficients of some particular types and understanding about partial differential equations.





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		<b>CO3</b>	Gain knowledge about Laplace transforms of standard functions and its applications in solving differential equations.
		<b>CO4</b>	Gain knowledge about the basic concept of vector differentiation.
		<b>CO5</b>	Gain knowledge about the basic concept of vector integration.
<b>ST52C</b>	<b>Anger Management</b>	<b>CO1</b>	Knowledge of anger and its characteristics.
		<b>CO2</b>	Identify forms of anger in relation to gender and culture.
		<b>CO3</b>	Knowing manifestations of anger and causes of anger.
		<b>CO4</b>	Emphasizes styles of anger.
		<b>CO5</b>	Management of anger-relaxation, RET, Cue control, cognitive restructuring, yoga meditation.
<b>II YEAR - III SEMESTER</b>			
<b>SZ23A</b>	<b>Data Structures</b>	<b>CO1</b>	To understand the principles of data structures using array and linked list.
		<b>CO2</b>	Apply the different linear data structures like stack, queue and linked list to problem solutions
		<b>CO3</b>	Apply the different non-linear data structures like trees to problem solutions.
		<b>CO4</b>	Apply the different non-linear data structures like graphs to problem solutions.
		<b>CO5</b>	Critically analyse the various searching and sorting algorithms.
		<b>CO1</b>	Use Object Oriented concepts to solve real problems.
		<b>CO2</b>	Knowledge of the structure and model of the Java programming language



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SZ23B	Java Programming	CO3	Identify classes, objects, abstract classes, members of a class and the relationships among them for a specific problem.
		CO4	Demonstrate the use of String and String Buffers, Develop multithreaded programs in Java.
		CO5	Understand the basic principles of creating Java applications with GUI.
SZ23C	Computer Organization	CO1	Describe the major components of a computer system and state its function and purpose.
		CO2	Describe the microstructure of a processor.
		CO3	Demonstrate the ability to program a microprocessor in assembly language.
		CO4	Classify and describe the operation DMA and peripheral Interfaces.
SZ231	Data Structures using Java Lab	CO1	Write functions to implement linear and non-linear data structure operations.
		CO2	Suggest appropriate linear and non-linear data structure operations for solving a given problem.
		CO3	Analyse various sorting methods.
SZ33A	Financial Accounting	CO1	Equipped in final accounting and trial balance.
		CO2	Well organised machinery account.
		CO3	Aware of the difference in branch and department account.
		CO4	Well acquainted with hire purchase and installment purchase.
		CO5	Keeping partnership account in right manner.
II YEAR - IV SEMESTER			



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<b>SZ24A</b>	<b>Computer Network</b>	<b>CO1</b>	Analyse key networking protocols and its hierarchical relationship in the conceptual model like TCP/IP and OSI.
		<b>CO2</b>	Understand various wireless transmissions.
		<b>CO3</b>	Analyse different network protocols.
		<b>CO4</b>	Describe, analyse and compare the routing and congestion control algorithm.
		<b>CO5</b>	Understand the basic concept of the connection management and security.
		<b>CO1</b>	To recognize the benefits and features of Open Source Technology.
<b>SZ24B</b>	<b>Open Source Technologies</b>	<b>CO2</b>	To interpret, contrast and compare open source products among themselves.
		<b>CO3</b>	To interpret, contrast and compare case studies.
		<b>CO4</b>	To describe the features of Open Source project.
		<b>CO5</b>	To classify and describe the principles of Open Source Ethics.
<b>SZ24C</b>	<b>E-Commerce Technologies</b>	<b>CO1</b>	Obtain a general understanding of basic business management concepts.
		<b>CO2</b>	Have a complete knowledge about basic technical concepts relating to E-Commerce.
		<b>CO3</b>	Obtain thorough understanding about the security issues, threats and challenges of E-Commerce.
		<b>CO4</b>	Understand the concept of e-payment systems.
		<b>CO5</b>	Have the knowledge of Mobile Commerce
<b>SZ241</b>	<b>Open Source</b>	<b>CO1</b>	Students must be able to use appropriate open source tools based on the nature of the problem



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	Technologies Lab	CO2	Students will be able to code and compile different open source software
SZ34A	Cost and Management Accounting	CO1	To learn the theory of cost accounting
		CO2	To know about the stores records
		CO3	To understand about the Labour cost control.
		CO4	To understanding about overheads
		CO5	To learn the concept of Marginal costing.
III YEAR - V SEMESTER			
SU25A	Software Engineering	CO1	To understand various Software Life Cycle Models.
		CO2	The students should be able to specify software requirements.
		CO3	The students should be able to design the software using tools.
		CO4	Able to demonstrate the UML diagrams.
		CO5	To write test cases using different testing techniques.
SE25B	Operating System	CO1	Compare the performance of Scheduling Algorithms.
		CO2	Understand the methods for handling deadlocks.
		CO3	Analyse resource management techniques
		CO4	Understand the structure and Allocation Methods of Disk
		CO5	Understand the concepts of Performance and Security.
	Relational	CO1	Describe the basic concepts of a database system.
		CO2	Design a Data model and Schemas in RDBMS.



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SE25C	Database Management System	CO3	Competent in use of SQL
		CO4	Analyse functional dependencies for designing robust Database.
		CO5	Design using PL/SQL program.
SU45B	Multimedia and its Applications	CO1	To understand the technologies behind multimedia applications.
		CO2	To create time-based and interactive multimedia components
		CO3	To understand various compression and decompression techniques for various file formats.
		CO4	Use multimedia applications and user interface for effective animation.
		CO5	To understand how planning and cost management activities should be incorporated into the project and their contribution to the
			completed product.
SE251	Operating System Lab	CO1	Understand the process management policies and scheduling process by CPU.
		CO2	Analyse the memory management and its allocation policies.
		CO3	To evaluate the requirement for process synchronization
SE252	PL/SQL Lab	CO1	Implement the DDL, DML Commands and Constraints.
		CO2	Create, Update and query on the database.
		CO3	Design and Implement a simple project with Front End and Back End.
III YEAR - VI SEMESTER			
		CO1	Able to develop and publish Web pages using Hypertext Markup Language (HTML).



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<b>SZ26A</b>	<b>Web Design and Development</b>	<b>CO2</b>	Able to Create web page using forms and controls.
		<b>CO3</b>	Able to optimize page styles and layout with Cascading Style Sheets (CSS).
		<b>CO4</b>	Able to Understand, analyse and apply the role of languages to create a capstone
		<b>CO5</b>	Website using client-side web programming languages like HTML, DHTML, CSS, XML, JavaScript, and AJAX.
<b>SZ26B</b>	<b>Data Mining</b>	<b>CO1</b>	To understand the principles of data mining concepts.
		<b>CO2</b>	To study the different data mining techniques.
		<b>CO3</b>	To Apply the different clustering concepts
		<b>CO4</b>	To learn different type of classifications in data mining.
		<b>CO5</b>	To analyse the concepts of association rules.
		<b>CO1</b>	Explain the basics of mobile application development.
<b>SZ26C</b>	<b>Mobile Application Development</b>	<b>CO2</b>	Develop Android application with User interface.
		<b>CO3</b>	Develop Android application with Views, Menus and Databases.
		<b>CO4</b>	Develop Android applications with networking and animation.
		<b>CO5</b>	Use simulator tools to test and publish the application.
		<b>CO1</b>	Use of Devices, Gateways and Data Management in IoT.
		<b>CO2</b>	Design IoT applications in different domain and be able to analyse their performance





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<b>SU46B</b>	<b>Elective II: IOT and its Applications</b>	<b>CO3</b>	Implement basic IoT applications on embedded platform.
		<b>CO4</b>	Have the knowledge of IoT applications
		<b>CO5</b>	Understanding the security and privacy in IoT.
<b>SZ261</b>	<b>Core Practical-VII - Mobile Application Development Lab</b>	<b>CO1</b>	Use Emulator tools to design and develop applications.
<b>SZ26Q</b>	<b>Mini Project</b>	<b>CO1</b>	Use Emulator tools to design and develop applications.
		<b>CO2</b>	To enable the students to identify a topic of interest and complete the work through case studies and data collection.
		<b>CO3</b>	To impart skills in preparing a detailed report describing the project and results.
		<b>CO4</b>	To enable the students to undertake innovative work or to develop software packages.
		<b>CO5</b>	Use Emulator tools to design and develop applications.



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**DEPARTMENT OF INFORMATION SYSTEM MANAGEMENT**

**B. Com. ISM**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOME
<b>I YEAR - I SEMESTER</b>			
<b>BS21A</b>	<b>Financial Accounting</b>	<b>CO1</b>	Students will equip to preparing financial statement.
		<b>CO2</b>	Students will manage to compute the deprecation of a machine.
		<b>CO3</b>	Students are able to prepare a single entry system in the proper manner.
		<b>CO4</b>	Students will be acquainted with BRS and errors
		<b>CO5</b>	Students will know about hire-purchase and instalment.
<b>BS21B</b>	<b>Internet of Things</b>	<b>CO1</b>	Gain the knowledge of Introduction to Internet, Client / Server architecture in real situations and solve the problem.
		<b>CO2</b>	Students will be able to connect to the internet to implement network connection.
		<b>CO3</b>	Students will apply the awareness of the World Wide Web and analyse a webpage and identify its elements and attributes to create a website.
		<b>CO4</b>	Students will understand Internet Tools and implement Virtual Private Networks (VPNs).
		<b>CO5</b>	Students will apply the knowledge of Protecting the Internet using firewalls, cryptography techniques.
		<b>CO1</b>	Students will be equipped in the concept of Communication.



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BS31A	Business Economics	CO2	Students Will understand the demand and supply.
		CO3	Students will understand the concept of communication.
		CO4	Students will understand the law of scale
		CO5	Students will familiar with modern forms of communication.
I YEAR – II SEMESTER			
BS22A	Advanced Financial Accounting	CO1	Students will be able to prepare the Branch Accounts.
		CO2	Students will be able to analyse the Departmental account.
		CO3	Students can prepare a partnership account.
		CO4	Students can prepare a partnership account in the Dissolution firm.
		CO5	Students will understand Accounting Standards.
BS22B	Object Oriented Programming using C++ Theory & Practical	CO1	Students will implement the concept of Principles of object-oriented programming.
		CO2	Students will apply the acquaintance of C++ - Tokens, Keywords-Identifiers-Variables-Operators-Manipulators-Expressions-Control Structures.
		CO3	Students will apply the knowledge of Functions, Main Function, and Function Prototyping.
		CO4	Students will apply the familiarity of Classes and Objects.
		CO5	Students will understand the concept of Constructors and Destructors and also Operator Overloading and Function overloading.
		CO1	After completing the syllabus students are well versed with the features of the Indian Economy and know the five year plan.
		CO2	Students will analyse the macroeconomic policies, including the fiscal and economic policies of India.



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BS32A	Indian Economy	CO3	Students will determine the economic variables including inflation, unemployment, property, GDP Balance of Payments using statistical methods.
		CO4	Students will understand the trends of financial and money markets and perform cost.
		CO5	Students will identify and come to know about the five year plan, achievements and the Nidhi Aayog plan.
II YEAR – III SEMESTER			
BS23A	Computerized Accounting	CO1	Students will know to work with well known accounting software, Tally ERP.9
		CO2	Students will create their own program related to company transactions.
		CO3	Students will know about enter accounting voucher entries including advance voucher entries
		CO4	Students will know about reconciling bank statements, making accrual adjustments and printing financial statements in Tally ERP.9 Software.
		CO5	Students will possess the required skill and can also be employed as Tally data entry operators.
BS23B	Data Structure	CO1	Students will know to implement different types of data structure in different situations, to use arrays in different applications
		CO2	Students will apply the acquaintance of stack and queue data structures in real time situations to solve a problem.
		CO3	Students will apply the understanding of linked list data structures in programming to solve a problem.
		CO4	Students will apply the familiarity of tree data structures in real time situations to solve a problem.
		CO5	Students will apply the awareness of Graph data structures in real time situations to solve a problem
		CO1	After completing the course, the students will learn to maximize profit with the primary source of income, interest earned on loans and investment securities.



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BS23C	Banking Theory Law & Practice	CO2	To regulate the issue of bank notes and secure monetary stability in the country.
		CO3	To enable bank customers to use mobile instruments as a channel for accessing their bank accounts and remit funds.
		CO4	To provide individuals and businesses with the financial resources they need to grow and be prosperous.
		CO5	Students will learn endorsements and to give the brand personality.
BS23D	Java Programming – Theory and	CO1	Students will use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
	Practical	CO2	Students will read and make elementary modifications to Java programs that solve real-world problems.
		CO3	Students will validate input in a Java program.
		CO4	Students will read and make elementary modifications to Java programs that implement the real-world problems.
		CO5	Students will documents a Java program using Javadoc and applet program.
BS33A	Business Statistics	CO1	Students will understand the basic concepts of statistics, collection of data, tabulation of data and the various diagrammatic representations of data.
		CO2	After completing the course, the students will be able To learn about measures of variation and measures of central tendency.
		CO3	To gain knowledge about correlation, rank correlation and regression analysis.
		CO4	To learn about trend values and seasonal indices.
		CO5	To know about types of index numbers, the construction of Index numbers and also to understand the concept of chain base and fixed base index numbers.
II YEAR –IV SEMESTER			



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<b>BS24A</b>	<b>Management Information System</b>	<b>CO1</b>	Students will evaluate the role of information systems in today's competitive business environment.
		<b>CO2</b>	Students will assess the relationship between organizations, information systems and business processes.
		<b>CO3</b>	Students will analyse the relationship between information systems and organizations.
		<b>CO4</b>	Students will identify the core activities in the systems development process.
		<b>CO5</b>	Students will identify appropriate strategies to manage the system implementation process.
		<b>CO1</b>	After completing the course students will understand the basic concepts and significance of management in business.
<b>BS24B</b>	<b>Principles of Management</b>	<b>CO2</b>	Students gain knowledge on planning and decision making in organization.
		<b>CO3</b>	Students will understand about the organization structure and departmentalization.
		<b>CO4</b>	Students are able to understand about authority and responsibility in an organization.
		<b>CO5</b>	Students will learn about co-ordination and control techniques used in the organization.
<b>BS24C</b>	<b>Financial Services</b>	<b>CO1</b>	Students will understand the various financial services.
		<b>CO2</b>	Students will be able to access the financial market in India.
		<b>CO3</b>	Students will understand about the money and stock market.
		<b>CO4</b>	Students will understand the leasing and factoring.
		<b>CO5</b>	Students will understand venture capital.
		<b>CO1</b>	Students will implement the concept of Computer systems, Python Programming Language, Computational Thinking.
		<b>CO2</b>	Students will apply the acquaintance of an Imperative programming.





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BS24D	Python Programming Theory and Practical	CO3	Students will apply the knowledge of Text Data, Files & Exceptions.
		CO4	Students will apply the familiarity of LOOP & Iteration Patterns, Container and Randomness: Dictionaries.
		CO5	Students will apply the awareness of Namespaces, encapsulation in functions, flow control, modules as namespaces.
BS34A	Elements of Operation Research	CO1	Students will learn the origin and history of Operations Research.
		CO2	Students will be able to solve the problems using graphic and simplex method in LPP.
		CO3	Students will learn about the Transportation and Assignment problem
		CO4	Students will acquire Knowledge to solve problems in Game Theory.
		CO5	Students will learn the knowledge of the construction of index numbers.
III YEAR -V SEMESTER			
BS25A	Financial Management	CO1	After completing the course, the students will understand various concepts related to financial management.
		CO2	Manage to compute the cost of capital.
		CO3	Be able to understand and compare the financial structure.
		CO4	Students will gain knowledge of dividends and leverage developed in financial decisions.
		CO5	Develop the analytical skills which help in decision making in business situations.
BS25B	Logistics Supply Chain	CO1	After completing the course, the students will Enumerate the role of information system in improving logistics efficiency.
		CO2	Learn the principles and importance of supply chain management.
		CO3	Provide knowledge with techniques for measuring and managing supply chain uncertainty.



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	<b>Management</b>	<b>C04</b>	Provide the analytic model based approach for solving logistics and supply chain issues.
		<b>C05</b>	Understand the importance of using total supply chain cost in all analysis.
<b>BS251</b>	<b>Spread Sheet Accounting</b>	<b>C01</b>	After completing the course, the students will  Implement spread sheets in different situations, to use in different applications, Edit and Format a Spreadsheet, saving a Spreadsheet, Construct, Modify, and Format and Print a Spreadsheet
		<b>C02</b>	Apply the acquaintance of Manipulating Text using Functions, Financial and Statistical Functions, Database Functions in real time situations to solve a problem.
		<b>C03</b>	Apply the understanding of Data Validation, Conditional Filters, Pivot Tables, Group and Sub-Totals, What-if Analysis, Writing Macros.
		<b>C04</b>	Apply the familiarity of Import Data Sets and Spreadsheets, Set Calculations Settings, Graphs and Charts.
		<b>C05</b>	Apply the awareness of Creating and Customizing a Spreadsheet to journalize and post transactions, Preparing a Budget / Costing Sheet Template, Personal Income Tax Calculator Template in real time situations to solve a problem.
<b>BS25D</b>	<b>Business Analytics</b>	<b>C01</b>	After completing the course, the students will  Describe Data Analytics and its usage
		<b>C02</b>	Analyse various sampling methods.
		<b>C03</b>	Apply one sample test and two Independent Samples Tests.
		<b>C04</b>	Illustrate the data mining to be applied in Business analytics.
		<b>C05</b>	Evaluate application of Regression analysis and decision making.
		<b>C01</b>	On completion of the syllabus, student will understand the basic concepts of Portfolio Management and the techniques.
		<b>C02</b>	Students would recall and discuss the meaning and need of portfolio evaluation and portfolio revision.



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BS45B	Portfolio Management	CO3	Students would appreciate and understand the need for various fundamental analyses in developing and managing a portfolio.
		CO4	Students are acquainted with various technical analysis tools like charts, patterns and other mathematical skills.
		CO5	Students would be aware of various efficient market theories for managing portfolio
III YEAR – VI SEMESTER			
BS26A	Software Project Management	CO1	After completing the course, the students will  Implement the activities of the software project development life cycle.
		CO2	Apply the acquaintance of an appropriate project approach, selecting process model, Software effort estimation and Activity Planning.
		CO3	Apply the knowledge of risk management, resources allocation and monitoring and control in real time projects.
		CO4	Apply the familiarity of managing contracts, decision making, leadership.
		CO5	Apply the awareness of small projects, contact a project plan, PRINCE 2 - an overview BS 6079: 1996 - an overview, Euro method, an overview.
BS26B	Management Accounting	CO1	After completing the course, the students will able  To enable the students to get knowledge about the various techniques of management principles.
		CO2	To make the students know the current position of the company to get practical skills in solving management.
		CO3	To enable students to know short- term solvency and long -term solvency.
		CO4	To enable the students to get knowledge about the changes in the company’s financial position.
		CO5	To make the students understand about the marginal costing and budgetary control.
		CO1	Students will understand the concepts of entrepreneurship and will learn the professional behavior expected of an entrepreneur.



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<b>BS26C</b>	<b>Entrepreneurial Development</b>	<b>CO2</b>	Students will understand about the barriers for women entrepreneurs.
		<b>CO3</b>	Students will identify significant changes and trends which create business opportunities and to analyze the environment for potential business opportunities.
		<b>CO4</b>	Students will be able to list the objectives and determine key elements of business plans.
		<b>CO5</b>	Students will provide conceptual exposure on converting an idea to a successful entrepreneurial firm.
<b>BS46E</b>	<b>Web Technologies Theory &amp; Practical</b>	<b>CO1</b>	After completing the course, the students will  Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
		<b>CO2</b>	Read and make elementary modifications to Java programs that solve real-world problems
		<b>CO3</b>	Validate input in a Java Script and ASP.NET program.
		<b>CO4</b>	Read and make elementary modifications to Java programs that solve real-world problems.
		<b>CO5</b>	Document a Java program using Javadoc and applet programs.
<b>BS46Q</b>	<b>Project Work</b>	<b>CO1</b>	On completion of project, work statements are specific, measureable and realistic.
		<b>CO2</b>	Group projects can be effective method to motivate students, encourage active learning and develop key critical-thinking, communication and decision-making skills.
		<b>CO3</b>	Through group projects students can be able to identify the problem and rectify it.
		<b>CO4</b>	Group Projects make the students understand the concepts of project work and basic steps to do the research work.
		<b>CO5</b>	Students are able to complete the project work through different analysis and techniques to get the end result. They also understand business organization practically.



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**DEPARTMENT OF ECONOMICS**

**B. A. ECONOMICS**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR - I SEMESTER</b>			
<b>AE21A</b>	<b>Micro Economics I</b>	<b>CO1</b>	After completing the course, the students will Understand of the basic conceptual framework of economics.
		<b>CO2</b>	Gain knowledge of market mechanism.
		<b>CO3</b>	An analyse the impact of changes in market forces on price, income and output over time.
		<b>CO4</b>	Get an overview of consumer behavioral patterns to arrive at equilibrium.
		<b>CO5</b>	In sights pertaining to production, production function and producer's equilibrium.
<b>AE21B</b>	<b>Statistics I</b>	<b>CO1</b>	Calculate and interpret the various descriptive measures of Centrality and Dispersion, Correlation, Linear Regression model.
		<b>CO2</b>	Measure CPI and WPI of a country over the time period.
		<b>CO3</b>	Get in-depth knowledge on the association between the attributes.
		<b>CO4</b>	Summarise the basic probability rules and provide an understanding of theoretical distributions.
		<b>CO5</b>	Acquire knowledge on the application of test of Hypotheses in Research in Economics (Social Science)
<b>AE31A</b>	<b>Allied-I History of Economic</b>	<b>CO1</b>	Be able to trace the evolution of economic science and evaluate the contributions of various thinkers and schools of thought.
		<b>CO2</b>	Be able to conceptualize the evolution of economic ideas and hence forth identify the ideology of different schools of thought.



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	<b>Thought</b>	<b>CO3</b>	Able to develop the critical thinking - contextual analysis of theories and its relevance.
		<b>CO4</b>	Be able to develop writing and presentation Skills
			engage in academic debates/ intellectual exercise.
		<b>CO5</b>	Be able to understand how planning and infrastructure support Indian economists to develop an economy.
<b>I YEAR - II SEMESTER</b>			
<b>AE22A</b>	<b>Micro Economics II</b>	<b>CO1</b>	After completing the course, the students will Gain knowledge of perfect competition and price and output determination.
		<b>CO2</b>	Get the idea about the concepts of cost and revenue.
		<b>CO3</b>	Get information about the monopoly market and the practice of price discrimination.
		<b>CO4</b>	Gain knowledge of monopolistic competition and oligopoly market condition.
		<b>CO5</b>	Get insight into theories of rent, wage, interest and price.
<b>AE22B</b>	<b>Statistics II</b>	<b>CO1</b>	Students will be able to explore data, demonstrate skill in describing and analysing data appropriately
		<b>CO2</b>	To learn empirically verify simple economic law/ theory.
		<b>CO3</b>	To perform simple economic analysis.
		<b>CO4</b>	To identify the nature of the phenomenon as represented by the sequences of observation and forecasting.
		<b>CO5</b>	To learn inferential statistics is concerned with making inferences.
<b>AE32A</b>	<b>Allied-II Health Economics</b>	<b>CO1</b>	To understand the students, health is one of the important indicators of human development.
		<b>CO2</b>	To highlight the need for health care services supply and demand between the private and public sectors.
		<b>CO3</b>	To enable the students to learn the key concepts of health and evaluation of the health care system.





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		<b>CO4</b>	To assess the performance of health indicators and its implications.
		<b>CO5</b>	To create an awareness of health care and health insurance.
<b>II YEAR - III SEMESTER</b>			
<b>AE23A</b>	<b>Indian Economy I</b>	<b>CO1</b>	After completing the course, the students will Differentiate various economic and non-economic factors that determine the economic growth and development of the Indian economy.
		<b>CO2</b>	Identify the importance of sectoral contribution to the economic development of the country.
		<b>CO3</b>	Analyse the new economic reforms and also analyse the progress of privatization and globalization.
		<b>CO4</b>	Know the importance of agricultural sectors in Indian Economy.
		<b>CO5</b>	Appraise the issues related to Poverty and Unemployment and understand relevant policy implications to combat these problems.
<b>AE23B</b>	<b>Mathematics for Economist</b>	<b>CO1</b>	Understand the basic concepts of Mathematics. To apply the knowledge in mathematics in solving business problems.
		<b>CO2</b>	Identify and analyse problems of economic nature and find feasible solutions. Solving linear equations by using matrix.
		<b>CO3</b>	Apply concepts, equations, formulae, and mathematical expressions and relationships in a variety of economic conditions.
		<b>CO4</b>	Solutions to unconstrained optimization problems by identifying relative and global maximums and minimums of single and multi variable functions.
		<b>CO5</b>	Integration techniques in economic analysis and help to analyse consumer surplus and producer surplus.
		<b>CO1</b>	Understand the concept of rural economy.
		<b>CO2</b>	Gain knowledge about the rural employment, issues of unemployment and policies.



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AE33A	Allied-III Rural Economics	CO3	Obtain knowledge about Agricultural Marketing, pricing policies, financial issues and financial institutions.
		CO4	Know the Rural Development Programmes and Policies of the government.
		CO5	Obtain knowledge about the Rural Industrialization opportunities.
II YEAR - IV SEMESTER			
AE24A	Indian Economy II	CO1	After completing the course, the students will  Appreciate the changing perspective with regard to industrialization and policy prescriptions to enhance development.
		CO2	Be competent to analyse the cause of industrial disputes, and find out the measures for social security.
		CO3	Be capable of acquiring the ability to examine the role of trade policy and foreign trade, and know about the composition of foreign trade.
		CO4	Learn about the wide ranging impact of policy changes made by RBI and other financial institutions.
		CO5	Obtain an overview of the revenue and expenditure of both Central and State Governments and give knowledge about the revenue sharing formula recommended by Finance Commission.
AE24B	Econometrics	CO1	Illustrate the various concepts to familiarize and initiate the empirical phenomena.
		CO2	Understand how to use regression analysis to infer causal relations of economic variables.
		CO3	Understand the economic implications and the relevance of the tools required to formulate simple econometric models.
		CO4	Understand the core concepts employed for estimating single and simultaneous equations.
		CO5	Identify the uniqueness of categorical data and its subsequent estimation procedures.



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AE34A	Allied IV– Tamil Nadu Economy	CO1	To understand the growth and development aspects of Tamil Nadu State economy. To gain knowledge about demographic structure of Tamil Nadu, population policy, employment issues and poverty.
		CO2	To understand the basics of cropping pattern, irrigation, marketing, food security and PDS.
		CO3	To understand the trends in industrial development in Tamil Nadu and the roles of SSI, TIDCO, TANSI, SIPCOT, DIC in promoting industrial growth.
		CO4	To gain knowledge on the role of transport system and energy sector in promoting economic development of Tamil Nadu.
		CO5	To understand the importance of health, education and environmental knowledge.
III YEAR - V SEMESTER			
		CO1	After completing the course, the students will  Explain the concepts of Macroeconomics and its interrelations with Microeconomics.
AE25A	Macro Economics I	CO2	Learn Macroeconomic Measures of Performance, GDP and Unemployment and evaluate macro economic performance using indicators that include output measures and unemployment.
		CO3	Apply the principle of Macroeconomics in explaining the behavior of Macroeconomic variables at national as well as global level.
		CO4	Extend the concepts of Macroeconomics in unfolding the dynamics of energy sectors.
		CO5	Understand why the behavior of businesses and the rest of the world determines the Aggregate supply of goods and services.
		CO1	Understand the importance of public finance in economic development and able to differentiate private and public in terms of finance and goods.
		CO2	Gain of knowledge in public expenditure, especially the significance and effects an increase in public expenditure. Also, to study the economic views of public expenditure.



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<b>AE25B</b>	<b>Public Finance I</b>	<b>CO3</b>	Gain knowledge into various sources of public revenue and to understand the ways in which direct and indirect taxes are levied for augmenting financial resources towards economic development.
		<b>CO4</b>	Study the theoretical underpinnings behind the shifting and incidence of taxes.
		<b>CO5</b>	Understand the concept of taxable capacity with its importance, types and measurements.
<b>AE25C</b>	<b>International Economics</b>	<b>CO1</b>	Understand the fundamental conceptual framework of international trade.
		<b>CO2</b>	Learn the application of the concepts to evaluate decisions with regard to international trade.
		<b>CO3</b>	Validate arguments and reassess the need for protection or open up trade to assess the effects of tariff and non-tariff barriers.
		<b>CO4</b>	Examine the functioning and causes of balance of payments conundrum and to enhance trade flows and design schemes for evaluation.
		<b>CO5</b>	Be aware of the functions and work of international financial institutions to ensure an orderly flow of cross border flows.
<b>AE25D</b>	<b>Development Economics</b>	<b>CO1</b>	Explain development economic growth theories, international trade development theories, and related economic development theories.
		<b>CO2</b>	Learn hardcore economic prescriptions for development, concerns hitherto relegated to background like education, health, sanitation and infrastructural development.
		<b>CO3</b>	Find a place of pride in explaining the preference of various economies.
		<b>CO4</b>	Be aware of the basic theoretical framework underlying the field of Development Economics.
		<b>CO5</b>	Be able to understand how planning and infrastructure support can develop an economy.
		<b>CO1</b>	Understand the concept of agricultural economics i.e. Farming and non-farming sectors, Cropping pattern.



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AE45A	Elective I- Agricultural Economics	CO2	Gain knowledge about land holdings and its impact on productivity.
		CO3	Understand about the rural financial issues and sources of finance for agricultural development.
		CO4	Understand the concept of agricultural marketing functions and types.
		CO5	Gain knowledge about the community development programmes.
III YEAR – VI SEMESTER			
AE26A	Macro Economics II	CO1	Assess the impact of investment on increasing employment, output and consumption.
		CO2	Through the concept of multiplier.
		CO3	Understand the equilibrium between product and factor markets.
		CO4	Understand several key models and concepts of monetary economics. Demonstrate an understanding of economic fluctuations and policy measures to with stand Economic shocks.
		CO5	Learn to appreciate the role, value and limitations of monetary and fiscal policies in handling Economic fluctuations.
AE26B	Public Finance II	CO1	Understand the concept of public debt with its causes, effects and management.
		CO2	Gain knowledge of the concept of fiscal federalism, Finance commission and NITI AYO.
		CO3	Gain knowledge of the concept of deficit financing and its causes and effects in an economy.
		CO4	Gain knowledge of the framework of the budget and overview of the current Union Budget.
		CO5	Understand the major functions of local government sources of finance and the problems faced by them.
AE26C	Monetary Economics	CO1	Understand the nature, basic concepts, scope and importance of Money.
		CO2	Get an insight into the different schools of thought regarding the demand for money and supply of money.
		CO3	Get awareness of the different types, causes and effects of inflation and deflation.



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		<b>CO4</b>	Be familiarize with the different classification of banks and the evolution of banks. To understand the working & operation of RBI.
		<b>CO5</b>	Know the structure and working of money market, capital markets and also determination of foreign exchange.
<b>AE46B</b>	<b>Elective -II Managerial Economics</b>	<b>CO1</b>	Gain knowledge of scope, basic concepts and principles of managerial economics.
		<b>CO2</b>	Accure insights into demand concepts and demand forecasting methods.
		<b>CO3</b>	Acquire information about cost concepts and break-even analysis.
		<b>CO4</b>	Acquire knowledge of pricing strategies.
		<b>CO5</b>	Acquire idea of capital budgeting, project profitability and methods of appraising projects.
<b>AE46C</b>	<b>Elective -III Environmental Economics</b>	<b>CO1</b>	Acquire knowledge regarding the relationship between the economy and the environment.
		<b>CO2</b>	Differentiate different types of pollution say Cumulative and Non-cumulative; Degradable and Non-degradable etc.
		<b>CO3</b>	Understand the cost and impact of pollution
		<b>CO4</b>	Acquire in-depth knowledge in the determination of Optimum level of pollution and measures undertaken by the government to control pollution.
		<b>CO5</b>	Learn to interlinking the concept of climate change with sustainable development and to understand the impact of climate change on Rural and Urban development.





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**DEPARTMENT OF PHYSICS**

**B. Sc. PHYSICS**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>SR21A</b>	<b>Major-I Properties of Matter and Sound</b>	<b>CO1</b>	After completing the course, the students will  Analyse the strength of materials in terms of their size and shape.
		<b>CO2</b>	Understand the fluid dynamics that gives the fundamental knowledge of many practical applications.
		<b>CO3</b>	Analyse the phenomena of simple harmonic motion and the properties of systems executing such motions.
		<b>CO4</b>	Know the different methods of producing ultrasonic waves and its applications.
		<b>CO5</b>	Determine the modulus of elasticity through different experimental techniques.
<b>SM3AA</b>	<b>Allied-I Mathematics-I</b>	<b>CO1</b>	Gain knowledge about basic concepts of algebra and solving equations by using numerical methods.
		<b>CO2</b>	Be able to calculate the Eigen values, Eigen vectors and the applications of Cayley Hamilton theorem.
		<b>CO3</b>	Transform the equation through increasing and decreasing the roots and develop the skill necessary to solve polynomial equations.
		<b>CO4</b>	Write the expansions of trigonometric functions in terms of its powers and multiples and know about hyperbolic functions.



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		<b>CO5</b>	Able to know the applications of derivatives in finding maxima, minima, and radius of curvature.
<b>I YEAR - II SEMESTER</b>			
<b>SR22A</b>	<b>Major-II Thermal Physics</b>	<b>CO1</b>	Acquire knowledge of heat and different measurement techniques in calorimetry.
		<b>CO2</b>	Use thermodynamic terminology correctly.
		<b>CO3</b>	Explain fundamental thermodynamic properties.
		<b>CO4</b>	Learn the basic aspects of the kinetic theory of gases and the mean free path of molecular collision.
		<b>CO5</b>	Know about Vander Waals' equation of state and the Joule-Thomson effect.
<b>SM3AE</b>	<b>Allied-II Mathematics-II</b>	<b>CO1</b>	Gain knowledge about basic concepts of integral calculus.
		<b>CO2</b>	Be able to solve second order nonhomogeneous differential equations with constant coefficients of some particular types and understanding about partial differential equations.
		<b>CO3</b>	Gain knowledge about Laplace transforms of standard functions and its applications in solving differential equations.
		<b>CO4</b>	Gain knowledge about the basic concept of vector differentiation.
		<b>CO5</b>	Gain knowledge about the basic concept of vector integration.
<b>SR221</b>	<b>Core Practical – I</b>	<b>CO1</b>	On the successful completion of the demonstration, students develop their skills and competencies to conduct a wide range of scientific experiments.
		<b>CO2</b>	Be able to develop experimental and data analysis skills.
		<b>CO3</b>	Learn to use scientific apparatus.
<b>II YEAR - III SEMESTER</b>			



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	<b>Major-III Mathematical Methods in Physics</b>	<b>CO1</b>	Use advanced mathematical methods and theories on various mathematical and physics problems.
		<b>CO2</b>	Develop the skill of problem-solving.
		<b>CO3</b>	Use Matrices to solve simultaneous equations.
		<b>CO4</b>	Solve quantum mechanical problems using special functions and polynomials.
		<b>CO5</b>	Apply Fourier series to simple circuits & understand electromagnetic theory with Vector Calculus.
	<b>Allied Chemistry - I</b>	<b>CO1</b>	Know the fundamentals of Nuclear Chemistry.
		<b>CO2</b>	Understand the industrial application of Fuels, Fertilizers and Polymers.
		<b>CO3</b>	Understand the basic concepts of Organic Chemistry.
		<b>CO4</b>	Study the various laws of Thermodynamics.
		<b>CO5</b>	Learn the fundamentals of Chemical Kinetics and the basics of Photochemistry.
<b>II YEAR - IV SEMESTER</b>			
	<b>Major-IV Mechanics</b>	<b>CO1</b>	Understand Newton's law of motion.
		<b>CO2</b>	Know the motion of a particle in gravitational, electric and magnetic fields.
		<b>CO3</b>	Acquire knowledge of conservation law
		<b>CO4</b>	Gain knowledge of the basics of dynamics of linear and rotational motion.
		<b>CO5</b>	Realize the basic principles behind planetary motion and understand the space - time concept through relativity.



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	<b>Allied Chemistry - II</b>	<b>CO1</b>	Understand the fundamentals of coordination chemistry and its applications.
		<b>CO2</b>	Learn the structural aspects of biologically important compounds.
		<b>CO3</b>	Know the applications of the phase rule and freezing mixtures.
		<b>CO4</b>	Explain the basics of electrochemistry.
		<b>CO5</b>	Understand the basics of Analytical Chemistry.
	<b>Core Practical – II</b>	<b>CO1</b>	On the successful completion of the demonstration, students develop their skills and competencies to conduct a wide range of scientific experiments.
		<b>CO2</b>	On the successful completion of the demonstration,  Students will be able to develop experimental and data analysis skills.
		<b>CO3</b>	Learn to use scientific apparatus.
	<b>Allied Chemistry Practical I &amp; II</b>	<b>CO1</b>	Estimate the various salts and acids using volumetric analysis.
		<b>CO2</b>	To perform the Systematic analysis of organic compounds.
		<b>CO3</b>	To study the basic principles of practical chemistry.
<b>III YEAR - V SEMESTER</b>			
	<b>Major-V Optics &amp; Spectroscopy</b>	<b>CO1</b>	Know the methods of rectifying different defects in lenses.
		<b>CO2</b>	Work with interferometers and other optical instruments.
		<b>CO3</b>	Distinguish between resolving power and dispersive power.
		<b>CO4</b>	Understand the rectilinear propagation of light.



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		<b>CO5</b>	Be conversant with the production and detection of different types of polarized light and extract the dynamic information about the molecules using spectroscopic techniques.
	<b>Major-VI Electricity and Electromagnetism</b>	<b>CO1</b>	Demonstrate Gauss law, Coulomb's law for the electric field and apply it to systems of point charges as well as line, surface and volume distribution of charges.
		<b>CO2</b>	Understand the principle of capacitors and dielectric properties
		<b>CO3</b>	Explain Faraday and Lenz's laws to articulate the relation between electric and magnetic fields.
		<b>CO4</b>	Use a Ballistic Galvanometer of the state of art.
		<b>CO5</b>	Apply Maxwell's equations to arrive at different optical constants.
	<b>Major-VII Quantum Mechanics</b>	<b>CO1</b>	Know the inadequacies of classical mechanics in explaining microscopic phenomena.
		<b>CO2</b>	Introduce the concept of matter waves and their existence proved by experimental procedures and uncertainty principle in physical measurements.
		<b>CO3</b>	Formulate quantum mechanics through Schrodinger equation and associated different operators.
		<b>CO4</b>	Derive time dependent and independent Schrodinger equations.
		<b>CO5</b>	Find eigen values and eigen functions of one-dimensional and three-dimensional problems.
		<b>CO1</b>	Handle basic electronic devices like diode and transistor.



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	<b>Major-VIII Basic Electronics</b>	<b>CO2</b>	Construct amplifiers of different specifications.
		<b>CO3</b>	Apply Barkhausen criteria to oscillators.
		<b>CO4</b>	Understand the different types of multivibrators.
		<b>CO5</b>	Get an idea about instrumentation.
	<b>Elective-I Geophysics</b>	<b>CO1</b>	Understand the different layers of the atmosphere.
		<b>CO2</b>	Know the details about geophysical and chemical methods.
		<b>CO3</b>	Gain sufficient knowledge of the earthquake and tsunami warning systems.
		<b>CO4</b>	Have an idea on geomagnetism and gravity.
		<b>CO5</b>	Understand the radioactivity of the earth.
<b>III YEAR - VI SEMESTER</b>			
	<b>Major-IX Atomic Physics &amp; Lasers</b>	<b>CO1</b>	Use Photo electric effect appropriately.
		<b>CO2</b>	Analyse the atomic structure and associated coupling schemes.
		<b>CO3</b>	Understand the splitting of spectral lines due to electric and magnetic fields.
		<b>CO4</b>	Be familiar with X -rays and its applications.
		<b>CO5</b>	Distinguish different types of lasers.
	<b>Major-X Nuclear &amp; Radiation</b>	<b>CO1</b>	Describe the nuclear models.
		<b>CO2</b>	Understand the half-life and mean life of radioactive substances and the mechanism of radiation.
		<b>CO3</b>	Appreciate the production of nuclear energy through nuclear fission.





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	<b>Physics</b>	<b>CO4</b>	Understand the aspects of Radiation Physics and its impact on the environment.
		<b>CO5</b>	Be familiar with the conservation laws associated with elementary particles.
	<b>Major-XI Solid State Physics</b>	<b>CO1</b>	Help as a pre-requisite for understanding materials science, nano science, etc.
		<b>CO2</b>	Understand a relationship between structure and properties of the solid state systems.
		<b>CO3</b>	Understand the importance of superconducting materials in engineering applications.
		<b>CO4</b>	Understand the different types of bonding in solid substances.
		<b>CO5</b>	Understand the magnetic and dielectric properties of crystalline structures.
		<b>CO1</b>	Gain knowledge on different number systems.
	<b>Elective-II Integrated Electronics</b>	<b>CO2</b>	Get the skill to simplify logic using Karnaugh map and Boolean algebra.
		<b>CO3</b>	Get knowledge of storing and retrieving data through mux and demux.
		<b>CO4</b>	Learn to customize the counters to the need through serial and parallel counters.
		<b>CO1</b>	Describe the general architecture of a microcomputer system and architecture & organization of 8085 Microprocessor and understand the difference between 8085 and an advanced microprocessor.
		<b>CO2</b>	Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessor.



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	<b>ELECTIVE-III Microprocessor 8085 and Microcontroller</b>	<b>CO3</b>	Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it assembly language programming.
		<b>CO4</b>	Understand the architecture and operation of Programmable Interface Devices and realize the programming & interfacing of it with 8085 microprocessor.
		<b>CO5</b>	Understand the concepts of interrupts and microcontrollers.
	<b>Physics Practical-III</b>	<b>CO1</b>	Experience basic phenomena.
		<b>CO2</b>	Develop critical, quantitative thinking.
		<b>CO3</b>	Develop experimental and data analysis skills.
		<b>CO4</b>	Learn to use scientific apparatus.
		<b>CO5</b>	Learn to estimate statistical errors and recognize systematic errors.
	<b>Physics Practical-IV</b>	<b>CO1</b>	On the successful completion of the demonstration, students develop their skills and competencies to conduct a wide range of scientific experiments.
		<b>CO2</b>	Students are able to develop experimental and data analysis skills.
		<b>CO3</b>	Students learn to use scientific apparatus
		<b>CO4</b>	Students will develop critical, quantitative thinking.
		<b>CO5</b>	Students get experience basic electronic phenomena in electronic devices and components.
		<b>CO1</b>	Students will get basic ideas on microprocessor, memory, and I/O devices.
		<b>CO2</b>	Students will be familiar with the basic concepts of microprocessor architecture and interfacing.



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	<b>Physics Practical-V</b>	<b>CO3</b>	Students will learn impart skills in the programming instruction sets of microprocessors.
		<b>CO4</b>	Students will learn the importance of Microprocessors 8085 in designing real-time applications.
		<b>CO5</b>	Students will develop interfacing to real world devices like LED displays, keyboards, DAC/ADC, and various other devices.



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**DEPARTMENT OF CORPORATE SECRETARYSHIP**

**B. Com. CORPORATE SECRETARYSHIP**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>AY21A</b>	<b>Financial Accounting</b>	<b>CO1</b>	The students will be able to acquire conceptual knowledge of the basics of accounting.
		<b>CO2</b>	The students will recognize circumstances providing for increased exposure to errors and fraud. They identify and analyze the reasons for the difference between cash book and pass book balances.
		<b>CO3</b>	The students will be able to determine the useful life and value of the depreciable asset. Create awareness to students about the need for protection against losses due to fire.
		<b>CO4</b>	The students acquired various methods in a single entry system.
		<b>CO5</b>	The students will gain knowledge on hire purchase system and installment system.
<b>AY21B</b>	<b>Business</b>	<b>CO1</b>	The students will be able to apply business communication strategies and principles to prepare effective communication for domestic and international business situations.
		<b>CO2</b>	The students will benefit by write business letters effectively.



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	<b>Communication</b>	<b>CO3</b>	The students will gain knowledge on bank correspondence, insurance correspondence, agency correspondence and correspondence with shareholders & Directors.
		<b>CO4</b>	The students will be conversant with business or official communication terms and report writing skills.
		<b>CO5</b>	The students enhance their verbal communication using modern technology.
<b>AY31A</b>	<b>International Trade</b>	<b>CO1</b>	The students will learn about various trade theories in international trade.
		<b>CO2</b>	The students will identify the basic patterns of trade and identify the role of various entities in world trade.
		<b>CO3</b>	The students study about WTO on current global trade in detail.
		<b>CO4</b>	The students will gain knowledge of the balance of payments accounting to measure international flows of money and products.
		<b>CO5</b>	Students will understand the organizations involved in international trade.
<b>I YEAR - II SEMESTER</b>			
<b>AY22A</b>	<b>Advanced Financial Accounting</b>	<b>CO1</b>	The students will be able to prepare for wholesale profit and retail profit, Independent Branches.
		<b>CO2</b>	Students will solve problems relating to calculation of Profit- Inter-departmental transfer at cost or selling price.
		<b>CO3</b>	Students will analyse and prepare accounts for Admission of a Partner – Retirement of a Partner – Death of a Partner.



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		<b>CO4</b>	The students will be aware of Insolvency of a Partner- Insolvency of all Partners, Piecemeal Distribution of cash in Partnership Firm.
		<b>CO5</b>	The students will be able to understand the role of developing IFRS, Implementation Plan in India.
		<b>CO1</b>	The students learn the basic concepts of management and understand how an organization functions.
<b>AY22B</b>	<b>Corporate Management</b>	<b>CO2</b>	The students acquire knowledge on scope and types of planning along with decision-making techniques and processes.
		<b>CO3</b>	The students learn the various functions of organizing, managing, change and innovation.
		<b>CO4</b>	The students will learn the concepts of coordination and controlling techniques.
		<b>CO5</b>	The students gain the knowledge to direct and supervise workers.
<b>AY32A</b>	<b>Business Economics</b>	<b>CO1</b>	The students will be able to get knowledge of the basics and concept of business economics.
		<b>CO2</b>	The students will know the basic concept of the modern concepts of communication.
		<b>CO3</b>	The students will be familiar with the concept of product pricing, monopoly and pricing methods.
		<b>CO4</b>	The students will understand the concept of opportunity cost, views and elements of Business economics and Business cycle.
		<b>CO5</b>	The students will be familiar with the topic of views on economics, Law of diminishing marginal utilities.





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**II YEAR - III SEMESTER**

<b>AY23A</b>	<b>Corporate Accounting</b>	<b>CO1</b>	After completing the course, students will be able  To understand the concept of pro-rata allotment in allocating the shares to the general public.
		<b>CO2</b>	To calculate the commission payable to the underwriters for the support of selling the shares to the public.
		<b>CO3</b>	To understand and remember the advanced concepts of preparing the financial statement of accounts.
<b>AY23B</b>	<b>Company Law and Secretarial Practice</b>	<b>CO4</b>	To understand the concepts of valuation of goodwill and shares.
		<b>CO5</b>	To understand the concept of preparing the financial statement of an insurance company.
		<b>CO1</b>	To learn the basic concepts of companies, Memorandum of Association & Articles of Association.
		<b>CO2</b>	To understand the types of prospectus, its contents regarding secretarial duties of the company secretary.
		<b>CO3</b>	To learn various provisions related to Member of a Company.
		<b>CO4</b>	To understand the rules regarding Director, qualification & disqualification of Director and various meetings are conducted in the organization.
		<b>CO5</b>	To learn the rules regarding winding up of the company.
		<b>CO1</b>	To understand about basic concepts of statistics, collection of data, tabulation of data and the various diagrammatic representations of data.



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AY33A	Business Statistics	CO2	To learn about measures of variation and measures of central tendency.
		CO3	To gain knowledge about correlation, rank correlation and regression analysis.
		CO4	To learn about trend values and seasonal indices.
		CO5	To know about types of Index numbers, the construction of Index numbers and also to understand the concept of chain base and fixed base Index numbers.
II YEAR - IV SEMESTER			
		CO1	After completing the course, Students will understand the accounting procedures of altering or reducing the share capital of the company.
AY24A	Advanced Corporate Accounting	CO2	Students will calculate the consideration payable to the Transferee Company and prepare a balance sheet for the Transferor Company.
		CO3	Students will evaluate the company's winding up procedures and preparing the final liquidation statement.
		CO4	Students will understand the concept of preparing the consolidated financial statement of holding companies.
		CO5	Students will understand the concept of preparing the financial statement of a banking company.
AY24B	Indirect Taxation	CO1	Student will gain knowledge of the Principles of Indirect taxation.
		CO2	Students will understand about GST concept.
		CO3	Students will be able to know the GST assessment procedures.



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		<b>CO4</b>	Students will know about the GST audit and National Anti – Profiteering Authority.
		<b>CO5</b>	Spotlighting about Customs Duty under GST.
<b>AY34A</b>	<b>Securities Laws and Market Operations</b>	<b>CO1</b>	Students will understand the conceptual knowledge of the primary market and new issue market.
		<b>CO2</b>	Students will realise the protection of investors and ensure a steady flow of savings into the capital market.
		<b>CO3</b>	Students will evaluate the financial instruments in New Issue & Secondary Market
		<b>CO4</b>	Students will recognize the concept of a mechanism of the stock market for issuing securities.
		<b>CO5</b>	Students will acknowledge the concept of Credit Rating agencies in India.
<b>III YEAR - V SEMESTER</b>			
<b>AY25A</b>	<b>Cost Accounting</b>	<b>CO1</b>	After completing the course, students will be able  To understand cost accounting and prepare a cost sheet and estimation of the cost sheet.
		<b>CO2</b>	To learn how to maintain inventory in the company.
		<b>CO3</b>	To gain knowledge of the importance of labour cost and various methods of wage payment.
		<b>CO4</b>	To ascertain the distribution channels of overheads.
		<b>CO5</b>	To understand the various methods of valuation of work in the process.



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<b>AY25B</b>	<b>Corporate Governance and Ethics</b>	<b>CO1</b>	To acquire knowledge in an environment of trust, transparency and accountability necessary for fostering long-term investment, financial stability and business integrity, thereby supporting stronger growth and more inclusive societies.
		<b>CO2</b>	To learn about various roles of stakeholders in corporate governance, with some emphasis on shareholders, directors and management.
		<b>CO3</b>	To study about the various global institution's involvements in corporate governance.
		<b>CO4</b>	To gain knowledge about goals and objectives related to social and environmental issues that help the firm only when aligned with its strategy, vision and mission.
		<b>CO5</b>	To gain skills with which to recognize and resolve ethical issues in business.
		<b>CO1</b>	To be familiar with business laws and its interpretation. To understand the
<b>AY25C</b>	<b>Business Laws</b>		essentials of a valid contract, the laws of the act.
		<b>CO2</b>	To understand the various concept of contract offers, acceptance, free consent and discharge of contracts.
		<b>CO3</b>	To understand the essentials of quasi contract and modes of discharge of a contract.
		<b>CO4</b>	To explain the various laws with regard to the sale of goods and performance of a sale contract and remedial measures.



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		CO5	To understand the various laws with regard to Patents and other Intellectual Property Rights, Concepts, Objectives & Rules relating to Patents Act, 1970, Copyright Act, 1957 & Trade Marks Act, 1999. Applicability, Duration, Registrations Procedures, Insurance Laws, IRT ACT.
AY25D	Income Tax Law and Practice I	CO1	To enable students to identify the basic concepts, definitions and terms under the Income Tax Act 1961, they can determine the residential status of an individual and the scope of total income.
		CO2	To compute the income from salaries.
		CO3	To compute income from House Property.
		CO4	To compute income from Business/ Profession.
		CO5	To understand the concept of PAN card and its usage, TDS, TCS and also TRACES.
III YEAR - VI SEMESTER			
AY45A	Marketing	CO1	After completing the course, students will be able  To understand the importance of functions and basics of a market.
		CO2	To understand the concept of market
			segmentation and consumer behaviour.
		CO3	To understand the essentials of product, pricing and its strategies.
		CO4	To understand the various methods of promotion and what advertising stands for in the market place.



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		<b>CO5</b>	To understand the most recent trends in marketing of E- marketing and MIS.
<b>AY26B</b>	<b>Management Accounting</b>	<b>CO1</b>	To gain knowledge on management, accounting concepts, tools and techniques.
		<b>CO2</b>	To use Management Accounting tools to analyse financial statements
		<b>CO3</b>	To understand the relevance of ratio analysis in business organizations.
		<b>CO4</b>	To prepare the fund flow and cash flow statements of a business enterprise.
		<b>CO5</b>	To prepare different types of budgets and to take managerial decisions by application of marginal costing.
<b>AY26A</b>	<b>Industrial Laws</b>	<b>CO1</b>	To understand the various legal Acts passed to protect the health, safety and welfare of employees.
		<b>CO2</b>	To analyse important provisions relating to the Industrial Disputes Act.
		<b>CO3</b>	To evaluate compensation payable, remedies available to workers in Workers Compensation Act.
		<b>CO4</b>	To recognise the concept of an Employee's State Insurance scheme.
		<b>CO5</b>	To acknowledge the concept of Employees Provident Fund and Miscellaneous Act, 1952.
<b>AY26C</b>	<b>Entrepreneurial Development</b>	<b>CO1</b>	To gain adequate knowledge about entrepreneurs and their types.
		<b>CO2</b>	To understand the techniques of business idea generation.
		<b>CO3</b>	To gain adequate knowledge about feasible analysis.





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		<b>CO4</b>	To demonstrate a model project report of the new venture.
		<b>CO5</b>	To gain knowledge about government grants and schemes.
<b>AY26D</b>	<b>Income Tax Law and Practice II</b>	<b>CO1</b>	To apply the gains earned or that loss occurred from the transfer of capital assets.
		<b>CO2</b>	To acquire knowledge about other source of income and other related provisions.
		<b>CO3</b>	To identify the permissible inter-source and inter-head adjustments and provisions relating to clubbing of incomes.
		<b>CO4</b>	To understand the concepts of deductions and construct the total income and tax liability of an individual.
		<b>CO5</b>	To get an awareness on the income tax authorities and the procedure of assessment.
<b>AY26I</b>	<b>Institutional Training</b>	<b>CO1</b>	To create a natural interest in the practical aspects of the corporate sector.
		<b>CO2</b>	To associate the theory with practice.
		<b>CO3</b>	To develop skills to face challenges and problems in the corporate sector/ environment.



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**DEPARTMENT OF ACCOUNTING & FINANCE**

**B. Com. ACCOUNTING & FINANCE**

**Course Outcomes**

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>CZ21A</b>	<b>Financial Accounting</b>	<b>CO1</b>	After completing the course,  The students will be able to acquire conceptual knowledge of the basics of accounting.
		<b>CO2</b>	The students will recognize circumstances providing for increased exposure to errors and fraud. They will identify and analyze the reasons for the difference between cash books and passbook balances.
		<b>CO3</b>	The students will be able to determine the useful life and value of the depreciable asset and create awareness for the students about the need for protection against losses due to fire.
		<b>CO4</b>	The students will acquire various methods in a single entry system.
		<b>CO5</b>	The students will gain knowledge of the hire purchase system and installment systems.
<b>CA21A</b>	<b>Financial Planning and Performance</b>	<b>CO1</b>	The students are able to develop the scope of financial planning in functional areas of business.
		<b>CO2</b>	The students will develop knowledge of budgeting and budgeting control.
		<b>CO3</b>	The student will benefit by choosing costs and variance to cope with market conditions.
		<b>CO4</b>	The students will analyse the elements of responsibility centres and reporting segments for efficient planning in long term and short term finance.
		<b>CO5</b>	The students will analyse the various investment measures.



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CA31B	Business Communication	CO1	The students are able to apply business communication strategies and principles to prepare effective communication for domestic and international business situations.
		CO2	The students will benefit by writing business letters effectively.
		CO3	The students will gain knowledge of bank correspondence, insurance correspondence, agency correspondence and correspondence with shareholders & directors.
		CO4	The students will be conversant with business or official communication terms and report writing skills.
		CO5	The students are able to enhance their verbal communication using modern technology.
		I YEAR - II SEMESTER	
CZ22A	Advanced Financial Accounting	CO1	The students will be able to prepare wholesale profit and retail profit, independent branches.
		CO2	The students will be able solve problems relating to calculation of profit- inter-departmental transfers at cost or selling price.
		CO3	The students will analyse and prepare accounts for Admission of a Partner – Retirement of a Partner – Death of a Partner.
		CO4	The students will be aware of the insolvency of a partner- insolvency of all partners, piecemeal distribution of cash in a partnership firm.
		CO5	The students will be able to understand the role of developing the implementation of IFRS in India.
CZ22B	Principles of Management	CO1	The students will be able to understand the concepts of management.
		CO2	The students will gain knowledge of planning and decision making in an organization.



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		<b>CO3</b>	The students will be able to understand organizational structure and departmentalization.
		<b>CO4</b>	The students will be able to describe the authority and responsibility in an organization.
		<b>CO5</b>	The students will learn about co –ordination and control, principles and techniques.
		<b>CO1</b>	The students will be able acquire knowledge of accounting information system.
		<b>CO2</b>	The students will be able to understand the life cycle
			of accounting information system and to generate solutions for business challenges.
<b>CA32B</b>	<b>Financial Analytics &amp; Control</b>	<b>CO3</b>	The students will understand the concept of cost behaviour and types of cost, classify the costing system and compare different types of cost.
		<b>CO4</b>	The students will understand supply chain management and business management.
		<b>CO5</b>	The students will understand governance, risk compliance, system control and security measures for internal control.
<b>II YEAR - III SEMESTER</b>			
<b>CZ23A</b>	<b>Corporate Accounting</b>	<b>CO1</b>	After completing the course, the students will be able  To understand the concept of pro-rata allotment in allocating the shares to the general public.
		<b>CO2</b>	To calculate the commission payable to the underwriters for the support of selling the shares to the public.
		<b>CO3</b>	To understand and remember the advanced concepts of preparing the financial statement of accounts.
		<b>CO4</b>	To understand the concept of valuation of goodwill and shares.
		<b>CO5</b>	To understand the concept of preparing the financial statement of an insurance company.



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<b>CA23A</b>	<b>Financial Reporting</b>	<b>CO1</b>	After completing the course, the students will Gain insight of the GAAP & IFRS practices prevailing in the current scenario.
		<b>CO2</b>	Understand the various techniques in revenue recognition and accruals and deferrals.
		<b>CO3</b>	Understand outline about the notes receivable and inventory valuations.
		<b>CO4</b>	Know about the asset valuation and valuation of liabilities.
		<b>CO5</b>	Understand the equity approach in transactions as per GAAP & IFRS.
		<b>CO1</b>	After completing the course, the students will
<b>CZ23C</b>	<b>Banking Theory Law and Practice</b>		Understand the basic concepts of banking and the functions of banking
		<b>CO2</b>	Analysis the role and organizational structure of the Indian banking system
		<b>CO3</b>	Develop the application skills of writing, crossing cheques, opening a bank account, using the ATM, debit card and a credit card.
		<b>CO4</b>	Analysis the different types of loans and advances available to a customer.
		<b>CO5</b>	Learn regarding the duties of a banker.
<b>CZ23D</b>	<b>Marketing</b>	<b>CO1</b>	After completing the course, the students will Gain knowledge of the classification of the market.
		<b>CO2</b>	Understand the concept of the buying decision process and buying motives.
		<b>CO3</b>	Know about the stages of new product development and product life cycle.
		<b>CO4</b>	Learn about the concepts of advertising and personal selling.
		<b>CO5</b>	Understand of E- Marketing and marketing regulations.



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CZ33A	Business Statistics	CO1	After completing the course, the students will be able  To understand about basic concepts of statistics, collection of data, tabulation of data and the various diagrammatic representation of data.
		CO2	To learn about measures of variation and measures of central tendency.
		CO3	To gain knowledge about correlation, rank correlation and regression analysis.
		CO4	To learn about trend values and seasonal indices.
		CO5	To know about types of index numbers, the construction of index numbers and also to understand the concept of chain base and fixed base index numbers.
II YEAR - IV SEMESTER			
		CO1	After completing the course, the students will
CZ24A	Advanced Corporate Accounting		Understand the accounting procedures of altering or reducing the share capital of a company.
		CO2	Be able to calculate the consideration payable to the company and prepare a balance sheet for the transferor company.
		CO3	Evaluate the company’s winding procedures and prepare a final liquidation statement.
		CO4	Understand the concept of preparing the consolidated financial statement of holding companies.
		CO5	Understand the concept of preparing the financial statement of a banking company.
CZ24D	Indirect Taxation	CO1	Gain knowledge of the principles of indirect taxation.
		CO2	Understand the GST concept.
		CO3	Be able to know the GST assessment procedures.
		CO4	Be able to know about the GST audit and national audit profiteering authority.





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		<b>CO5</b>	Understand about customs duty under GST.
<b>CA24A</b>	<b>Corporate and Business Law</b>	<b>CO1</b>	After completing the course, the students will be able  To understand the basics of law, the history of law and the essentials of a valid contract.
		<b>CO2</b>	To understand the laws with regard to offer and acceptance, consideration.
		<b>CO3</b>	To learn about the relevance of corporate laws, MOA, AOA and its various clauses, the role of NCLT, NCLAT .To explain the meaning and the various legislation with regard to capacity of parties, free consent and legality of objects.
		<b>CO4</b>	To learn the circumstances when the corporate veil can be lifted.
		<b>CO5</b>	To understand the meaning of the prospectus and its requirements, the consequences of misstatement in the prospectus, provisions relating to dividends, the provisions relating to various meetings.
		<b>CO1</b>	After completing the course, the students will
<b>CA24B</b>	<b>Working Capital Management</b>		Understand the meaning, need and importance of working capital for smooth functioning of an entity.
		<b>CO2</b>	Understand the factors which determine working capital.
		<b>CO3</b>	Learn the methods of estimating working capital.
		<b>CO4</b>	Understand the credit policy of working capital with its management.
		<b>CO5</b>	Understand the methods of receivable management.
<b>CZ34A</b>	<b>Elements of Operation Research</b>	<b>CO1</b>	After completing the course, the students will  Learn the origin and history of operations research.
		<b>CO2</b>	Acquire knowledge about linear programming problems.
		<b>CO3</b>	Be able to solve the problems using the graphic and simplex method in LPP.



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		<b>CO4</b>	Learn about the transportation and assignment problems.
		<b>CO5</b>	Acquire knowledge to solve problems in game theory.
<b>III YEAR - V SEMESTER</b>			
<b>CZ25A</b>	<b>Elements of Cost Accounting</b>	<b>CO1</b>	After completing the course, The students will know the process of Accounting for Cost Elements
		<b>CO2</b>	The students will learn about the preparation of sheets.
		<b>CO3</b>	Students will be able to understand stock levels, calculation of EOQ, methods of valuation of inventory and the importance of ABC analysis.
		<b>CO4</b>	Students will be able to understand the attendance and payroll system, methods of Labour Turnover, remuneration and bonus methods, and also be able to calculate labour costs.
		<b>CO5</b>	The students will demonstrate the concept of overhead costing.
		<b>CO1</b>	After completing the course, The students will understand the concept of present day Auditing Practices
<b>CZ25B</b>	<b>Practical Auditing</b>	<b>CO2</b>	The students will gain knowledge of various techniques of auditing.
		<b>CO3</b>	The students will develop the skills to provide stakeholders with relevant and reliable information.
		<b>CO4</b>	The students will know about the auditor's responsibilities towards audit report.
		<b>CO5</b>	The students will understand the general approach of audit in an EDP environment.
		<b>CO1</b>	The students to identify the basic concepts, definitions and terms under Income Tax Act 1961, so they can determine the residential status of an individual and the scope of total income.



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CA25A	Income Tax Law and Practice-I	CO2	The students will compute the income from salaries.
		CO3	The students will compute income from house property.
		CO4	The students will compute income from Business/ Profession.
		CO5	The students will understand the concept of the PAN card and its usage; TDS, TCS and also TRACES.
CZ25D	Financial Management	CO1	The students will develop the scope of financial management in functional areas of business.
		CO2	The students will solve problems relating to the capital structure, cost of capital and types of leverage.
		CO3	The students will know to choose appropriate dividend theories to cope with market conditions.
		CO4	The students will analyse the elements of working capital management for efficient management of short-term finance.
		CO5	The students will analyse the various investment decisions for capital investment.
CA45A	Portfolio Management	CO1	The students will understand the basic concepts of portfolio management and its techniques.
		CO2	The students can demonstrate the use of a time line in modelling and solving time value of money problems for different frequencies of compounding.
		CO3	The students can apply knowledge gained to
			perform analysis of various securities.
		CO4	Students are able to determine the portfolio risk and return and measure it on the basis of various techniques.
		CO5	The students will understand the concept of portfolio management for better investment
III YEAR - VI SEMESTER			



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<b>CZ26A</b>	<b>Advanced Cost Accounting</b>	<b>CO1</b>	After completing the course, the students will Gain knowledge of accounts and prepare contract statements.
		<b>CO2</b>	Solve problems relating to statement of process costing.
		<b>CO3</b>	Know about the various operating costing methods.
		<b>CO4</b>	Have a clear picture of marginal costs and break-even analysis.
		<b>CO5</b>	Acquire knowledge of variance analysis and standard costs.
<b>CZ26B</b>	<b>Management Accounting</b>	<b>CO1</b>	After completing the course, the students will Gain knowledge of management, accounting concepts, tools and techniques.
		<b>CO2</b>	Be able to use management accounting tools to analyse financial statements.
		<b>CO3</b>	Understand the relevance of ratio analysis in business organizations.
		<b>CO4</b>	Learn the skills to prepare the fund flow and cash flow statements of a business enterprise.
		<b>CO5</b>	Be able to prepare different types of budgets and to take managerial decisions by application of marginal costs.
<b>CA26A</b>	<b>Income Tax Law and</b>	<b>CO1</b>	After completing the course, the students will Apply the gains earned or loss that occur from the transfer of capital assets.
		<b>CO2</b>	Acquire knowledge about other sources of income and other related provisions.
		<b>CO3</b>	Identify the permissible inter-source and inter-head adjustments and provisions relating to clubbing of incomes.
	<b>Practice -II</b>		
		<b>CO4</b>	Understand the concepts of deductions and construct the total income and tax liability of an individual.



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		<b>CO5</b>	Get awareness of the income tax authorities and the procedure of assessment.
<b>CA46A</b>	<b>Entrepreneurial Development</b>	<b>CO1</b>	After completing the course, Students will have adequate knowledge about entrepreneurs and their types.
		<b>CO2</b>	Students will understand the techniques of business idea generation.
		<b>CO3</b>	Students will have adequate knowledge about feasible analysis.
		<b>CO4</b>	Students will demonstrate a model project report of a new venture.
		<b>CO5</b>	Students will have knowledge of government grants and schemes.
<b>CA46B</b>	<b>Capital Markets</b>	<b>CO1</b>	After completing the course, the students will Understand the concept of the role and functions of the financial market.
		<b>CO2</b>	Enrich knowledge of the application of the regulatory framework of the Indian capital market, insider trading and investor protection.
		<b>CO3</b>	Gain knowledge about the functions of SEBI and its guidelines.
		<b>CO4</b>	Acquire knowledge in the primary and secondary markets.
		<b>CO5</b>	Understand the need and benefits of the depository system in India, the depository process, and the functioning of NSDL.

**DEPARTMENT OF HISTORICAL STUDIES**

**B. A. HISTORICAL STUDIES**

**Course Outcomes**



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2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR - I SEMESTER</b>			
<b>AH21A</b>	<b>History of Ancient India upto 1206</b>		After completing the course, the students will
		<b>CO1</b>	Be aware of our rich nature and heritage.
		<b>CO2</b>	Get the knowledge of social development in ancient India.
		<b>CO3</b>	Know the contributions of Indian kings to ancient India.
		<b>CO4</b>	The students will learn about economic developments and intend to analyse them by reinterpreting the existing primary and secondary sources.
		<b>CO5</b>	Gain the knowledge of the political developments and develop the skills of the students by giving new arguments and interpretations.
<b>AH21B</b>	<b>History of Tamil Nadu upto 850</b>	<b>CO1</b>	Be able to inculcate the importance of the administration of ancient Tamil society.
		<b>CO2</b>	Understand the cultural heritage of Tamil Nadu.
		<b>CO3</b>	Understand about the socio-political and cultural conditions from Sangam age to A.D.1336.
		<b>CO4</b>	Understand the contribution of Pandyas.
		<b>CO5</b>	Make an acquaintance about the invasions in Tamil Nadu.
<b>AH3AA</b>	<b>Principles of Political Science</b>	<b>CO1</b>	Understand the principles of Political Science.
		<b>CO2</b>	Understand the basic concepts, principles and dynamics of political science.
		<b>CO3</b>	Understand the basic concept and ideological orientations of political science discipline.
		<b>CO4</b>	Understand the importance of writing in academic life.
		<b>CO5</b>	Understand the importance of reading for life. Read independently unfamiliar texts with comprehension.





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I YEAR - II SEMESTER			
AH22A	History of Early Medieval India	CO1	Understand the social developments in India from the Gupta to the early medieval Periods.
	1206 -1526CE	CO2	Learn about the political and cultural development of the Period.
		CO3	Understand the elements of change and continuity over time and space, particularly from the period of Gupta to Sultanate.
		CO4	Understand the administrative organization and structure of Delhi Sultanate.
		CO5	Get acquainted with the contributions of Vijayanagar and Bahmini Kingdoms.
AH22C	History of Tamil Nadu 850- 1565 CE	CO1	Understand the condition of medieval Tamilagam.
		CO2	Understand the early resistance to the British by Tamilagam.
		CO3	Understand the political scenario of Medieval Tamil Nadu.
		CO4	Gain the knowledge of the establishment of British rule in Tamil Nadu.
		CO5	Learn about the early resistance that was made by the Tamils against the British.
AH3AB	Geography of India	CO1	Identify and explain the Indian Geographical environment, from global to local scales.
		CO2	Apply geographical knowledge to everyday living.
		CO3	Apply knowledge of global issues to a unique scientific problem.
		CO4	Show an awareness and responsibility for the environment, with special reference to India.
		CO5	Be able to explain all modes and components of Transport.
II YEAR - III SEMESTER			
AH23A	History of Medieval India	CO1	Learn about the formation, expansion and consolidation of the Mughal Empire.
		CO2	Understand the transformations in the administration of colonial India.
		CO3	Get an overview of the main trends and developments in India during the Mughal period.



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	<b>1526- 1707 CE</b>	<b>CO4</b>	Understand the knowledge of socio- economic and political history, focusing on the continuity and change from the Hindu to the Muslim period.
		<b>CO5</b>	Be acquainted with British policy, stressing on the positive and negative effects.
<b>AH23B</b>	<b>History of Tamil Nadu 1565- 1806 CE</b>	<b>CO1</b>	Understand the political scenario of Tamil Nadu between the 16 <sup>th</sup> and 19 <sup>th</sup> Centuries.
		<b>CO2</b>	Know about the political and economic conditions of Tamilagam.
		<b>CO3</b>	Understand the history and the contributions of Vijayanagar, Nayak and Maratha rule in Tamilagam.
		<b>CO4</b>	Enhance the knowledge of the establishment of British rule in Tamil Nadu.
		<b>CO5</b>	Understand what the early resistances were made by the Tamils against the British.
<b>AH3AC</b>	<b>Basics of Archaeology</b>	<b>CO1</b>	Understand how evolutionary and historical processes have shaped primates and human ancestors and lead to the biological, behavioural, and cultural diversity seen in the present.
		<b>CO2</b>	Describe how varying types of data are collected, analyzed, synthesized and interpreted to achieve these first two goals.
		<b>CO3</b>	Trace and evaluate archaeology as a source history.
		<b>CO4</b>	Understand the Methods of Exploration and Excavation.
		<b>CO5</b>	Get acquainted with the meaning and importance of Epigraphy and Numismatics.
<b>II YEAR - IV SEMESTER</b>			
<b>AH24A</b>	<b>History of Modern India 1707 – 1857</b>	<b>CO1</b>	Get an overview of the main trends and developments in India during the Mughal period.
		<b>CO2</b>	Understand the knowledge of socio- economic and political history, focus on the continuity and change from the Hindu to the Muslim period.
		<b>CO3</b>	Be acquainted with the British policy, stressing on the positive and negative effects.
		<b>CO4</b>	Understand the transformations in the administration of colonial India.



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		<b>CO5</b>	Learn about the formation, expansion and consolidation of the Mugal Empire.
<b>AH24B</b>	<b>Freedom Movement in Tamil Nadu 1858 -1947 CE</b>	<b>CO1</b>	Gain knowledge on the origin of freedom movement in Tamil society.
		<b>CO2</b>	Gain knowledge of India’s fight for independence with special reference to Tamil Nadu and the roles of the different sections of the society.
		<b>CO3</b>	Learn to appreciate and respect the Tamil leaders and in still patriotism.
		<b>CO4</b>	Understand the vibrant role of Tamil people in the nationalist upsurge.
		<b>CO5</b>	Learn about the various associations before the emergence of the Indian National Movement.
<b>AH3AD</b>	<b>Outlines of Indian Philosophy</b>	<b>CO1</b>	Understand the morality which is the basis of human life.
		<b>CO2</b>	Know the ideas and thoughts of Indian philosophers.
		<b>CO3</b>	Develop the philosophical ideas which enrich the values of actions. It would help the students to understand the concepts of idealism, naturalism, pragmatism, realism and spiritualism.
		<b>CO4</b>	Know the ideas and thoughts of Indian Philosophers.
		<b>CO5</b>	Understand how ethics is used in several ways in life.
<b>III YEAR - V SEMESTER</b>			
<b>AH25A</b>	<b>Indian National Movement 1858-1947</b>	<b>CO1</b>	Understand about the Historical sense of Indian freedom struggle and its various ideologies.
		<b>CO2</b>	Evaluate the role Gandhi towards Indian Independence and recognize his involvement in social movements.
		<b>CO3</b>	Identify the causes that led to the rise of nationalism in India.
		<b>CO4</b>	Understand the various stages of the National Movement in India.
		<b>CO5</b>	Learn about the names of prominent leaders of the Indian National Movement.
		<b>CO1</b>	Gain knowledge about the political history of Tamil Nadu.



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AH25B	Contemporary Tamil Nadu 1947 – 2016 CE	CO2	Understand the importance of the struggle for social justice in Tamil Nadu.
		CO3	Learn about the development of education, science and technology and learn to examine contemporary issues to related to religion, caste and politics in Tamil Nadu.
		CO4	Develop knowledge of the administration of Tamil Nadu since Independence.
		CO5	Gain a deeper understanding about the various determinants of Tamil Nadu’s developments and its contribution to the national economy.
AH25C	History of Civilization (Excluding India)	CO1	Aware of the Great civilizations of the world.
		CO2	Learn a critical understanding of the contributions made by the significant civilizations of the world.
		CO3	Study various aspects of Civilizations, like Polity, Literature, Science and Arts of these Civilizations.
		CO4	Understand the functions of Indian administration.
		CO5	Get an Overview regarding the principles of organization and administration.
AH25D	History of Modern Europe 1789 -1919 CE	CO1	Understand the rise of nationalism and the formation of nation states in Europe and understand on the balance of power and diplomacy.
		CO2	Know the repercussions of the Unification of Italy and Germany and the revolutions in Europe.
		CO3	Gain a deeper understanding of the rise of Nationalism and the formation of states.
		CO4	Learn about the French revolution and its impact on Europe.
		CO5	Analyse the importance of the Unification of Italy and role of Mazzini Cavour.
AH4AA	Elective Tourism and Travel Management	CO1	Analyse the significance and growth of tourism.
		CO2	Discuss the role and trade routes of tourism.
		CO3	Discuss various tourism administrative organizations worldwide.
		CO4	Know different forms of tourism.
		CO5	Identify the current trends in tourism marketing.
III YEAR - VI SEMESTER			



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<b>AH26A</b>	<b>Contemporary India 1947- 2019</b>	<b>CO1</b>	Get a picture of how India's political and economic agenda and the basics of foreign policy have evolved and developed since independence.
		<b>CO2</b>	Development education, science and technology and dwell on the consolidation of the nation, emphasize the principles of unity and integrity.
		<b>CO3</b>	Get the awareness about the various issues and the challenges faced by India during the contemporary period.
		<b>CO4</b>	Understand the unprecedented changes since its formal independence.
		<b>CO5</b>	Get an overview the social dimensions of change and political democracy.
<b>AH26B</b>	<b>Indian Constitution</b>	<b>CO1</b>	Learn the role of the Constitution in a democratic society and get a complete knowledge about the Indian Constitution.
		<b>CO2</b>	Get an awareness of framing, drafting and implementation of Indian Constitutional Laws in the Parliament.
		<b>CO3</b>	Aware of the constitutional laws and their implications.
		<b>CO4</b>	Get an in-depth knowledge of Indian citizen's Rights and Duties.
		<b>CO5</b>	Understand the functioning of Government in India.
<b>AH26C</b>	<b>History of USA 1900- 2000CE</b>	<b>CO1</b>	Gain knowledge of the history of USA.
		<b>CO2</b>	Understand the critical past of USA and its governmental policies.
		<b>CO3</b>	Understand the foreign policy of USA in light of the global wars.
		<b>CO4</b>	Demonstrate an understanding of the rise of America as a super power.
		<b>CO5</b>	Understand the development that are taking place in the contemporary United States from a foreign historical prospective.
<b>AH4AB</b>	<b>Elective I Modern Journal : Principles Practices</b>	<b>CO1</b>	Understand the principles of modern Journalism.
		<b>CO2</b>	Understand role of the media in the development of society.
		<b>CO3</b>	Learn about the type of Journalism.
		<b>CO4</b>	Be able to identify the challenges of working as a media professional.



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		<b>CO5</b>	Learn the definition of News and understand its elements, news sources and different types of news.
<b>AH4AC</b>	<b>Elective II Environmental History of India</b>	<b>CO1</b>	Understand the basic environmental concept with an emphasis on the emergence of the Environmental History of India.
		<b>CO2</b>	Know the emphasis on Indian experience towards the environment protection movements.
		<b>CO3</b>	Understand the urban environmental problems and the various policies and schemes introduced by the government towards protection.
		<b>CO4</b>	Learn about the multidisciplinary nature of environmental studies.
		<b>CO5</b>	Learn about the natural resources, use of resources, deforestation and its impact on the environment, sustainable development and its aspects.

**DEPARTMENT OF SOCIOLOGY**

**B. A. SOCIOLOGY**

**Course Outcomes**

**2022 - 2023**





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COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR - I SEMESTER</b>			
<b>AS21A</b>	<b>Principles of Sociology - I</b>	<b>CO1</b>	The students can understand the origin and development of sociology.
		<b>CO2</b>	The students can also understand the discipline of sociology and the sociological perspective.
		<b>CO3</b>	The students can recognize how sociology differs from and is similar to other social sciences.
		<b>CO4</b>	The students can explain the different social institutions and their impact on sociology.
		<b>CO5</b>	The students can understand the process and agencies of socialization.
<b>AS21B</b>	<b>Indian Society</b>	<b>CO1</b>	The student will identify the functions of various social structures in India.
		<b>CO2</b>	The students can elaborate on the perspectives of Indian society.
		<b>CO3</b>	The student can compare the various social changes in Indian society.
		<b>CO4</b>	The students will also describe the Stratification System in society.
		<b>CO5</b>	The students can examine the social changes in India.
<b>AS31A</b>	<b>Social Psychology</b>	<b>CO1</b>	The students can explain the scope of social psychology and its relationship with other social sciences.
		<b>CO2</b>	The students can get acquisition of knowledge that goes beyond mere memorization of facts.
		<b>CO3</b>	The students can assess the different group processes and leadership patterns.
		<b>CO4</b>	The students can explain various social processes that affect the individual attitude.



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		<b>CO5</b>	The students can understand the types and causes of aggression and prejudice.
		<b>CO6</b>	The students can claim knowledge of attitudes, public opinion and propaganda.
<b>I YEAR - II SEMESTER</b>			
<b>AS22A</b>	<b>Principles of Sociology – II</b>	<b>CO1</b>	The students can understand the basic concepts in sociology.
		<b>CO2</b>	The students can summarize the fundamental theoretical interrelations and interactions in society.
		<b>CO3</b>	The students will be able to define interrelationships between Culture, Social change, Socialization, Stratification, Social processes, Institutions and Social control.
		<b>CO4</b>	The students can summarize the diverse social stratifications that function in society.
		<b>CO5</b>	The students acquire knowledge of social change and its factors.
<b>AS22B</b>	<b>Social Pathology</b>	<b>CO1</b>	The students can understand the set of phenomena of social pathology.
		<b>CO2</b>	The students will learn about prophylaxis and treatment of pathological social phenomena.
		<b>CO3</b>	The students can elaborate on the poverty-alleviation strategies in India.
		<b>CO4</b>	The students will explain the concept and consequences of terrorism.
		<b>CO5</b>	The students will explain penology and rehabilitative measures for crime and delinquency.
		<b>CO1</b>	The students can identify the cultural attributes and types of cultures.
		<b>CO2</b>	The students can differentiate primary and secondary institutions in society.



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AS32A	Social Anthropology	CO3	The students can describe how evolutionary and historical processes have shaped primates and human ancestors.
		CO4	The students can discuss human diversity and how knowledge about human diversity leads to a better understanding.
		CO5	The students can acquire knowledge of the political organization of a primitive society.
II YEAR - III SEMESTER			
AS23A	Social Thinkers-I	CO1	The students can explain the origin and development of western sociology and the contribution of classical social thinkers.
		CO2	The students will be able of sociological perspectives to explain social problems and issues.
		CO3	The students will be able to make theoretically informed recommendations to address current social problems and issues.
		CO4	The students will be able to demonstrate the ability to interpret, locate, evaluate, generate, and use sociologically relevant data to test hypotheses and draw evidence-based conclusions.
		CO5	The students will elaborate the theory of Verstehen, types of authority, protestant ethics and class, status and power.
AS23B	Social Movements in India	CO1	The students will identify the different theoretical orientations to learn about the social movements in India.
		CO2	The students can evaluate the impact of the religious reform movement in Indian society.
		CO3	The students will be able to recognize the various backward class movements and their effects on a deprived section of society.
		CO4	The students can be aware of social issues as the root cause of various social movements.



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		<b>CO5</b>	The students will elaborate about the Dalit movement, Women’s movement and new social movements.
<b>AS33A</b>	<b>Organizational Behavior</b>	<b>CO1</b>	The students will describe the general history of management theory and practice.
		<b>CO2</b>	The students can frame how organizational behavior has developed from these into a discreet field, the history of social progress in the workplace.
		<b>CO3</b>	The students will learn how an individual personality and behavior impacts the typical contemporary work experience, the history, context and utility of the distinction between leadership and management.
		<b>CO4</b>	The students will analyse the leadership styles, team building and group decision-making process.
		<b>CO5</b>	The students will understand the various types of organizational communication.
<b>II YEAR – IV SEMESTER</b>			
<b>AS24A</b>	<b>Social Thinkers-II</b>	<b>CO1</b>	The students can explain the origin and development of western sociology and the contribution of classical social thinkers.
		<b>CO2</b>	The students will be aware of sociological perspectives to explain social problems and issues.
		<b>CO3</b>	The students will be able to make theoretically informed recommendations to address current social problems and demonstrate the utility of the sociological perspective for their lives.
		<b>CO4</b>	The students will be able to demonstrate the ability to interpret, locate, evaluate, generate and use sociologically relevant data to test hypotheses and draw evidence based conclusions.
		<b>CO5</b>	The students will elaborate the theory of verstehen, types of authority, protestantic ethics and class, status and power.



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AS24B	Research Methodology and Statistics	CO1	Students will attempt to sensitize a critical outlook on the existing perspectives.
		CO2	The students will learn the methods and to evolve conceptual clarity, which can lead them in their future research.
		CO3	The students will learn the methods to collect and analyse the data and know to organize and analyse the gathered information.
		CO4	Student will learn to write a research proposal and reports.
		CO5	Student will understand the skills about Collecting Data, Writing Bibliography and Analysing Data.
AS34A	Population Studies	CO1	The students will be able to discuss the formation of nature, scope and importance of social demography.
		CO2	The students will evaluate the features of the census, vital registration, sample surveys.
		CO3	The students will analyse the malthusian theory, biological theories and theory of demographic transition.
		CO4	The students will explain population structure, fertility, mortality and migration.
		CO5	The students will appraise the policies influencing fertility and family planning in India.
III YEAR – V SEMESTER			
	Rural Sociology	CO1	The course enables the students to understand the rural context in various aspects.
		CO2	The students can understand the agrarian structure and changes that took place in the form of land reforms.
		CO3	The students can review the causes of peasant movements and their impacts on agrarian society in India.
		CO4	The students can evaluate the organized effect of peasants in India on agrarian development and progress.



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		<b>CO5</b>	Students can understand the various rural development schemes.
	<b>Urban Sociology</b>	<b>CO1</b>	The students can be aware of the recent developments in urban studies.
		<b>CO2</b>	The students will learn various governmental urban programmes for the development of the urban society.
		<b>CO3</b>	Students will be able to distinguish Micro and Macro theoretical contributions in Sociology.
		<b>CO4</b>	The students will get geographical knowledge and demographical terms will be inevitable gain and the same will be used for application methods during practical analysis.
		<b>CO5</b>	The students will learn about various slums environmental problems.
	<b>Industrial Sociology</b>	<b>CO1</b>	The students can describe the nature and scope of Industrial Sociology.
		<b>CO2</b>	The students will explain the growth of Industrialization, Industrial Revolution and its impact on society.
		<b>CO3</b>	The students can understand the changing structure of modern industrial enterprises and principles of organization.
		<b>CO4</b>	The students will describe Trade Union, Workers Participation in Management and Collective Bargaining.
		<b>CO5</b>	The students can understand the types, causes and methods of industrial conflict.
	<b>Sociology of Development</b>	<b>CO1</b>	This course explains the conceptual perspectives on social development.
		<b>CO2</b>	The course describes the Theories of Development and identifies the paths of development.
		<b>CO3</b>	The course describes the interrelationship between social structures, and development.





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		<b>CO4</b>	The students will understand the comparative analysis of sociological thinkers related to development.
		<b>CO5</b>	The course also describes the structural adjustment in India.
	<b>Gender Studies</b>	<b>CO1</b>	The students will identify the difference between sex and gender.
		<b>CO2</b>	The students will be able to understand the different perspectives on gender in society.
		<b>CO3</b>	The students critically assess the role of Women in the Freedom Struggle.
		<b>CO4</b>	The students will analyse various domestic problems and sexual harassment faced by women.
		<b>CO5</b>	The students will identify the problems faced by transgender in India.
<b>III YEAR – VI SEMESTER</b>			
	<b>Human Resource</b>	<b>CO1</b>	The students will contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes.
		<b>CO2</b>	The students will administer and contribute to the design and evaluation of the performance management program.
	<b>Management</b>	<b>CO3</b>	The students will develop, implement, and evaluate employee orientation, training, and development programs.
		<b>CO4</b>	The students can facilitate and support effective employee and labour relations in both non-union and union environments.
		<b>CO5</b>	The students will understand various assessments of training needs.
		<b>CO1</b>	The students will be able to distinguish the terms Gerontology and Geriatrics.
		<b>CO2</b>	The students will be trained to apply the theories of ageing as a problem solving technique.



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	<b>Social Gerontology</b>	<b>C03</b>	The students can interpret the psychological, economical, physical and social problems of elderly people.
		<b>C04</b>	The students can critically assess the problems of aged women in our society.
		<b>C05</b>	The students can interpret policies and legislation in India.
	<b>Sociology of Media</b>	<b>C01</b>	The students can demonstrate a basic understanding of media technologies, media forms and media institutions.
		<b>C02</b>	The students can get a basic knowledge of key theoretical approaches to the media and culture.
		<b>C03</b>	The students are enabled to understand the problems linked with the media and society.
		<b>C04</b>	The students can evaluate the effects of mass media on modernism and globalization.
		<b>C05</b>	The students can critically assess Concerns over Underrepresentation of the North East in the media.
	<b>Sociology of Religion</b>	<b>C01</b>	The students can identify the common organizational problems faced by religious movements.
		<b>C02</b>	The students can understand the relationships between religion, family, politics, the economy and education.
		<b>C03</b>	The students can understand the evolution and importance of religious groups.
		<b>C04</b>	The students can assess social change through religious change.
		<b>C05</b>	The students can understand the relationship and impact of social change and religious change.
		<b>C01</b>	The students will learn the relevance of stakeholder theory and the role and importance of CSR in 21st Century organizations.
		<b>C02</b>	The students will understand the changing role and expectations of business in society.



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	<b>Corporate Social Responsibility</b>	<b>CO3</b>	The students will learn about the extent to which business can meet the challenges of sustainable development.
		<b>CO4</b>	The students will learn how CSR is being practiced in various organizations.
		<b>CO5</b>	The students will gain knowledge of the strategic significance of CSR for business, the role and importance of non-financial reporting.



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**DEPARTMENT OF TAMIL**

**M.A TAMIL**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR - I SEMESTER</b>			
<b>HT21A</b>	<b>Ikkala Ilakkiyam – I</b>	<b>CO1</b>	Learn the literary style of traditional poetry with the history of contemporary literature.
		<b>CO2</b>	Learn and evaluate the structure of traditional poetry.
		<b>CO3</b>	Understand the trends and backgrounds of modern poetry.
		<b>CO4</b>	Understand the sociological perspective to comprehend the function and trend of various short story genres.
		<b>CO5</b>	Learn the importance of novels in contemporary literature.
<b>HT21B</b>	<b>Ara Ilakkiyam</b>	<b>CO1</b>	Learn the moral values from Thirukkural in Porutpaal from 'Kalvi' to 'Porul Seyalvagai'.
		<b>CO2</b>	Understand the morals and ethics of Thirukkural in Porutpaal from 'Natpu' to 'Ravacham'.
		<b>CO3</b>	Learn the importance of moral values in life from Naaladiyar.
		<b>CO4</b>	Understand the moral values in Naaladiyar.
		<b>CO5</b>	Learn ethical values of life from Pathinen Keezhkanakku Noolgal.
<b>HT21C</b>	<b>Sittrilakkiyam</b>	<b>CO1</b>	Learn the origin and types of Sittrilakkiyam.
		<b>CO2</b>	Understand the meaning of Thoodhu Literature.
		<b>CO3</b>	Understand the literary elements of Kuravanji Literature.
		<b>CO4</b>	Learn the specialties of Pallu literature.
		<b>CO5</b>	Understand the social status of society through Sittrilakkiyam.
		<b>CO1</b>	Learn the principles of Tholkaapiya Agathinai.



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HT21D	Tholkappiyam Porulathikaram – I	CO2	Learn the types of Tholkaapiya Purathinai.
		CO3	Understand the norms of ancient life through Kalavial.
		CO4	Learn the structured lifestyle of Tamils from Karpiyal.
		CO5	Understand the culture of ancient Tamils in Porul.
HT41A	Ayalaka Tamizh Ilakkiyam	CO1	Gain knowledge of Foreign Literature.
		CO2	Learn the history and peculiarities of Sri Lankan Tamil Literature.
		CO3	Understand the types of Malaysian Tamil Literature.
		CO4	Learn the various types of Singapore Tamil Literature.
		CO5	Understand the new dimensions of Migrant Tamil Literature.
I YEAR - II SEMESTER			
HT22A	Ikkala Ilakkiyam – II	CO1	Learn the trends in the essay genre.
		CO2	Learn the techniques and nuances in travel writing.
		CO3	Comprehend the literary content and excellence of autobiographical writing.
		CO4	Learn the themes and motifs of a drama.
		CO5	Learn and evaluate the social perspective of writing a work.
HT22B	Bakthi Ilakkiyam	CO1	Learn the themes of Saiva Bhakti literature.
		CO2	Understand the devotional quality of Saiva Bhakti literature.
		CO3	Learn the nuances of Vainava Bhakti Literature.
		CO4	Learn the specialties of individual songs in Literature.
		CO5	Learn the devotional elements of Christian and Muslim Literatures.
HT22C	Kappiyam	CO1	Learn the concepts of Silapathikaaram.
		CO2	Understand the literary nuances of Manimekalai and Seevaga Sinthamani.
		CO3	Learn the structure of epic in Kambaramayanam and Periyapuranam.
		CO4	Understand the beauty of nature in Ratchanya yaathrigam.
		CO5	Learn the principles of Seerapuranam.



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HT22D	Tholkappiyam Porulathikaram – II	CO1	Knowledge about the types of Meipaatiyal
		CO2	Learn the types of Uvamaviyal.
		CO3	Learn the Yaapilakkanam defined in Seyuliyal.
		CO4	Learn the elements of Yaapu in Seyuliyal.
		CO5	Understand the legacy of Tamils through Marabiyal.
HT42A	Podhu Mozhiyiyal	CO1	Learn the general characteristics of the language.
		CO2	Learn the basics of phonology and phonological linguistics and its structure.
		CO3	Understand the similarities and differences of Urubaniyal mozhiyiyal and marabilakkanam.
		CO4	Understand the continuing factor of the Tamil language in Thodariyal.
		CO5	Learn the types and principles of Mozhiyiyal.
HT42B	Nattar Vazhakkatriyal	CO1	Learn the origin and history of Naatarvazhakatriyal.
		CO2	Understand the methods of Field Research.
		CO3	Learn the types of Folklore Literature.
		CO4	Learn the social status of the people through Folklore Literature.
II YEAR - III SEMESTER			
	Sangam Literature – I	CO1	Gain deep knowledge of the Agapporul traditions of Sangam Literature.
		CO2	Learn the specialties and techniques of Thaini Theory and practice using it as a Tamil Literary Criticism.
		CO3	Gain deep knowledge in Perumpanatrupadai and Sirumpanatrupadai of Pattuppattu.
		CO4	Acquire deep knowledge of the Agam Literature of Ettuthuthogai, which stimulates learning literatures.
		CO5	Acquire the knowledge of Sangam Literature and attain mastery of Sangam literary principles.
		CO1	Acquire in-depth knowledge of Tholkappiam Ezhuthathigaram.





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	<b>Tholkappiam – Elutthathikaram – I</b>	<b>CO2</b>	Gain historical knowledge of Tholkappiam Ezhuthilakanam with a view to compare with Neminatha, Nannul, etc.
		<b>CO3</b>	Learn the Ezhuthilakanam Theories of Pirappiyal and Punariyal and get in-depth knowledge of the concepts of Ezhuthilaganam.
		<b>CO4</b>	Ability to approach grammatical concepts from a linguistic perspective.
		<b>CO5</b>	Understand the techniques of Tholkappiam Ezhuthilakanam and gain insight into Tamil Grammar conventions.
		<b>CO1</b>	Acquire knowledge of Tholkappiam Collathigaram.
		<b>CO2</b>	Gain historical knowledge of Tholkappiam
	<b>Tholkappiam – Collathikaram – I</b>		Collilakanam with a view to compare with Neminatha, Nannul, etc.
		<b>CO3</b>	Learn the basics of grammar, Kilaviyakkam, Vetrumaiyal, Vetrumai Mayangiyal, and Vilimarabhu in-depth, and an understanding of the theory of grammar in Tamil.
		<b>CO4</b>	Ability to approach collilakanam concepts in linguistics.
		<b>CO5</b>	Understand the Tholkappiyam Collilakanam grammar techniques.
	<b>Literary Criticism And Theories</b>	<b>CO1</b>	Understand literary criticism as a literary principle.
		<b>CO2</b>	Gain knowledge of the historical changes in Tamil literary criticism with clarity.
		<b>CO3</b>	Identify the tradition of Tamil literary criticism with the Literary principles found in the Tamil grammars (Porul, Yaapu, Ani) and the critical elements found in the texts.
		<b>CO4</b>	Learn and absorb the contributions of reviewers like D.K.C., G.N.S., C.S.Chellappa, K. Kailasapathy, K. Sivathambi, Raj Gauthaman, Tamizhavan, K. Pooranachandran, K. Panchangam etc. with technical differences.
		<b>CO5</b>	Acquire the ability to critically analyze, literature using critical thinking skills.
		<b>CO1</b>	Learn the history of social reform thoughts and recognize the contribution of pioneers.



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	<b>Periyar Studies</b>	<b>CO2</b>	Deep knowledge of Thanthai Periyar's thoughts and activities.
		<b>CO3</b>	Get rid of superstitions and rationalize and realize the need for women's rights.
		<b>CO4</b>	Know the impact of Periyar's thoughts on Tamil literature.
		<b>CO5</b>	Promote brotherhood and humanity by eradicating caste consciousness.
	<b>Comparative Literature</b>	<b>CO1</b>	Acquire in-depth knowledge of the comparative field.
		<b>CO2</b>	Train in basic principles of analogy.
		<b>CO3</b>	Acquire in-depth knowledge of relevant theories such as affect theory, typology theory, conceptual theory, etc.
		<b>CO4</b>	Acquisition of basic skills to engage and conduct research in the field of Comparative Literature.
		<b>CO5</b>	Gain strength in comparing World literature and considering peculiarities.
<b>II YEAR - IV SEMESTER</b>			
	<b>Sangam Literature – II</b>	<b>CO1</b>	Gain deep knowledge of the Purapporul traditions of Sangam Literature.
		<b>CO2</b>	Learn the specialties and techniques of Thaini Theory and practice of using it as a Tamil Literary Criticism.
		<b>CO3</b>	Gain deep knowledge in Kurinchipattu and Porunarattruppadaai of Pattuppattu.
		<b>CO4</b>	Acquire deep knowledge of Puram Literature and Paripaadal of Ettuthuthogai, that stimulates learning Literature.
		<b>CO5</b>	Acquire the knowledge in Sangam Literature and attain mastery of Sangam Literary principles in Literature.
	<b>Tholkappiam – Elutthathikaram –</b>	<b>CO1</b>	Acquire in-depth knowledge of Tholkappiam Ezhuthathigaram.
		<b>CO2</b>	Gain historical knowledge of Tholkappiam Ezhuthilakanam with a view to compare with Neminatha, Nannul, etc.
		<b>CO3</b>	Learn the Ezhuthilakanam Theories of Urubiyal, Uyir mayangiyal, Pulli Mayangiyal, and Kuttrugarap Punariyal, and get in-depth knowledge on concepts



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	<b>II</b>		of Ezhuthilaganam.
		<b>CO4</b>	Ability to approach grammatical concepts from a linguistic perspective.
		<b>CO5</b>	Understand the Techniques of Tholkappiam Ezhuthilakanam.
	<b>Tholkappiam – Collathikaram – II</b>	<b>CO1</b>	Acquire knowledge of Tholkappiam Collathigaram.
		<b>CO2</b>	Gain historical knowledge of Tholkappiam Collilakanam with a view to compare with Neminatha, Nannul, etc.
		<b>CO3</b>	Learn the basics of grammar, Peyarial, Vinaiyial, Edaiyial, Uriyial, and Echaviyal in-depth and an understanding of the theory of grammar in Tamil.
		<b>CO4</b>	Ability to approach collilakanam concepts in linguistics.
		<b>CO5</b>	Understand the Tholkappiyam Collilakanam grammar techniques.
	<b>Editing and Publishing</b>	<b>CO1</b>	Acquire specialized knowledge of Tamil editing and publishing history.
		<b>CO2</b>	In-depth knowledge of textual criticism, and ethics of editing.
		<b>CO3</b>	Acquire in-depth knowledge of the contributions of
			Arumuga Navalar, V. Vai.Thai., U.V.S.A., Vaiyapuripillai etc.
		<b>CO4</b>	Gain the knowledge and motivation to self-publish by exploring ways to enrich literary publishing.
		<b>CO5</b>	Acquire knowledge of using computers and internet for editing and publishing industry endeavors.
	<b>Research Methodology</b>	<b>CO1</b>	An introduction to various fields of Tamil studies such as archaeology, epigraphy, epigraphy, geography, grammar, lexicography, ethnology, etc., and to know the potential components of research in these fields.
		<b>CO2</b>	Gain knowledge in all aspects of research, including data collection, hypothesis, and research development.
		<b>CO3</b>	Acquire research knowledge and the use of libraries, field research protocols, and correct use of language.
		<b>CO4</b>	Learning of norms adopted by the ancient grammarians and rhetoricians, understand the research ethics of Tamil Tradition.
		<b>CO5</b>	Acquire expertise in research ethics.



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**DEPARTMENT OF ENGLISH**

**M. A. ENGLISH**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR – I SEMESTER</b>			
<b>HB21A</b>	<b>Poetry I</b>		At the end of the course students will be able to
		<b>CO1</b>	- gain ideas about the old English writing style.
		<b>CO2</b>	- gain knowledge about various forms of poetry of different centuries that can be well comprehended.
		<b>CO3</b>	-engage in close analysis of narrative and poetic language which helps in applying the technical terms.
		<b>CO4</b>	- understand the literary devices which enhance the beauty of the poem.
		<b>CO5</b>	- analyze various movements from the Middle Ages to the Restoration Age.
<b>HB21B</b>	<b>Drama I- Elizabethan and Jacobean Drama</b>	<b>CO1</b>	- a broad knowledge about the origin and development of drama.
		<b>CO2</b>	- know more about Senecan and Revenge Tragedy.
		<b>CO3</b>	- understand better about Elizabethan Theatres, theatre groups, audience actors and conventions..
		<b>CO4</b>	- analyse tragedy and comedy.
		<b>CO5</b>	- get knowledge of the Jacobean Drama.
<b>HB21C</b>	<b>Fiction I - Origins and Developments upto 18th Century</b>	<b>CO1</b>	- gain knowledge of narrative modes of fiction
		<b>CO2</b>	- understand allegorical novels and satires.
		<b>CO3</b>	- gain knowledge of New World fiction..
		<b>CO4</b>	-understand Picaresque and Middle-class novels.
		<b>CO5</b>	- understand the art of writing different forms of novel.



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HB21D	Indian Writing in English and in Translation	CO1	-get the Knowledge of Indian Writing in English and its Origin and Development
		CO2	- appreciate and analyse poems in Indian literature in English.
		CO3	- Understand diverse Culture and Literature which will further enlighten them about the Socio-Cultural Scenario in the Contemporary Era.
		CO4	-learn Indian Fiction and its growth.
		CO5	- learn the nuances of translation.
HB41A	World Classics	CO1	- understand religion, philosophy and literature.
		CO2	- Critically understand the translated version of Thirukkural.
		CO3	- understanding ancient classics and their reflection in other parts of literature is enabled for students.
		CO4	- develop an understanding of the world classics.
		CO5	- understand the growth of literature from the ancient to modern periods.
I YEAR – II SEMESTER			
HB22A	American Literature	CO1	- Familiar with the origin and development of American Literature from the time of the settlers and colonies to the postmodern and multi-cultural literature.
		CO2	- understand contextualization, language change and explication.
		CO3	- identify the key features of prose, poetry and major historical and the cultural developments of America.
		CO4	- identify literary techniques and creative uses of language in literary texts.
		CO5	- assess thematic aspects of literary texts as a part of cultural and historical movements in America.
HB22B	Poetry II	CO1	- differentiate the growth of poetry during those vital movements of English literature.
		CO2	- acquire knowledge of mock epics and satires.
		CO3	- analyze poetic devices and use them effectively.



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		<b>CO4</b>	- differentiate the poetry that flourished in different periods.
		<b>CO5</b>	- understand different types of poetry and write poetry.
		<b>CO1</b>	- understand the development of drama in various stages of English Literature.
		<b>CO2</b>	- learn theatre techniques.
<b>HB22C</b>	<b>Drama II- Restoration to Twentieth Century</b>	<b>CO3</b>	- appreciate the Irish dramatic movement and its impact.
		<b>CO4</b>	- Aspects of epic theatre and the Comedy of Menace.
		<b>CO5</b>	- gain knowledge of the development of postmodern drama.
<b>HB22D</b>	<b>Fiction II</b>	<b>CO1</b>	- understand the narrative techniques, characterization and related issues.
		<b>CO2</b>	- identify the rich cultural, social and political backdrop through fictional writings.
		<b>CO3</b>	- know the contribution of major fiction writers of English literature.
		<b>CO4</b>	- know the impact of movements on literature.
		<b>CO5</b>	- analyze the different techniques of fiction.
<b>HB42A</b>	<b>Copy Editing</b>	<b>CO1</b>	- understand the broad knowledge of the history of the publishing industry.
		<b>CO2</b>	- apply the basic and organizational structure of copyediting skills.
		<b>CO3</b>	- apply the language components in copy editing skills.
		<b>CO4</b>	- gain knowledge to enter the publishing industry through this copyediting course.
<b>HB42B</b>	<b>English for Careers</b>	<b>CO1</b>	- Understand the effective usage of English technically in the appropriate places of business and management.
		<b>CO2</b>	- Analyze the necessary competence required for editing Newsletters and Press Releases.
		<b>CO3</b>	- know content writing and other communicative skills.
		<b>CO4</b>	- understand the techniques of writing for a website
<b>II YEAR - III SEMESTER</b>			
		<b>CO1</b>	- examine the development of Shakespeare's art and contribution to literature and culture





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<b>HBB3A</b>	<b>Shakespeare Studies</b>	<b>CO2</b>	- analyze texts to determine Shakespeare's purpose, historical and cultural perspective and use of rhetorical and dramatic strategies in creating a play and/ or poem.
		<b>CO3</b>	- understand the historical facts and comic elements in the prescribed plays.
		<b>CO4</b>	- identify and analyze the social and ethical questions the plays raise regarding human experiences.
		<b>CO5</b>	- analyze how the philosophical and intellectual viewpoints of the English Renaissance shaped Shakespeare's writing and their application today.
<b>HBB3B</b>	<b>English Language and Linguistics</b>	<b>CO1</b>	- differentiate speech sounds system with a detailed description of the mechanism involved in the production of sounds.
		<b>CO2</b>	- enriched with the knowledge of linguistics with the focus on the historical perspective of the language.
		<b>CO3</b>	- understand the approaches and methods in Teaching English as Second Language.
		<b>CO4</b>	- focuses on the curriculum development and introduces the assessment process involved.
		<b>CO5</b>	- get knowledge related to the digital learning and the research process.
<b>HBB3C</b>	<b>Literary Criticism and Literary Theory</b>	<b>CO1</b>	- introduced to the concepts in Literary Criticism and Literary Theory.
		<b>CO2</b>	- trace the origin and tradition of Literary Criticism.
		<b>CO3</b>	- focus on the individual and humanistic approaches in criticism.
		<b>CO4</b>	- know the formalistic and structuralistic approaches.
		<b>CO5</b>	- understand the 20th century approaches in Literary Criticism.
<b>HBB3D</b>	<b>Introduction to Translation Studies</b>	<b>CO1</b>	- understand the basic skills in translation.
		<b>CO2</b>	- Critically understand the various cultural aspects.
		<b>CO3</b>	- analyse and study various text and its translations that will lead the students towards a comparative study.
		<b>CO4</b>	- develop awareness on basic concepts of translation.
		<b>CO5</b>	- apply learned skills of translation in practical approach.



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<b>HBBXB</b>	<b>Literature, Analysis, Approaches and Copy Editing</b>	<b>CO1</b>	- understand the practical knowledge and the language use with critical skills.
		<b>CO2</b>	- analyze the text with practical criticism.
		<b>CO3</b>	- develop the art of writing summaries.
		<b>CO4</b>	- learn the nuances in writing abstracts and brochures.
		<b>CO5</b>	- develop an efficient writing skill.
<b>II YEAR- IV SEMESTER</b>			
<b>HBB4A</b>	<b>Twentieth Century poetry</b>	<b>CO1</b>	- understand the various aspects of British 20 <sup>th</sup> Century Poetry.
		<b>CO2</b>	-understand the various aspects of British 20 <sup>th</sup> Century Poetry.
		<b>CO3</b>	- understand the various social issues that influenced British 20 <sup>th</sup> Century Poetry.
		<b>CO4</b>	- understand the various schools of thought.
		<b>CO5</b>	-read texts closely, and know how to read both formal and thematic aspects of texts as part of larger cultural and historical movements.
<b>HBB4B</b>	<b>Writings By and On Women</b>	<b>CO1</b>	- understand women's issues.
		<b>CO2</b>	- analyze the major themes and struggles voiced out by the women poets.
		<b>CO3</b>	- explore the cause of women's problems.
		<b>CO4</b>	- understanding women's struggles in different places and in different ages.
		<b>CO5</b>	- know the anguish and subjugation of women through the analysis of the texts.
<b>HBB4C</b>	<b>English Literature for UGC NET/SET Examination</b>	<b>CO1</b>	- face the objective exams without tension.
		<b>CO2</b>	- take up exams with confidence.
		<b>CO3</b>	- understanding the various movements in English Literature.
		<b>CO4</b>	- comprehend the question pattern to get through competitive exams.
		<b>CO5</b>	- Practice in objective exam pattern will ease the students' tension while taking the real NET and SET exams.
<b>HBB4D</b>	<b>Film Studies</b>	<b>CO1</b>	- develop a broad knowledge of film history, national cinemas.
		<b>CO2</b>	- understand the kinds of films and film-making art.
		<b>CO3</b>	- understand the pre-production, production, and postproduction filmmaking process.
		<b>CO4</b>	- write critical reviews and create their own scripts.



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**DEPARTMENT OF COMMERCE**

**M. Com COMMERCE**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>KD21A</b>	<b>Advanced Corporate Accounting and Accounting Standards</b>	<b>CO1</b>	Explain the accounting treatment adopted for raising funds and redeeming the funds.
		<b>CO2</b>	Illustrate the Acquisition, Amalgamation and Reconstruction (internal & external) Schemes of Companies.
		<b>CO3</b>	Construct final accounts of Joint Stock Companies.
		<b>CO4</b>	Explain the methods of preparing statements for liquidation of companies.
		<b>CO5</b>	Outline the accounting standards prescribed by Generally Accepted Accounting Principles and Practices (GAAP) recommended by the ICAI – Mandatory Accounting Standards (AS) issued by the ICAI.
<b>KD21B</b>	<b>Financial Management</b>	<b>CO1</b>	Develop the scope of financial management in functional areas of business and corporate.
		<b>CO2</b>	Solve problems relating to the capital structure and types of leverages to take financial decisions.
		<b>CO3</b>	Determine the cost of capital and choose appropriate dividend theories to cope with market conditions.
		<b>CO4</b>	Analyse various investment options to make investment decisions.
		<b>CO5</b>	Analyze the elements of working capital management for an efficient management of short term finance.
<b>KD21C</b>	<b>Organizational Behaviour</b>	<b>CO1</b>	Infer the organizational behaviour needs and approaches in global scenario.
		<b>CO2</b>	Identify the progress and challenges in organizational change management and the role of politics.
		<b>CO3</b>	Explain the organizational communication and types of stress management.
		<b>CO4</b>	Compare the organizational culture and its effectiveness.



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		<b>CO5</b>	Illustrate the systems approach to change, intervention strategy model, total project management model organize the organizational change in management.
<b>KD21D</b>	<b>Managerial Economics</b>	<b>CO1</b>	Illustrate the applications of managerial economics in business decision making.
		<b>CO2</b>	Outline the economic principles and best practices in business.
		<b>CO3</b>	Demonstrate how to estimate demand on the basis of available data.
		<b>CO4</b>	Explain how to make price and quantity competition decisions in various market structures.
		<b>CO5</b>	Analyze various pricing methods and approaches.
<b>KD41B</b>	<b>Strategic Human Resource Management and Development</b>	<b>CO1</b>	Explain the strategic framework human resource management and human resource development.
		<b>CO2</b>	Explain the HR policies and procedures of E - Employee profile, E- selection and recruitment
		<b>CO3</b>	Outline the cultural aspects of domestic and international HRM.
		<b>CO4</b>	Interpret career management concepts and build career development models
		<b>CO5</b>	Outline the role of HR in coaching and counseling employees.
<b>I YEAR - II SEMESTER</b>			
	<b>Advanced Cost and Management Accounting</b>	<b>CO1</b>	Outline the concepts of cost accounting principles and cost control techniques.
		<b>CO2</b>	Apply the accounting procedure of product costing and process costing to prepare the accounts of the manufacturing industries.
		<b>CO3</b>	Apply the techniques of marginal costing & cost volume profit analysis in Business Decision making.
		<b>CO4</b>	Analyse the standard cost and variance in cost estimation control.
		<b>CO5</b>	Apply costing techniques and interpret financial statements for making financial decisions.
		<b>CO1</b>	Illustrate quantitative methods and statistical tools for business problems.
		<b>CO2</b>	Explain the application of statistics in business decision making.



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	Quantitative Techniques for Business Decisions	CO3	Choose appropriate statistical methods for data analysis.
		CO4	Analyse the data using descriptive and inferential statistics.
		CO5	Interpret the statistical results to make meaningful decisions.
		CO1	Explain the concepts of corporate governance, CSR and its implications.
		CO2	Compare and contrast the principles of governance in various sectors.
	Corporate Laws	CO3	Identify the functional procedures of companies with SEBI regulations.
		CO4	Examine the legal frameworks of The Competition Act 2002, Foreign Exchange Management Act 1999.
		CO5	Infer the legal frameworks of Information Technology Act 2000.
	Industrial Relations & Labour Welfare	CO1	Explain the role of management and unions in the promotion of industrial relations.
		CO2	Outline the important causes & impact of industrial disputes and settlement procedures.
		CO3	Demonstrate the judicial setup of Labour Laws, the features of welfare and wage legislations.
		CO4	Inspect the social security measures and labour welfare under Labour Laws.
		CO5	Interpret the different categories of labor, economic assistance, and social protection.
	Total Quality Management	CO1	Explain the quality of control applications with cost benefits.
		CO2	Classify the inspection method and value engineering concepts.
		CO3	Relate the theory of sampling inspection.
		CO4	Interpret the quality improvement techniques and control system.
		CO5	Illustrate the ISO model, implementation of ISO 9000, HRM and quality circles, Environment Management System and Total Quality Control.
II YEAR - III SEMESTER			
		CO1	Outline the basic concept of Research, the steps involved in the research, and the research problem.
		CO2	Demonstrate the formulation of hypothesis, sampling techniques, and sample size determination.





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	<b>Research Methodology</b>	<b>CO3</b>	Infer the methods of data collection, construction of questionnaire, tools for data collection, testing validity, and reliability.
		<b>CO4</b>	Analyse and interpret data, through statistical applications.
		<b>CO5</b>	Apply the methods of report writing in preparing the report.
	<b>Information Technology for Business</b>	<b>CO1</b>	Define the fundamentals of computer.
		<b>CO2</b>	Explain the computerizations in Banks.
		<b>CO3</b>	Apply the methods in electronic funds transfer and document handling systems.
		<b>CO4</b>	Examine the use of computer in additional banking applications.
		<b>CO5</b>	Apply the software applications like WordStar, Lotus 123, dbase III+, Graphics in Real time Project.
	<b>Income Tax Law and Practice</b>	<b>CO1</b>	Construct the computation of income from on different sources.
		<b>CO2</b>	Apply the gains earned or loss occurred from the transfer of capital assets.
		<b>CO3</b>	Identify the permissible inter-source and inter-head adjustments and provisions to arrive at the total income of an assessed.
		<b>CO4</b>	Construct the Gross Total Income, Total Income and the tax liability of an individual.
		<b>CO5</b>	Outline the domestic and international transfer pricing under Income Tax Law 1961.
	<b>Marketing of Services</b>	<b>CO1</b>	Demonstrate the similarities and differences between service-based and physical-based product activities.
		<b>CO2</b>	Illustrate the challenges and marketing issues in a changing technological landscape.
		<b>CO3</b>	Interpret the extended marketing mix for services.
		<b>CO4</b>	Explain the overall marketing environment of financial services.
		<b>CO5</b>	Relate the technological and human issues relating to the implementation of CRM in the organization.
		<b>CO1</b>	Identify Consumer Behaviour models.
		<b>CO2</b>	Examine the impact of psychological variables, including perception, learning, motivation, personality and attitudes on Consumer's behaviour





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	<b>Consumer Behaviour</b>	<b>CO3</b>	Demonstrate the impact of various social variables, such as culture, subcultures, family/household and reference groups, on consumer's purchasing patterns
		<b>CO4</b>	Interpret the consumer decision-making process.
		<b>CO5</b>	Explain family and household decision-making process.
	<b>Corporate Governance &amp; Social Responsibility</b>	<b>CO1</b>	Explain the fundamentals of ethics and its implications in business.
		<b>CO2</b>	Interpret the concepts of ethics in advertisement and environmental issues.
		<b>CO3</b>	Demonstrate the corporate social responsibility and promoting corporate responsiveness.
		<b>CO4</b>	Interpret the concepts of corporate governance and identify the board mechanism.
		<b>CO5</b>	To outline the formation of the Birla Committee Report and its recommendations.
<b>II YEAR - IV SEMESTER</b>			
	<b>Management Information Systems</b>	<b>CO1</b>	Explain the concept of MIS and its evolution.
		<b>CO2</b>	Demonstrate DBMS and its recent trends.
		<b>CO3</b>	Interpret Information system, its maintenance and implementation.
		<b>CO4</b>	Explain transaction processing system and the essence of Artificial Intelligence.
		<b>CO5</b>	Outline functional information system and its implications.
	<b>Investment Analysis and Portfolio Management</b>	<b>CO1</b>	Describe the overview of investments and identify the various financial instruments.
		<b>CO2</b>	Apply the relationship between risk and return, to solve problems related to time value of money.
		<b>CO3</b>	Categorize the securities and their valuation to interpret the fundamental and technical analysis of derivatives.
		<b>CO4</b>	Illustrate the theories of portfolio management and SEBI regulations.
		<b>CO5</b>	Apply the theories relating to portfolio management & portfolio risk & return.
		<b>CO1</b>	Explain the features, and benefits of GST.
		<b>CO2</b>	Describe the important definitions on GST.



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	<b>Indirect Taxes</b>	<b>CO3</b>	Outline the registration procedure relating to GST.
		<b>CO4</b>	Explain the various aspects of assessment of GST.
		<b>CO5</b>	Outline the important provisions of Customs Duty.
	<b>Digital Banking</b>	<b>CO1</b>	Critically compare, contrast evaluate the different machine learning techniques in terms of their applicability to solving problems in banking sector.
		<b>CO2</b>	To explain present major economic and technical changes are undergoing in industrial and financial revolution through the new information-processing technology.
		<b>CO3</b>	Students will be able to understand the various types of e-cash.
		<b>CO4</b>	Enable students to understand the electronic clearing services- SWIFT.
		<b>CO5</b>	Facilitates the students to know about the challenges and opportunities in e-banking.



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**DEPARTMENT OF MATHEMATICS**

**M.Sc. MATHEMATICS**

**Course Outcomes**

<b>2022 - 2023</b>			
<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>COS</b>	<b>COURSE OUTCOMES</b>
<b>I YEAR - I SEMESTER</b>			
<b>MP21A</b>	<b>Algebra I</b>	<b>CO1</b>	Understand linear transformations and represent in matrix form.
		<b>CO2</b>	Compute minimal polynomial and characteristic polynomial of linear transformation.
		<b>CO3</b>	Find applicability of the inner product spaces.
		<b>CO4</b>	Outline and formulate the theory of the course to solve variety of problems at an appropriate level of difficulty.
		<b>CO5</b>	Examine bi-linear and Jordan canonical forms.
<b>MP21B</b>	<b>Real Analysis I</b>	<b>CO1</b>	Analyse and evaluate functions of bounded variation and total variation.
		<b>CO2</b>	Describe the concept of Riemann-Stieltjes integral and its properties.
		<b>CO3</b>	Demonstrate the concept of existence of Riemann-Stieltjes integrals and Lebesgue criterion for the existence of Riemann integrals.
		<b>CO4</b>	Construct the various mathematical proofs using the properties of Infinite Series and infinite products, double sequences and double series.
		<b>CO5</b>	Formulate the concept and properties of uniform convergence and continuity, the Cauchy condition for uniform convergence and uniform convergence of infinite series of functions.
<b>MP21C</b>	<b>Ordinary Differential Equations</b>	<b>CO1</b>	Establish the qualitative behaviour of solutions of systems of differential equations.
		<b>CO2</b>	Recognize the physical phenomena modeled by differential equations and dynamical systems.
		<b>CO3</b>	Analyse solutions using appropriate methods and give examples.
		<b>CO4</b>	Formulate Green's function for boundary value problems.



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		<b>CO5</b>	Understand and use various theoretical ideas and results that underlie the Mathematics in this course.
		<b>CO1</b>	Understand the basic concepts in graph theory.
		<b>CO2</b>	Apply the understanding and use it to model real life situations.
<b>MP21D</b>	<b>Graph Theory</b>	<b>CO3</b>	Apply the concepts of connectivity, Euler and Hamilton cycles in the real life situations.
		<b>CO4</b>	Identify and develop the applications of planarity and colourability.
		<b>CO5</b>	Create graph models in network and computing.
<b>MP41C</b>	<b>Fuzzy Sets and Applications</b>	<b>CO1</b>	Understand the basic concept of fuzzy sets, properties and operations like fuzzy complementation, fuzzy intersection and fuzzy union.
		<b>CO2</b>	Acquire knowledge about fuzzy graphs, compositions and fuzzy transitive closure.
		<b>CO3</b>	Acquires knowledge about fuzzy relations and its properties.
		<b>CO4</b>	Able to recognize fuzzy logic membership and its domain.
		<b>CO5</b>	Analyse the composition and can do the operations of fuzzy numbers.
<b>I YEAR II SEMESTER</b>			
<b>MP22A</b>	<b>Algebra II</b>	<b>CO1</b>	Prove theorems applying algebraic ways of thinking.
		<b>CO2</b>	Connect groups with graphs and understanding about Hamiltonian graphs.
		<b>CO3</b>	Compose clear and accurate proofs using the concepts of Galois theory.
		<b>CO4</b>	Bring out insight into abstract algebra with focus on axiomatic theories.
		<b>CO5</b>	Demonstrate knowledge and understanding of fundamental concepts including extension fields, algebraic extensions, finite fields, class equations and Sylow’s theorems.
<b>MP22B</b>	<b>Real Analysis II</b>	<b>CO1</b>	Understand and describes the basic concepts of Fourier series and Fourier Integrals with respect to orthogonal system.
		<b>CO2</b>	Analyse the representation and convergence problems of Fourier series.
		<b>CO3</b>	Analyse and evaluate the difference between transforms of various functions.
		<b>CO4</b>	Formulate and evaluate complex contour integrals directly and by the fundamental theorem.



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		<b>CO5</b>	Apply the Cauchy integral theorem in its various versions to compute contour integrals.
<b>MP22C</b>	<b>Partial Differential Equations</b>	<b>CO1</b>	Recognize the major classification of PDEs and the qualitative differences between the classes of equations.
		<b>CO2</b>	Demonstrate modelling assumptions and derivations that lead to PDEs.
		<b>CO3</b>	Be critically competent in solving linear PDEs using classical solution methods.
		<b>CO4</b>	Use knowledge of partial differential equations for modelling
			the general structure of solutions and using analytic methods for solutions.
		<b>CO5</b>	Investigate and solve boundary values problems and point out its significance.
<b>MP22D</b>	<b>Probability Theory</b>	<b>CO1</b>	Analyze and describe various modes of convergence concepts.
		<b>CO2</b>	Classify the concept of law of large numbers and weak law of large numbers.
		<b>CO3</b>	Illustrate the simple problems.
		<b>CO4</b>	Construct various mathematical proofs using the properties of mathematical expectations.
		<b>CO5</b>	Explain the concept of Markovian property and Martingale.
<b>MP42B</b>	<b>Mathematical Programming</b>	<b>CO1</b>	Understand the basic concepts of different types of integer linear programming problems and branch and bound method.
		<b>CO2</b>	Learn to determine the dynamic programming problems.
		<b>CO3</b>	Understand the concept of classical optimization problems and nonlinear programming problems.
		<b>CO4</b>	Learn the linear programming problems and parametric linear programming problems.
		<b>CO5</b>	Understand the concepts of goal programming problems.
<b>MP32B</b>	<b>Programming In C++</b>	<b>CO1</b>	Understand tokens, expressions, and control structures.
		<b>CO2</b>	Apply and analyse about functions in C++.
		<b>CO3</b>	Analyse the concepts of classes and objects in C++.
		<b>CO4</b>	Learn how to use constructors and destructors.
		<b>CO5</b>	Understand operator overloading.
<b>II YEAR III SEMESTER</b>			
		<b>CO1</b>	Analyse and evaluate local properties of analytical functions and definite integrals.



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	<b>Complex Analysis I</b>	<b>CO2</b>	Demonstrate the concept of the general form of Cauchy's theorem.
		<b>CO3</b>	Describe the concept of definite integrals and harmonic functions.
		<b>CO4</b>	Develop Taylor and Laurent's series.
		<b>CO5</b>	Explain the infinite products, canonical products and Jensen's formula.
	<b>Topology</b>	<b>CO1</b>	Illustrate the concept of topological spaces and the basic definitions of open sets, neighborhood, interior, closure and their axioms.
		<b>CO2</b>	Understand continuity, compactness, connectedness homeomorphism and topological properties.
		<b>CO3</b>	Understand the concept of normal, regular, completely regular spaces.
		<b>CO4</b>	Define product and box topologies and understand the concept of Tychonoff theorem.
		<b>CO5</b>	Get the knowledge of homotopy of paths and the fundamental group.
	<b>Operations Research</b>	<b>CO1</b>	Understand the concept of decision theory and to represent the problems in the form of decision tree.
		<b>CO2</b>	Demonstrate the concept of network models.
		<b>CO3</b>	Analyse, evaluate and construct deterministic inventory control model and probabilistic inventory control model.
		<b>CO4</b>	Describe the concept of Queueing theory.
		<b>CO5</b>	Explain the concept of replacement and maintenance models.
	<b>Mechanics</b>	<b>CO1</b>	Know about the mechanical system and types of constraints.
		<b>CO2</b>	Acquire knowledge about ignorable coordinates and Lagrange's equation of holonomics and non holonomic system.
		<b>CO3</b>	Learn about the principle of least action.
		<b>CO4</b>	Know about Hamilton Jacobi theory.
		<b>CO5</b>	Get knowledge of canonical transformation and special transformation.
	<b>Number Theory and Cryptography</b>	<b>CO1</b>	Understand the fundamental concepts of divisibility and Euclidean algorithm.
		<b>CO2</b>	Acquire the skill to solve simultaneous congruences.
		<b>CO3</b>	Explain briefly the concepts of finite fields, quadratic residues and reciprocity.
		<b>CO4</b>	Demonstrate competency in encrypting and decrypting messages through different methods





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		<b>CO5</b>	Understand the fundamental algorithms for public key cryptography.
	<b>Java Programming</b>	<b>CO1</b>	Understand the concepts of Java tokens and Java statements.
		<b>CO2</b>	Understand the concepts of constants, variables and data types.
		<b>CO3</b>	Understand the operators and expression.
		<b>CO4</b>	Analyse various decision making and branching statements.
		<b>CO5</b>	Learn about the basic concepts of object-oriented programming language like objects, classes, inheritance, arrays.
<b>II YEAR IV SEMESTER</b>			
	<b>Complex Analysis II</b>	<b>CO1</b>	Analyse and evaluate Riemann Zeta Function and Normal Families.
		<b>CO2</b>	Describe the concept of Riemann Mapping Theorem.
		<b>CO3</b>	Demonstrate the concept of Simply periodic functions and Doubly periodic functions.
		<b>CO4</b>	Explain the families of analytic functions.
		<b>CO5</b>	Develop the concept of the analytic continuation.
	<b>Differential Geometry</b>	<b>CO1</b>	Explain space curves, curves between surfaces, and metrics on a surface, fundamental form of a surface and Geodesics.
		<b>CO2</b>	Evaluate these concepts with related examples.
		<b>CO3</b>	Compose problems on geodesics.
		<b>CO4</b>	Recognize applicability of developable.
		<b>CO5</b>	Construct and analyze the problems on curvature and minimal surfaces.
	<b>Functional Analysis</b>	<b>CO1</b>	Understand the Banach spaces and Transformations on Banach Spaces.
		<b>CO2</b>	Prove Hahn Banach theorem and open mapping theorem.
		<b>CO3</b>	Describe operators and fundamental theorems.
		<b>CO4</b>	Validate orthogonal and orthonormal sets.
		<b>CO5</b>	Analyze and establish the regular and singular elements.
	<b>Fluid Dynamics</b>	<b>CO1</b>	Learn the concept of Kinematics of fluid in motion.
		<b>CO2</b>	Acquire the method of equations of motion of a fluid.
		<b>CO3</b>	Know about three dimensional flows.



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		<b>CO4</b>	Learn about two dimensional flows.
		<b>CO5</b>	Acquire knowledge about viscous flows.
	<b>Calculus of Variation and Integral Equations</b>	<b>CO1</b>	Use Euler-Lagrange equation or its first integral to find differential equations for stationary paths and solve simple initial and boundary value problems by using several independent variables of calculus.
		<b>CO2</b>	Solve variational problems with a movable boundary for a functional dependent on two functions and reflection and refraction of extremals and diffraction of light rays. Discuss the sufficient conditions for an extremum.
		<b>CO3</b>	Solve variational problems involving conditional extremum, constraints involving several variables and their derivatives, Isoperimetric problems.
		<b>CO4</b>	Learn the conversion of Volterra Equation to ODE, IVP and BVP to integral equation.
		<b>CO5</b>	Acquire knowledge and skills to understand the Fredholm's first, second and third theorem, integral equations with symmetric kernel, Eigen function expansion, Hilbert-Schmidt theorem.



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**DEPARTMENT OF COMPUTER SCIENCE**

**M.Sc. COMPUTER SCIENCE**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
I YEAR - I SEMESTER			
CS21A	Advanced Data Structure and Algorithms	CO1	Analyze programming problem statements.
		CO2	Comprehend and select algorithm design approaches in a problem specific manner.
		CO3	Choose appropriate data structures for a specific problem.
		CO4	Utilize necessary mathematical abstractions to solve problems.
		CO5	Come up with analysis of efficiency and proofs of Correctness.
CS21B	Advanced Python Programming	CO1	Be able to program decorators, closures, lambda, iterators and generator comprehensions in OOP.
		CO2	Learn modern data structures to include collections, array, and queues.
		CO3	Use platform independent file manipulation, file pattern matching using CSV, HTML, XML, JASON.
		CO4	Be able to set up a client-server program and also multiprocessing applications.
		CO5	Be able to use python as an analytical and presentation tool.
CS21C	Artificial Intelligence	CO1	Solve basic AI based problems.
		CO2	Define the concept of Artificial Intelligence.
		CO3	Apply AI techniques to real-world problems to develop intelligent systems.
		CO4	Select appropriately from a range of techniques when implementing intelligent systems.
		CO5	Possess the basic knowledge of different machine learning techniques.
		CO1	Design and analyze programming problem statements.



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CS211	Practical – I Data Structure and Algorithms Lab	CO2	Choose appropriate data structures and algorithms, understand the ADT/libraries, and use it to design algorithms for a specific problem.
		CO3	Be familiar with programming language constructs available for rapid application development.
		CO4	Understand the necessary programmatic abstraction to solve problems.
		CO5	Gain the capacity to solve real life problems by matching to the available algorithms.
CS212	Practical - II Advanced Python Programming Lab	CO1	Apply exception handling and user defined exception(s) Develop Module(s) and Package(s) in python.
		CO2	Possess an ability to write database applications in Python.
		CO3	Implement Object Oriented concepts in programming and apply collection modules for the data types.
		CO4	Possess the Object-oriented programming skills in Python and the skill to design graphical-user interfaces (GUI) in Python.
		CO5	Make use of Pandas and Numpy Libraries.
CS31A	Theory of Computations	CO1	Use the concepts and techniques of Discrete Mathematics for theoretical Computer Science.
		CO2	Design Finite Automata for different Regular Expressions and Languages.
		CO3	Identify and use different formal languages and their relationship.
		CO4	To solve various problems of applying normal form techniques, push down automata and Turing Machines.
		CO5	Analyze various concepts of undecidability and Computable Function and discuss analytically and intuitively for problem-solving situation.
I YEAR - II SEMESTER			



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<b>CS22A</b>	<b>Machine Learning</b>	<b>CO1</b>	Recognize the characteristics of machine learning strategies.
		<b>CO2</b>	Apply various supervised learning methods to appropriate problems.
		<b>CO3</b>	Identify and integrate more than one technique to enhance the performance of learning.
		<b>CO4</b>	Create probabilistic and unsupervised learning models for handling unknown pattern.
		<b>CO5</b>	Analyze the co-occurrence of data to find interesting frequent patterns. Preprocess the data before applying to any real-world problem and can evaluate its performance.
<b>CS22B</b>	<b>Advanced Networks</b>	<b>CO1</b>	Differentiate between different LAN-based forwarding devices so that they can make thoughtful suggestions on how to build a network.
		<b>CO2</b>	Select appropriate transport protocol and quality of service mechanisms for a given computer network
		<b>CO3</b>	Write networking code that uses TCP and UDP in client-server applications.
		<b>CO4</b>	Design and implement networking protocols.
		<b>CO5</b>	Design and implement networking applications.
<b>CS221</b>	<b>Practical - III Machine Learning Lab</b>	<b>CO1</b>	Understand the implementation procedures for the machine learning algorithms.
		<b>CO2</b>	Design Java/Python programs for various Learning algorithms.
		<b>CO3</b>	Apply appropriate data sets to the Machine Learning algorithms.
		<b>CO4</b>	Identify and apply Machine Learning algorithms to solve real world problems.
		<b>CO5</b>	Be capable of confidently applying common MachineLearning algorithms in practice and implementing their own.
<b>CS243</b>	<b>Practical - IV Digital Image</b>	<b>CO1</b>	Use image processing tools.
		<b>CO2</b>	Perform image manipulation operations.
		<b>CO3</b>	Perform image enhancement techniques.
		<b>CO4</b>	Perform edge detection operations.



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	Processing Lab	CO5	Possess ability to perform object recognition methods.
CS32A	Principles of Compiler Design	CO1	Understand the different phases of the compiler.
		CO2	Design a lexical analyzer for a sample language.
		CO3	Apply different parsing algorithms to develop the parsers for a given grammar.
		CO4	Design and implement a scanner and a parser using LEX and YACC tools.
		CO5	Learn to implement code optimization techniques and a simple code generator.
CS42A	Elective - I Cloud Computing	CO1	Understand the evolution, principles, and benefits of Cloud Computing in order to assess existing cloud infrastructures to choose an appropriate architecture that meets business needs.
		CO2	Decide a suitable model to capture the business needs by interpreting different service delivery and deployment models.
		CO3	Understand virtualization foundations to cater the needs of elasticity, portability and resilience by cloud service providers.
		CO4	Infer architectural style, work flow of real-world applications and to implement the cloud applications using map reduce programming models.
		CO5	Compare operation and economic models of various trending cloud platforms prevailing in IT industry.
CS42G	Elective-II Digital Image Processing	CO1	Know and understand the basics and fundamentals of digital image processing, such as digitization, sampling, quantization, and 2D-transforms.
		CO2	Operate on images using the techniques of smoothing, sharpening and enhancement.
		CO3	Perform the restoration concepts and filtering techniques.
		CO4	Demonstrate the segmentation, features extraction, compression and recognition methods for color models.
		CO5	Compress images and use tools for image recognition.
II YEAR - III SEMESTER			





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	<b>Parallel and Distributed Computing</b>	<b>CO1</b>	Develop and apply knowledge of parallel and distributed computing techniques and methodologies.
		<b>CO2</b>	Apply design, development, and performance analysis of parallel and distributed applications.
		<b>CO3</b>	Use the application of fundamental Computer Science methods and algorithms in the development of parallel applications.
		<b>CO4</b>	Explain the design, testing, and performance analysis of a software system, and to be able to communicate that design to others.
		<b>CO5</b>	Understand the requirements for programming parallel systems and how they can be used to facilitate the programming of concurrent systems.
	<b>Deep Learning and Neural Networks</b>	<b>CO1</b>	Understand different methodologies to create applications using deep nets.
		<b>CO2</b>	Identify and apply appropriate deep learning algorithms for analyzing the data for a variety of problems.
		<b>CO3</b>	Implement different deep learning algorithms.
		<b>CO4</b>	Design the test procedures to assess the efficacy of the developed model.
		<b>CO5</b>	Combine several models in to gain better results.
	<b>Cryptography</b>	<b>CO1</b>	Analyze the cryptographic algorithms for information security.
		<b>CO2</b>	Identify the authentication schemes for membership authorization.
		<b>CO3</b>	Identify computer and network security threats, classify the threats and develop a security model for detect and mitigate the attacks.
		<b>CO4</b>	Identify the requirements for secure communication and challenges related to the secure web services.
		<b>CO5</b>	Ability to identify the need of ethical and professional practices, risk management using emerging security solutions.
	<b>Distributed Database Systems</b>	<b>CO1</b>	Apply various fragmentation techniques given in a problem.
		<b>CO2</b>	Analyse and calculate the cost of enforcing semantic integrity control.
		<b>CO3</b>	Use the steps of query processing.



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		<b>C04</b>	Apply optimization techniques are applies to Distributed Database.
		<b>C05</b>	Apply effectively Query Optimization Algorithms.
	<b>Agile Software Engineering</b>	<b>C01</b>	Realize the importance of interacting with business stakeholders in determining the requirements for a software system.
		<b>C02</b>	Perform iterative software development processes: how to plan them, how to execute them.
		<b>C03</b>	Point out the impact of social aspects on software development success.
		<b>C04</b>	Develop techniques and tools for improving team collaboration and software quality.
		<b>C05</b>	Perform Software process improvement as an ongoing task for development teams. Show how agile approaches can be scaled up to the enterprise level.
	<b>Deep Learning Lab</b>	<b>C01</b>	Understand different methodologies to create application using deep nets.
		<b>C02</b>	Identify and apply appropriate deep learning algorithms for analyzing the data for variety of problems.
		<b>C03</b>	Implement different deep learning algorithms.
		<b>C04</b>	Design the test procedures to assess the efficacy of the developed model.
		<b>C05</b>	Combine several models in to gain better results.
<b>II YEAR - IV SEMESTER</b>			
	<b>Project &amp; Viva-Voce</b>	<b>C01</b>	Construct a project from initial ideas.
		<b>C02</b>	Plan, schedule, monitor and control their work.
		<b>C03</b>	Defend their ideas in discussions and presentations.
		<b>C04</b>	Use libraries and other information resources.
		<b>C05</b>	Apply tools and techniques from the courses. Communicate their findings through a written report.



DEPARTMENT OF HUMAN RESOURCE MANAGEMENT

M.A HRM

Course Outcomes

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
I YEAR - I SEMESTER			
HR21A	Managerial Concepts and Business Ethics	CO1	Possess knowledge of the basic concepts of management and understand how an organization functions.
		CO2	Possess knowledge of scope and types of planning along with decision-making techniques and process.
		CO3	Have insights on various functions of organizing, managing change and innovation.
		CO4	Learn concepts of coordination and controlling techniques.
		CO5	Have better understanding of business ethics and corporate social responsibility.
HR21B	Organizational Behavior	CO1	Possess knowledge of the basic concepts of organizational behavior and understand how an organization functions.
		CO2	Possess knowledge of various types of attitudes, values, perceptions and types and traits of personality.
		CO3	Have insights on Concepts on Learning and Motivation.
		CO4	Learn about Group Dynamics and inter- personal communication & its impact on performance and decision making.
		CO5	Have better understanding of leadership, power and politics & conflict and negotiation along with their types and processes.
HR21C	Human Resource Management	CO1	Possess the knowledge on the basic concepts and models of HRM.
		CO2	Possess knowledge of human resources planning, job analysis, recruitment and selection process, various placements, till their exit.
		CO3	Have insights on the importance of trainingand development& performance appraisal and its methods.



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		<b>CO4</b>	To have an understanding of the fundamentals of the job evaluation process, compensation techniques and its performance.
		<b>CO5</b>	Have better understanding of HR Accounting & HR Audit practices.
<b>HR21D</b>	<b>Labour Legislations</b>	<b>CO1</b>	Possess knowledge of the basic concepts of Labour Law and its jurisprudence.
		<b>CO2</b>	Possess knowledge of Laws on Working Conditions and its applications.
		<b>CO3</b>	Have insights on Industrial Relations laws and its benefits.
		<b>CO4</b>	To understand the fundamentals of the laws of wages and its applicability to industries.
		<b>CO5</b>	Have better understanding of the laws on social security and its uses and workings.
<b>HR41A</b>	<b>Managerial Economics</b>	<b>CO1</b>	Possess knowledge of the basic concepts of Managerial Economics, demand analysis and forecasting.
		<b>CO2</b>	Possess knowledge of the Law of Variable Proportions, production function, and cost determinants.
		<b>CO3</b>	Have insights on product markets, market structure and various concepts of pricing and its determinants.
		<b>CO4</b>	To understand the fundamentals of the National Income, business cycle and challenges.
		<b>CO5</b>	Have a better understanding of the Macro Economic Environment, the concept of LPG and Business and Government.
<b>I YEAR - II SEMESTER</b>			
<b>HR22A</b>	<b>Learning and Development</b>	<b>CO1</b>	Possess knowledge of the basic concepts of learning and development, its theories, principles and process.
		<b>CO2</b>	Possess knowledge of training and development, how to design a training programme.
		<b>CO3</b>	Have insights on executive development and its techniques.
		<b>CO4</b>	To understand the fundamentals of evaluation of training and development models and human capital.
		<b>CO5</b>	Have a better understanding of training design and implementation of the training programme.



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<b>HR22B</b>	<b>Industrial Relations</b>	<b>CO1</b>	Possess knowledge of the basic concepts of Industrial Relations to factors affecting employee stability and its application to psychology.
		<b>CO2</b>	Possess knowledge of Industrial Harmony and Conflict, its nature and machinery for settlement.
		<b>CO3</b>	Have insights on Industrial Relations at Government Level and its approaches.
		<b>CO4</b>	To understand the fundamentals and
			problems of trade union, and its impact on economic and social development.
		<b>CO5</b>	Have better understanding of collective bargaining, methods and its administration.
<b>HR22C</b>	<b>Performance Management</b>	<b>CO1</b>	Recognize and apply performance management techniques.
		<b>CO2</b>	Design performance management process across various business units.
		<b>CO3</b>	Design performance management process across various business units.
		<b>CO4</b>	Construct performance review and employ a Performance Management system.
		<b>CO5</b>	Critique team management strategies, Managing Team Performance.
<b>HR32A</b>	<b>Organizational Change and Development</b>	<b>CO1</b>	Comprehend and justify basic concepts of Organizational Change.
		<b>CO2</b>	Assimilate and design organizational development by practicing ethical standards.
		<b>CO3</b>	Summarize team and organizational intervention process and techniques.
		<b>CO4</b>	Develop a quality to manage work-life.
		<b>CO5</b>	Interpret constructs of wellbeing and approaches to achieving a balance in organizational culture.
<b>HR42A</b>	<b>Accounting for Managers</b>	<b>CO1</b>	Be able to understand the fundamentals of principles of accounting.
		<b>CO2</b>	Be able to prepare, and analyse Financial Accounting.
		<b>CO3</b>	Be able to use the tools and techniques of budgetary control and ratio analysis to help management in various decision making activities.
		<b>CO4</b>	Be able to take decisions using cost accounting methods.





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		CO5	Be able to prepare the reports by understanding the marginal costing techniques.
HR32B	Strategic Management	CO1	Be able to draft corporate strategy and institutional vision.
		CO2	Understand the link between society, business and corporate policy.
		CO3	Use techniques to do environmental analysis.
		CO4	Formulate a strategy based on analysis.
		CO5	Be able to execute strategy effectively.
II YEAR - III SEMESTER			
		CO1	Understand Workplace Counselling needsand assume the role of a counsellor.
	Workplace Counselling	CO2	Establish a counselling ecosystem.
		CO3	Design solutions to workplace counselling through interventions.
		CO4	Contrast counselling evaluation formats and implement them appropriately.
		CO5	Compare and justify the ethical code of conduct in counselling and constructing guidelines.
	Strategic Human Resource Management	CO1	Understand the concepts and principles of Strategic Human resource Management.
		CO2	Summarize the strategic role of HR and do HR Forecasting.
		CO3	Design solutions to Succession Management and restructuring.
		CO4	Understand and implement Mergers and Acquisitions.
		CO5	Compare and justify the process of outsourcing and evaluating HRM activities.
	Research Methods	CO1	Understand the concepts and principles of research.
		CO2	Summarize and establish a set for data collection.
		CO3	Summarize and establish solutions to data analysis.
		CO4	Understand the concepts of Multivariate Analysis.
		CO5	Compare and justify the process of writing and organizing a research report.
		CO1	Understand the concepts and principles of Labour Welfare.





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	Labour Welfare	CO2	Summarize and establish the setting on social security.
		CO3	Establish knowledge of Corporate Social Responsibilities.
		CO4	Understand the Problems Faced by Labour Welfare Activities in Indian Industries.
		CO5	Compare and justify the roles of labour welfare offices.
	Human Resource Information System	CO1	Be familiar with the basic concepts of data & information.
		CO2	Have knowledge of Data Management for HRIS.
		CO3	Know about DBMS & ERP.
		CO4	Utilize the knowledge of HRIS Applications.
		CO5	Create awareness, importance, types of security and its management in HRIS.
		CO1	Understand the growth of entrepreneurship in India.
		CO2	Gain knowledge of innovation, its types,
	Innovation and Entrepreneurship		role of technology in innovation, patents and licensing.
		CO3	Obtain knowledge of new venture creation.
		CO4	Be able to prepare a business plan.
		CO5	Gain knowledge of various types of finances available for new ventures.
II YEAR - IV SEMESTER			
	Compensation Management	CO1	Be familiar with basic concepts of compensation.
		CO2	Understand pay structure, strategies and components of compensation.
		CO3	Design the pay for performance and employee benefits.
		CO4	Understand the compensation for international assignments and special groups.
		CO5	Be aware of the importance of the Pay System in India and compensation ethics.
		CO1	Be familiar with the basic concepts of International HRM Models and Cultural approaches.
		CO2	Understand International Staffing Policy, assignments, cross-border mergers and acquisitions.



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	<b>International Human Resource Management</b>	<b>CO3</b>	Create awareness on Managing International Employees, their compensation and IHRM in the host country.
		<b>CO4</b>	Understand the components of International Industrial Relations, Performance Management and Appraisal.
		<b>CO5</b>	Be aware of HRM in International Organizations.
	<b>Total Quality Management</b>	<b>CO1</b>	Be familiar with the basic concepts of data & information.
		<b>CO2</b>	Understanding the insights on Statistical and Quality Control.
		<b>CO3</b>	Have knowledge of sampling, analysis and inspection.
		<b>CO4</b>	Have awareness and knowledge of the recent techniques for quality improvement.
		<b>CO5</b>	Will create awareness of ISO Standards, procedures and process.



**DEPARTMENT OF SOCIAL WORK**

**MSW**

**Course Outcomes**

2022 - 2023			
COURSE CODE	COURSE NAME	COS	COURSE OUTCOMES
<b>I YEAR - I SEMESTER</b>			
<b>HW21A</b>	<b>Social Work Profession – History and Philosophy</b>	<b>CO1</b>	The students can synchronise the theoretical knowledge of the social work profession in their current practical social settings.
		<b>CO2</b>	The students enhance their social work professional perspective to practically implement it in their work settings, such as NGOs, hospitals and factories.
		<b>CO3</b>	The students are enriched with different school of thoughts and ideologies.
		<b>CO4</b>	The students imbibe great ideas from social reformers and their inspirable social movements.
		<b>CO5</b>	The students enhance their philosophical knowledge of social work, which motivates them to enlarge their vision and ideology.
<b>HW21B</b>	<b>Social Case Work</b>	<b>CO1</b>	The students can use the principles and skills in their daily practice of case-work relationships when dealing with the client to solve their psycho-social problems.
		<b>CO2</b>	The students can use the techniques of counselling to fully understand the client's problem in a non-judgemental way to help them. Students adjust to cope and adjust with the social environment and human relations.
		<b>CO3</b>	The outcome of the course is to develop the skills of case workers for better studying about the history of clients and their individual problems personally in a psycho-social manner.
		<b>CO4</b>	The students come to understand about a certain process framed in studying the client's psycho-social personal development for solving their problems.
		<b>CO5</b>	Tools and techniques are used by the Case worker in social institutional settings like schools, hospitals and communities for building case worker relationships.
		<b>CO1</b>	The students learn the art of engaging the group to accomplish their goal and motive.



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HW21C	Social Group Work	CO2	The course will make the students observe each phase of the group work process, which gives an idea about how the group formation and development occurs in it.
		CO3	The course makes the students efficient in dealing with the group engagement and their
			motivation for helping them to achieve them group needs and desires.
		CO4	The course enables the students to be an initiator, motivator and enabler for initiating group formation and achieving group objectives and goals.
		CO5	The outcome of the course is to make the students into a capable and efficient social group work professional in conducting group activities.
HW41A	Sociology and Psychology for Social work Practice	CO1	The outcome of the course is to gain knowledge regarding the psychological development of the individual in respect of brain development and its intelligence.
		CO2	The students can understand well about the psychological theories which will help in looking over through the perspective of psychological aspect.
		CO3	Sociological perspective is also included in gaining knowledge about the varied social institutions and social structures that have a great impact on society's development.
		CO4	The course enables the students to know more about the important concepts of developmental psychology for creating the psychological perspective among them.
		CO5	The course makes the students to be a practical social worker by knowing the various concepts of sociology and psychology.
I YEAR - II SEMESTER			
HW22A	Community Organization & Social Action	CO1	The course will provide knowledge about the community organization and its process that stimulates the student to actively participate in the community emancipation and development.
		CO2	The students will understand the community's characteristics and their livelihood, which will help them to work for their betterment.
		CO3	The students will be able to learn how to approach the community and bring the ‘we’ feeling among them to fulfil their basic unmet needs.



		<b>CO4</b>	The course instills more values and principles of community organization among the students to make them better social workers.
		<b>CO5</b>	The course teaches different theories on community that make the students have a holistic perspective towards the community.
		<b>CO1</b>	The research work is undertaken by students to investigate deep into the topic of the research to find out a beneficial result for the development of society.
		<b>CO2</b>	The course will stimulate students' curiosity and questions them to better understand the process and steps of research.
<b>HW22B</b>	<b>Social Work Research and Statistics</b>	<b>CO3</b>	The research work will help the students to work for the development and betterment of society and for the growth of large institutions and esteemed organizations.
		<b>CO4</b>	The course enhances the research capacity and deep investigation among the students into various social problems and their effect on society.
		<b>CO5</b>	The outcome of the course is to know well about the research methodologies and its implications in doing the research activity on various social issue topics.
<b>HW42B</b>	<b>Counselling – Theory and Practice</b>	<b>CO1</b>	Students can learn the theory of counselling and can apply it in their practical work settings.
		<b>CO2</b>	The different approaches of counselling can emancipate the standard of a student's ability and capacity for solving the client's problems.
		<b>CO3</b>	The techniques and skills of counselling can ensure students apply it in their daily practical life.
		<b>CO4</b>	The various approaches and theories of counselling bring new perspectives and outlooks to students in solving the individuals' coping issues.
		<b>CO5</b>	The outcome of the course is to make the students capable and efficient counsellors in providing effective counselling therapy to clients.
<b>HW42C</b>	<b>Gender and Development</b>	<b>CO1</b>	The concept of gender empowerment is globally making a significant note in most of the organizations and its development. The students can well understand this emerging topic thoroughly.
		<b>CO2</b>	The contribution of women to the development of the nation is recognised and motivated in various countries. This course modernizes the thoughts of the younger generation on women empowerment.



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		<b>CO3</b>	The outcome of the course is to comprehend well the concept of feminism and social work.
		<b>CO4</b>	The course makes the students understand the various concepts of gender empowerment and the issues that are to be dealt with.
		<b>CO5</b>	The course provides knowledge of the significance of gender and its development in the global arena.
<b>II YEAR - III SEMESTER</b>			
		<b>CO1</b>	The students gain knowledge about the administration of the basic health facilities in the country.
		<b>CO2</b>	The students become knowledgeable about the social work practice, health and hygiene situation in India.
		<b>CO3</b>	The students enhance their knowledge of the
	<b>Community Health</b>		concept of health and hygiene to alleviate the level of diseases in the country.
		<b>CO4</b>	The students gain comprehensive and holistic knowledge on health and hygiene.
		<b>CO5</b>	The students work for the mental well-being of the society.
	<b>Mental Health</b>	<b>CO1</b>	The students gain knowledge of emerging research in Mental Health.
		<b>CO2</b>	The students gain knowledge about the various behaviour disorders and childhood disorders.
		<b>CO3</b>	The students enhance their knowledge about mental health disorders and take measures to create a healthy society.
		<b>CO4</b>	The students become aware of the concepts of normalcy and abnormal behaviour of people in society.
		<b>CO5</b>	The students can diagnose the disorders by practicing them in the hospital settings.
	<b>Social Welfare Administration</b>	<b>CO1</b>	Gain knowledge about the social welfare administration of service organizations.
		<b>CO2</b>	Understand the welfare programmes of the government.
		<b>CO3</b>	Acquire the skill of establishing a human service organization.
		<b>CO4</b>	The students will learn about the welfare of the employees from the labour welfare officer.





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		<b>CO5</b>	The knowledge of the historical perspective of various organizations motivates students to use it in their working organization.
	<b>Corporate Social Responsibility</b>	<b>CO1</b>	The students will learn about the importance of corporate social responsibility in society.
		<b>CO2</b>	The outcome of the course is to teach the different elements in the unit of society and define its significance.
		<b>CO3</b>	The outcome of the course is to teach the social audit of organization and disorganization to students to know about its importance and values.
		<b>CO4</b>	The outcome of the course is to provide knowledge about the concept of corporate responsibility.
		<b>CO5</b>	The course creates awareness on the various types of responsibilities in the corporate sector to the students for better understanding of the values and significance of social responsibility and social audits.
	<b>Social Policy and Social Legislation</b>	<b>CO1</b>	The students can learn about social policy and constitution and its relation relationship with it.
		<b>CO2</b>	The outcome of the course is to make the students be aware of the social legislation in India and its impact on the welfare of the people.
		<b>CO3</b>	The course teaches policy formulation and policy planning to gain more knowledge about it.



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		<b>CO4</b>	The course makes the students aware of the social welfare policy and its implementation in social institutions.
		<b>CO5</b>	The outcome of the course is to make the students responsible citizens by knowing a lot more about social policy and its legislation.
<b>II YEAR - IV SEMESTER</b>			
	<b>Medical Social Work</b>	<b>CO1</b>	The students will develop a deeper understanding of common physical diseases and health problems of the community.
		<b>CO2</b>	Students will gain the capacity to perceive the relation of the environment and socio-cultural and psychological factors in the causation, treatment and prevention of diseases.
		<b>CO3</b>	The students can understand the role of the medical social worker and their immense importance needed in the hospital settings.
		<b>CO4</b>	The students can adequately work for the mental health of the society and make it a mentally happier society.
		<b>CO5</b>	The students can well study about the needs and problems of patients in their families and can give effective solutions to their problems.
	<b>Psychiatric Social Work</b>	<b>CO1</b>	The students can be enriched with knowledge of institutional and extra mural approaches to the provisions of mental health services.
		<b>CO2</b>	The students can acquire the skill to understand the various settings in psychiatry.
		<b>CO3</b>	The students can use the various psychological treatment methods for different mentally affected disorder patients.
		<b>CO4</b>	The students can use the psychological therapies for curing the mental illness to make the society healthier.
		<b>CO5</b>	The students can acquire specific knowledge of the policies and legislation for mental health in India.
	<b>International Social Work</b>	<b>CO1</b>	To introduce students to the concept of the international dimensions of social work and connections between the local and global.
		<b>CO2</b>	To make cross – cultural comparisons in examining responses to global issues.
		<b>CO3</b>	To enhance cross-cultural competency among students.



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	<b>NGOS Management and Development Practices</b>	<b>CO1</b>	Gain knowledge about establishing and managing a nongovernmental organization.
		<b>CO2</b>	Understand the functions and activities of a nongovernmental organization.
		<b>CO3</b>	Acquire the skill of working with a nongovernmental organization.



  
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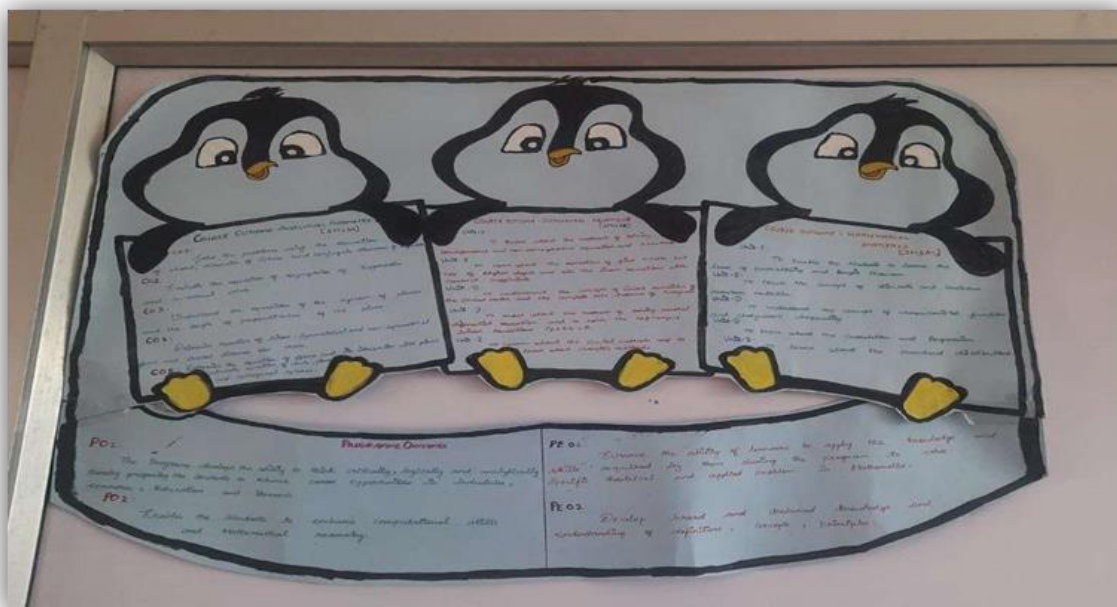
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### **DISPLAY OF COs**

**EVERY WEEK POs & PSOs OF ARE INTIMATED TO THE STUDENTS IN THE ASSEMBLY**



### **DISPLAY OF COs IN CLASSROOMS**



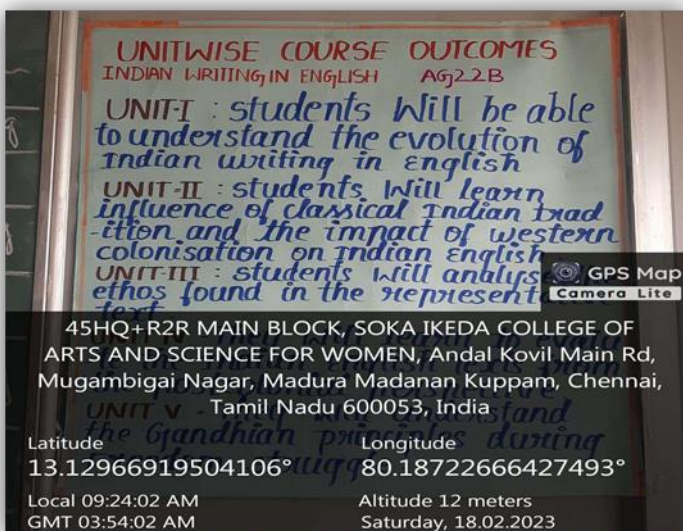
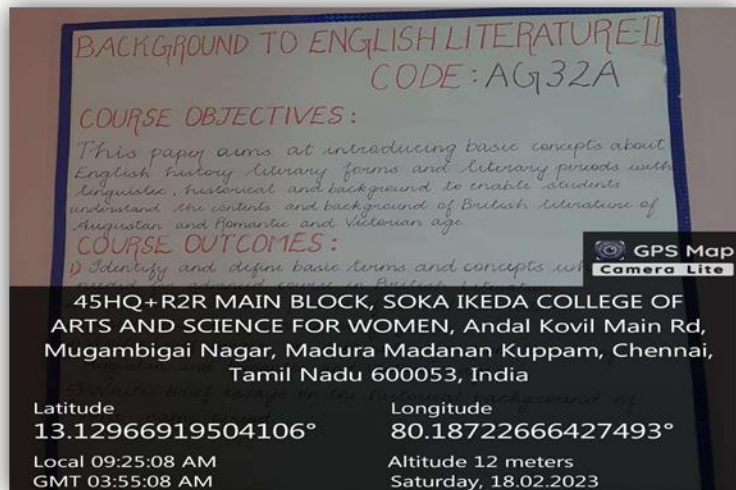




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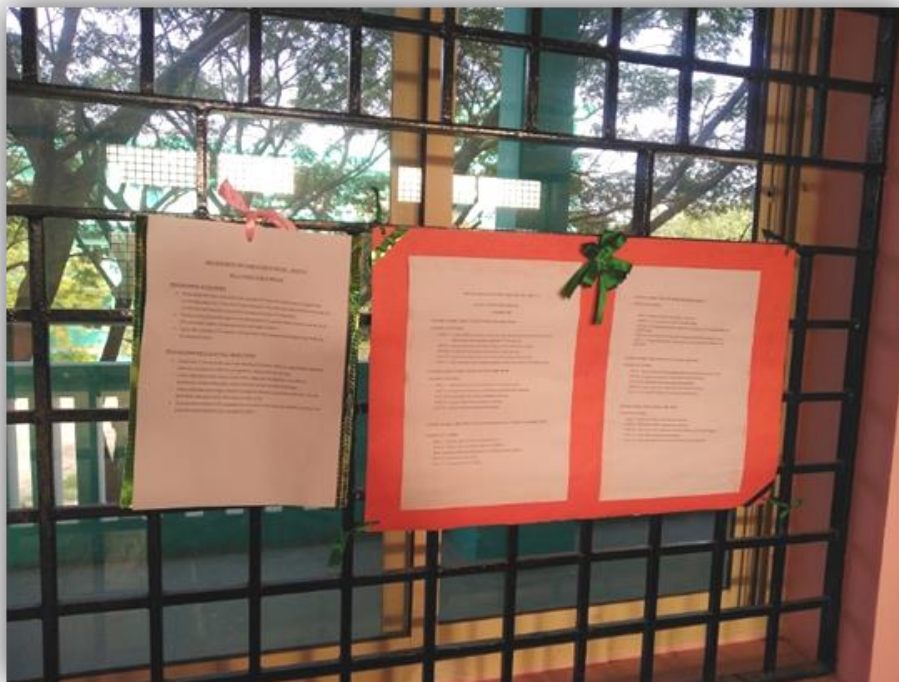
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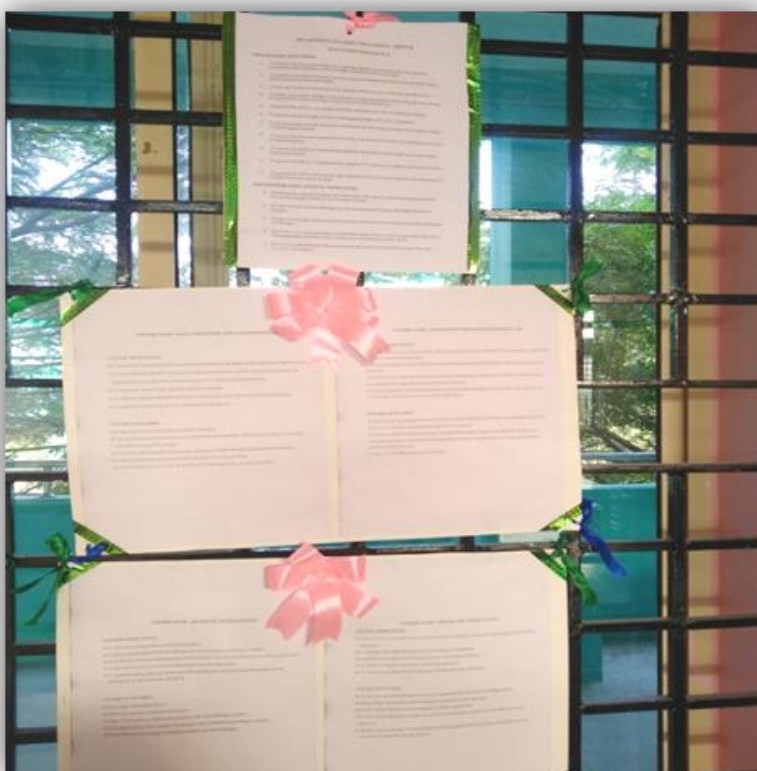
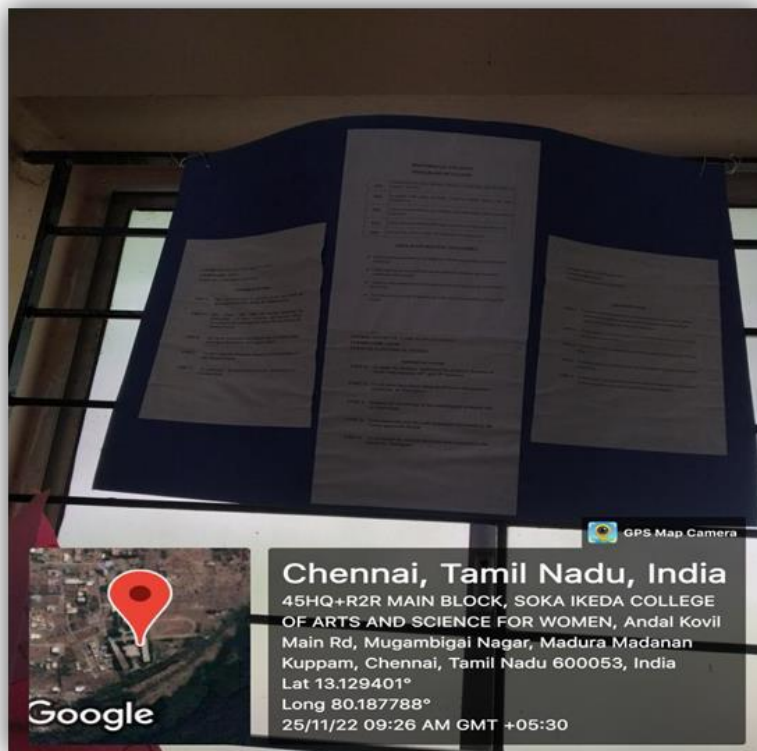






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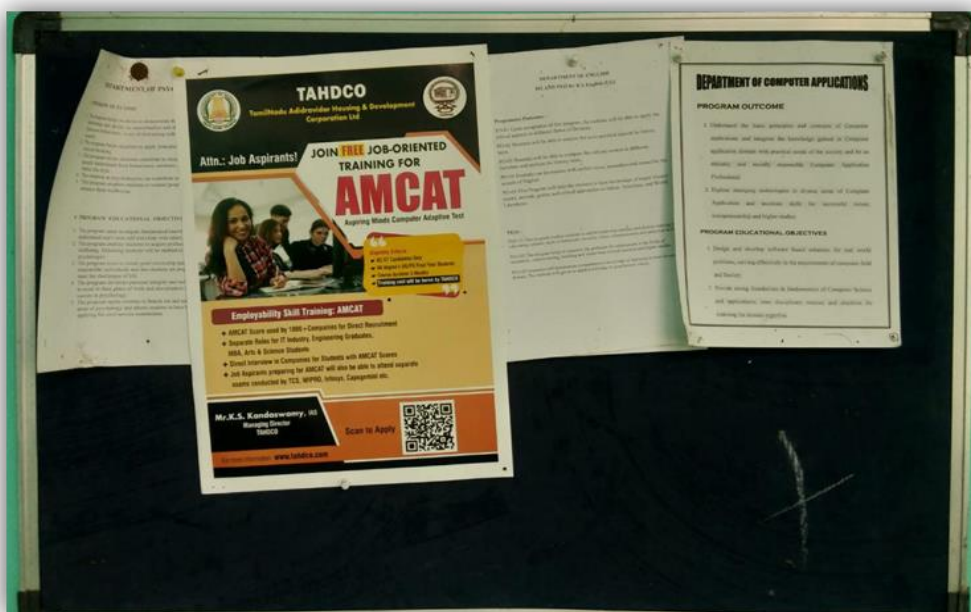
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**DISPLAY OF COs IN THE DEPARTMENT NOTICE BOARDS**



  
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