

COURSE OUTCOMES

Programmes Offered by the College	
Programme Level	Name of Programme/Course
UG	B.A. English with Journalism
UG	B.Sc. Electronics
UG	B.C.A.
UG	B.B.A.
UG	B.Com. Model II (Computer Application)
PG	M.Sc. Computer Science
PG	M.Sc. Electronics

Course Outcome: B.Sc. Electronics

		Title of the course	Course Outcome
Semester I		Basic Electronics	Acquire a pre requisite knowledge on basic electrical technology and to familiarise with basic electronic devices.
		Methodology of science	Enable the students to systematically pursue his particular discipline in science in relation to other disciplines that come under the rubric of sciences. It enables the students to learn fundamental characteristics of science as human enterprise and apply scientific methods independently.
		Solid State Physics	Provides the students with knowledge of Physics to catch up with the new areas related to electronics including quantum computing and nanotechnology.
		Basic Electronics Lab	Provides a basic knowledge of electronic components and their characteristics.
Semester 2		Electronic Circuits	Equip the students with circuit level application concepts of electronic devices.
		Network Theory	Excel in the field of circuit theory, network theorems, circuit analysis and filter theory.
		Digital Electronics	Equip the students with the concepts of Boolean algebra, digital logic gates, combinational and sequential digital circuits.
		Digital Electronics Lab	Gain expertise in handling digital ICs, logic gates, and digital circuit designing.
S †		Microprocessors	Give a strong background in the field of microprocessor

		8085 and to expertise in assembly level programming.
	Electromagnetic Theory	Excel the students in the field of electrostatics, magnetostatics, electro dynamics and Maxwell's equation
	Analog Communications	Acquire thorough knowledge of modulation and analog communication techniques.
	Analog Electronics	To gain thorough knowledge of Analog ICs with special emphasis on analog circuit designing using op-amp 741.
	Analog Circuits Lab	Gain expertise in handling analog ICs and analog circuit designing using op-amp 741.
Semester 4	Programming in C	Introduces and equips the student with software programming concepts and develop soft skills.
	Microwave Electronics	Equip the student with the theory of wave guides, transmission lines, microwave components, microwave tubes and devices.
	Opto Electronics	Enables the student to understand basic laws and phenomena in the area of Optoelectronics and Lasers. To familiarize students with lasers, fibers, fiber detectors, and LED diodes used in optoelectronic devices. To make students aware of physical mechanisms of optoelectronic equipment action.
	Instrumentation Electronics	Imparts an in depth knowledge in the field of transducers, bridges and electronic instruments.
	Microprocessors -Practical	Equips the students with a practical knowledge of 8085 programming, its interfacing and applications.
	Programming Lab - C	Develop logical and syntactical expertise in programming language C and to develop software skills.
Semester 5	Microcontrollers and Embedded Systems	Provides the student with a detailed understanding of Microcontrollers and Embedded Systems. 8051 Architecture,
	Digital Communication	Enable the students to become an expert in various digital communication techniques and data communications.
	Computer Hardware	Gain an in-depth knowledge of computer hardware and hence to create confidence in using and assembling PC.
	Computer Assembling	This course enables the students to have knowledge of hardware components and latest development in the field of computer and to understand the fundamentals of PC assembly.
	Microcontroller Lab	To familiarise with microcontroller and embedded system design and programming. To equip students to carry out real time projects based on 8051 microcontroller
	Communication Lab	To analyze and design basic electronic circuits related to communication, including oscillators and filters and to understand various modulation techniques in time domain
Semester 6	Digital Signal Processing	To excel in the field of signal processing and to equip the students with the concept of Fourier transform and FFT algorithms, Digital Filter design and DSP hardware.
	Computer Networks	Gives an in-depth knowledge in the field of computer

		networks and protocols involved in data communication.
	Radio and Fibre Optic Communication	To introduce the students to the fundamental basics and understanding of radio and fibre optical communication. To identify the environmental effect on wave propagation and to explain the effect of different ionospheric layers on radio wave transmission. To understand the properties of optical fibres and how are they used to establish optical links for communication systems.
	Digital Image Processing	Theoretical discussion on image creation and representation. Get familiarised with mechanisms for image enhancement.
	Power Electronics	To have fundamental knowledge in power devices, circuits and its applications.
	Seminar	To enrich in depth knowledge of technological aspects of Electronics and to familiarise with current and recent technological developments and improve presentation skill
	Project Lab	To enable the student to get a thorough knowledge in the frontiers of Electronics and allied areas by taking up an application based project work that includes control, measurement and testing of applications.

Course Outcome: B.C.A.

	Title of the course	Course Outcome
Semester I	Fine Tune Your English	Intended to introduce the students to the basics of English grammar ,confident usage of English in written & spoken forms and formal effective communication
	Discrete Mathematics -I	To study simplification and evaluation of basic logic statements including compound statements, implications,.
	Basic Statistics and Introductory Probability Theory	It is to equip students with consequently requisite quantitative skills that they can employ and build on in flexible ways.
	Computer Fundamentals and Digital principles	The student should learn the fundamental components used in a digital system and basic (internal) function of computers.
	Methodology of Programming and C Language	Programming methodology deals with the analysis, design and implementation of program. Programming methodology is just a programming practice to help the students to plan and structure more defined way..The primary programming language for coding OS based application.
	Software Lab I	The purpose of this course is to introduce the field of programming to the student.
	Semester II	English - Issues that Matter
Discrete Mathematics –II		To study the simplification and evaluation of basic logic statements.

	Database Management Systems	To study about mass storage, data protection, back up and recovery, multiple access , removal duplicity.
	Computer Organization and Architecture	To learn the machine level representation of data, instruction sets, computer arithmetic, CPU structure and functions, memory system organization and architecture, system input/output, multiprocessors, and digital logic.
	Object Oriented Programming using C++	<i>Object oriented programming aims</i> to implement real world entities like inheritance, hiding, polymorphism etc <i>in programming</i> . The main aim of <i>OOP</i> is to bind together the data and the functions that operates on them so that no other part of code can access this data except that function
	Software Lab –II	Implementation of object oriented programming concepts related to real world data.
Semester 3	Advanced Statistical Methods	Learning how to effectively use data and <i>statistical methods</i> to make evidence based business decisions
	Computer Graphics	To learn how <i>graphics</i> created in <i>computer</i> world
	Microprocessor and PC Hardware	To learn about the <i>physical</i> parts or components of a computer, including the monitor, keyboard, hard drive disk, mouse, printers, graphic cards, sound cards, memory, motherboard and chips, etc
	Operating Systems	To study how operating system act as an interface between application program and computer hardware.
	Data Structure using C++	To introduce the concept of abstract data type, data structure , performance management , time and space complexities of algorithm .To discuss the implementation of linear data structures and non-linear data structures. To introduce various search data structures and internal sorting techniques.
	Software Lab –III	Implementation of data structure using object oriented programming.
Semester 4	Operational Research	The mathematical tool to study optimization. i.e to learn to do things best under given circumstance.
	Design and Analysis of Algorithms	To teach techniques for effective problem solving in computing.
	System Analysis & Software Engineering	Software engineering is the study and application of engineering to the <i>design</i> , development, and maintenance of software
	Linux Administration	A system uses a monolithic kernel, the Linux kernel, which handles process control, networking, access to the peripherals, and file systems.
	Web Programming using PHP	Web programming refers to the <i>writing</i> , markup and <i>coding</i> involved in Web development. PHP is a script language and interpreter that is freely available and used primarily on Linux Web servers
	Software Lab –IV	To study the Linux administration and web programming.

Semester 5	Computer Networks	To learn about <i>computer network, which</i> is an interconnection of various computers to share software, hardware, resources and data through a communication
	IT and Environment	To learn the role of IT in Environmental impact assessment and Environmental audit.
	Java Programming using PHP	To study server side scripting using general purpose programming language
	Informatics and Cyber Ethics	Cyber ethics is the study of ethics pertaining to computers, covering user behavior and what computers are programmed to do, and how this affects individuals and society.
	Software lab –V	To learn java programming and PHP
	Software Development –I, Mini Project in PHP	To study and development of real applications using PHP- widely-used open source general-purpose scripting language that is especially suited for web
Semester 6	Cloud Computing	To learn the use of cloud computing and cloud storage, which helps and benefits them to reduce the cost of data management, improve productivity and safety & security of data and information.
	Mobile application Development –Android	To learn to <i>use Android Studio</i> , the integrated <i>development environment (IDE)</i> for <i>Android apps</i>
	Data Mining	To study the process of discovering patterns in large <i>data</i> sets involving methods at the intersection of machine learning
	Software Lab –VI & Seminar	To study and present the new technological inventions
	Software Development Lab –II , Main Project	To develop a real time application using computer technology.
	Viva voce	Assessment of the subject knowledge in computer field.

Course Outcome: B.Com. with Computer Applications

	Title of the course	Course Outcome
Semester I	Dimensions And Methodology Of Business Studies	<ul style="list-style-type: none"> • To understand business and its role in society • To have an understanding of Business ethics and CSR • To comprehend the business environment and various dimensions • To familiarise Technology integration in business • To introduce the importance and fundamentals of business research
	Financial Accounting– I	To equip the students with the skill of preparing accounts and financial statements of various types of business units

		other than corporate undertakings
	Corporate Regulations And Administration	To familiarise the students with the management and administration of joint stock companies in India as per Companies Act, 2013
	Banking And Insurance	To familiarize the students with the basic concepts and practice of banking and the principles of Insurance
Semester 2	Financial Accounting – II	To acquaint the students with the preparation of books of accounts of various types of business activities and application of important accounting standards
	Business Regulatory Framework	The course is intended to familiarise the students with the legal framework Influencing business decisions
	Business Management	To familiarise the students with concepts and principles of management
	Principles Of Business Decisions	The course is intended to familiarise the students with the economic concepts and principles underlying business decision making
Semester 3	Marketing Management	<ul style="list-style-type: none"> To help students to understand the concept of marketing and its applications To make the students aware of modern methods and techniques of marketing
	Financial Accounting	To familiarize the students with the accounting principles and practices of various types of business other than companies
	E-Commerce And General Informatics	To make the students familiar with the mechanism of conducting business transactions through electronic media
	Business Management	To familiarize the students with the concepts and principles of management
	Information Technology For Business	<ul style="list-style-type: none"> To aware the role of IT in business Capable of developing web pages for business Acquaint with internet as a knowledge management tool.
Semester 4	Capital Market	<ul style="list-style-type: none"> To give the students an overall idea about capital market To familiarise the students with capital market operations in India
	Corporate Accounting	To provide a thorough knowledge about the accounting of companies
	Entrepreneurship Development And Project Management	To equip the students a craving for individual freedom initiative and enterprise by pursuing self employment and small business entrepreneurship as a viable alternative to salaried employment
	Financial Services	<ul style="list-style-type: none"> To provide the students with an overall idea of financial services available in the country To create an understanding about recent trends in financial service sector
	Information Technology For Office	Gain knowledge in information technology in office work

Semester 5	Cost Accounting	To familiarise the students with cost concepts .to make the students learn the fundamentals of cost accounting as a separate system of accounting
	Special Accounting	To acquaint the students with advanced accounting principles and procedures
	Computerised Accounting	<ul style="list-style-type: none"> To equip the students to meet the demands of the industry by mastering them with industry sought after computerised accounting packages. To expose students to computer applications in the field of accounting. To develop practical skills in the application of tally accounting packages.
	Programming In C Language	This course is to familiarise the students with the procedure for programming C language
Semester 6	Applied Cost Accounting	<ul style="list-style-type: none"> To acquaint the students with different methods and techniques of costing To enable the students to identify the methods and techniques applicable for different types of industry.
	Practical Auditing	<ul style="list-style-type: none"> To familiarize students with principles and procedures of auditing Enable the students to understand the duties and responsibilities of auditors
	Accounting For Managerial Decisions	<ul style="list-style-type: none"> To equip the students to interpret financial statements. To enable the students to have a thorough knowledge on the management accounting techniques in business decision making
	Data Base Management System For Business	The objective of this course is to familiarise students with database concepts and equip them to handle data base management system for business firms
	Programming With Visual Basics	This is to familiarise students with the programming in visual basic

Course Outcome: B.B.A.

	Title of the course	Course Outcome
Semester I	Principles and Methodology of Management	Students will come to know how to apply principles and methodology of management to practice
	Business Accounting	Students can come to know the basic knowledge about the system of accounting.
	Fundamentals of Business Mathematics	To develop analytical and critical thinking skills in students to prepare them to logically analyse and critically evaluate problem situation through basic mathematics.
	Fundamentals of Business	Students can come to know a reasonable idea of basic

	Statistics	statistical methods needed for a statistical investigation and forecasting
Semester 2	Cost and Management Accounting	Students can come to know that how to manage fund, cash and other financial variables and resources and also how to take decisions by analyzing financial statements.
	Mathematics for Management	Students can develop analytical and critical thinking skills and to analyse managerial problems in the light of mathematics and solving in such situations.
	Statistics for Management	Students can come to know a general outlook of certain statistical test which is useful to researchers in various fields
	Business Communication	Students can come to know that how to understand the nuances of business communication, group discussion and seminars
Semester 3	Entrepreneurship	This subject is useful to the students for become a good entrepreneur, as well as it can help students to open their own enterprise and how to make a risk taker and to develop the entrepreneurial abilities in the students and help them to prepare a project report
	Business Laws	To impart awareness about the basic principles of business contracts.
	Research Methodology	To enable the students to be familiar with procedural aspects of research
	Corporate Accounting	This Subject helps students to develop conceptual and deep understanding regarding to make the students familiar with corporate accounting procedures.
Semester 4	Basic Informatics for Management	To make a student competent to handle and scientifically analyze the various aspects of his business while he commence a business
	Cost Accounting	To help the students to get an idea about the cost concepts, methods and techniques of cost Accounting
	Corporate And Industrial Laws	To build a general awareness about the principles behind, corporate governance, intellectual property and industrial laws
	Managerial Economics	To acquaint the students the micro and macroeconomic basis of business decisions in a business organization
	Marketing Management	The aim of this course is to provide the students with a conceptual base on marketing management and also to equip them with the necessary skills for employment in the middle level cadre
Semester 5	Management Accounting	Students can come to know that how to manage fund, cash and other financial variables and resources and also how to take decisions by analyzing financial statements
	Financial Management	To acquaint the students with the fundamental concept theories and techniques of the financial management with special reference to the Indian contest.
	Organisation Behaviour	To inculcate the applications of human psychology in

		organization situations.
	Human Resource Management	To make aware the students about concepts, forms theories, approaches of HRM and their evolving dynamics in the emerging business scenario
	Investment and Portfolio Management	To familiarize with various investment avenues
Semester 6	Production Management	To make aware the students about introduction to production management, problems faced by production manager and functions of Production Planning and Control
	Industrial Relations	To make awareness about relations between labour and management in an industry
	Banking and Insurance Management	To acquaint the students with banking and insurance industry and the functions performed by them
	Health Care Management	To orient students in health care, enhance knowledge in the health care industry, to familiarize the students about the various services and to familiarize the students with office management
	Advertising and Salesmanship	To create awareness among the students and equip them with the necessary skills for employment in the middle level cadre
	Project Work	Students are able to use analytical and reflective thinking techniques to identify and analyze problems, develop viable alternatives, and make effective decisions; to apply appropriate quantitative and qualitative techniques in solving business problems; to write effective business documents; identify and analyse ethical conflicts and social responsibility issues involving different stakeholders; develop viable alternatives and make effective decisions relating to business ethics and social responsibility; identify and analyse relevant global factors that influence decision making and develop viable alternatives and make effective decisions in an effective decisions in an international setting.

Course Outcome: B.A. English with Journalism

Aim	Objective
Fine-tune Your English	
The course is intended to introduce the students to the basics of grammar, usage and effective communication	<ul style="list-style-type: none"> • Confidently use English in both written and spoken forms. • Use English for formal communication effectively
Issues that Matter	
To sensitize the learners to contemporary issues of concern	<ul style="list-style-type: none"> • Identify the major issues of contemporary significance • Respond rationally and positively to the

	<p>issues raised</p> <ul style="list-style-type: none"> • Internalize the values imparted through the selections.
Literature and/as Identity	
<p>The course is intended to sensitive students to the various ways in which literature serves as a platform for forming, consolidating, critiquing and re-working the issue of ‘_identity’ at various levels</p>	<ul style="list-style-type: none"> • The subtle negotiations of Indigenous and Diaspora identities with-in Literature. • The fissures, the tensions and the interstices present in South Asian regional identities. • The emergence of Life Writing and alternate/alternative/marginal identities.
Illuminations	
<p>To acquaint the learners with different forms of inspiring and motivating literature</p>	<ul style="list-style-type: none"> • Maintain a positive attitude to life. • Evaluate and overcome setbacks based on the insights that these texts provide
Methodology of Literary Studies	
<p>The course seeks to introduce the student to the major signposts in the historical evolution of literary studies from its inception to the current postcolonial realm</p>	<ul style="list-style-type: none"> • The emergence of literature as a specific discipline within the humanities. • The tenets of what is now known as ‘_traditional’ approaches and also that of ‘_formalism.’ • The shift towards contextual-political critiques of literary studies. • The questions raised by Cultural Studies and Feminism(s) • The issues of sublaternity and regionality in the literary domain
Introducing Language and Literature	
<p>The course seeks to introduce the student to the basics of English language and literature</p>	<ul style="list-style-type: none"> • The evolution and the differential traits of the English language till the present time. • The evolution of literature from antiquity to postmodern times. • The diversity of genres and techniques of representation and narration • The links between literature and film as narrative expressions. • The emergence of British and American Literature through diverse periods
Harmony of Prose	
<p>The student is given space to mature in the presence of glorious essays, both Western and Non-Western</p>	<ul style="list-style-type: none"> • Familiar with varied prose styles of expression. • Aware of eloquent expressions, brevity and aptness of voicing ideas in stylish language
Symphony of Verse	
<p>To acquaint the student with the rich</p>	<ul style="list-style-type: none"> • An understanding of the representation of poetry

texture of poetry in English	<p>in various periods of the English tradition.</p> <ul style="list-style-type: none"> • An awareness of the emerging cultural and aesthetic expressions that poetry makes possible.
Modes of Fiction	
To acquaint students with various modes of fiction	On completion of the course, the student will have comprehended the categories of British and non- British short fiction, and also the novel as a form of literary expression
Language and Linguistics	
This course is an introduction to the science of linguistics. It seeks to give an overview of the basic concepts of linguistics and linguistic analysis to the students	<ul style="list-style-type: none"> • To show the various organs and processes involved in the production of speech, the types and typology of speech sounds, segmental & suprasegmental features of the English language, and transcription using IPA. • To describe and explain morphological processes and phenomena. • To show the various processes involved in the generation of meaning. • To enhance students' awareness that natural language is structure dependent and generative and to develop their ability to observe, describe and explain grammatical processes and phenomena.
Acts on the Stage	
The course seeks to introduce the student to select theatre texts that form the canon of English drama	<ul style="list-style-type: none"> • Familiar with the works of the playwrights included in the course. • Informed about the broad genre-based nuances in the realm of drama. • Able to appreciate and critique drama as an art form
Literary Criticism and Theory	
The course seeks to introduce students to the major signposts in Literary Criticism, Literary Theory and Indian Aesthetics	<ul style="list-style-type: none"> • Will have awareness about the major developments in literary criticism from the ancient times to the twentieth century. • Will be initiated to the realm of literary theory and major theoretical schools. • Will have awareness about the chief strains of Indian literary criticism. • Will be able to analyze short poetical pieces critically
Indian Writing in English	
The course is intended to sensitise students to the various ways in which	<ul style="list-style-type: none"> • The subtle flavors that distinguish the Indian 'quotient' in English writings from

literature written in English, in the Indian sub-continent serves as a platform for forming, consolidating, critiquing and re-working the issue of national ‘identity’ at various levels.	<p>India.</p> <ul style="list-style-type: none"> • The different concerns that Indian English writers share, cutting across sub-nationalities and Regionalities. • The <i>locus standi</i> of diasporic ‘Indian’ writers.
Postcolonial Literatures	
To familiarize the students the varied dimensions of postcolonial subjectivity through theory and literature	<ul style="list-style-type: none"> • Be aware of the social, political, cultural aspects of postcolonial societies. • Realize the impact of colonialism and imperialism on native cultural identities. • Get an insight into the links between language, history and culture
Women Writing	
To introduce the theoretical and literary responses by women and the concerns that govern feminist literature	<ul style="list-style-type: none"> • Critically respond to literature from a feminist perspective. • Realize how the patriarchal notions pervade in the social and cultural scenario and how feminism exposes these notions. • Identify how stereotypical representations of women were constructed and how these are subverted by feminist writing
American Literature	
To enable the students to have a holistic understanding of the heterogeneity of American culture and to study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts	<ul style="list-style-type: none"> • Familiar with the evolution of various literary movements in American literature. • Acquainted with the major authors in American Literary History
Modern World Literature	
To make the students aware of the stupendous variety that resides in Literatures the world over	<ul style="list-style-type: none"> • That literatures the world over engage in very deep ways with the vicissitudes of life. • World literatures often defy genres/Regionalities and canonical assumptions to emerge as a platform where poetics and politics fuse. • The notion of Major and Minor, Central and Peripheral literatures is a myth
Theatre Studies	
The students will be introduced to a selection of plays from the West and the East, ranging from the tragic and the comic, the folk and the street, so as to generate interest in theatre and make them aware of the new trends in modern theatre	<ul style="list-style-type: none"> • An understanding of a selection of well-discussed plays across the world. • The classical and modern theatre in the West and the East. • The form and content of various kinds of theatre. • Colonial and subversive postcolonial aspects in Indian theatre.

	<ul style="list-style-type: none"> • Issues of gender, identity, caste, tradition, morality, etc dealt with by modern theatre
Comparative Literature	
To introduce the student to the various concepts relating to comparative study of literature and to promote an international approach to the study of literature	<ul style="list-style-type: none"> • Develop strategies and methodologies in the study of literatures in comparison. • Undertake a methodological investigation of problems involving more than one literature so that she/he may acquire a broader sense of literary history and tradition. • Critically analyze literary texts in a broader perspective of World Literature
Regional Literatures in Translation	
The students will be introduced to a selection of regional literatures translated into English	<ul style="list-style-type: none"> • An understanding of much discussed writers/literary pieces in the vernaculars. • The modern trends in regional literatures
Voices from the Margin	
To introduce —voices from the margins to the students, as an attempt to understand suppressed histories and discourses	On completion of the course, the student will have critically encountered subaltern voices, Dalitness and indignity

Course Outcome: M.Sc. Computer Science

	Title of the course	Course Outcome
Semester I	Mathematical Foundations of Computer Science	To understand any Computer Science topic deeply enough, it is essential to have a firm foundation of the underlying mathematics. This course introduces the mathematical concepts which form the prerequisite for a study of advanced Computer Science. A major emphasis of the course would be to develop the student's problem solving skills.
	Advanced Computer Systems and Internet Programming	To gain an understanding of issues underlying the use of the Internet for communication, resource discovery, research, and dissemination of information in multimedia formats. To understand social, legal, and ethical issues related to using the Internet. To gain skills in using current Web technologies
	Digital Circuits Fundamentals and Computer Organization	Main objective of the course is to familiarize students about hardware design including logic design, basic structure and behaviour of the various functional modules of the computer and how they interact to provide the processing needs of the user
	Object Oriented Programming with C++	This course provides in-depth coverage of object-oriented programming principles and techniques using C++. Topics include classes, overloading, data abstraction, information hiding, encapsulation, inheritance, polymorphism, file processing, templates, exceptions, container classes, and

		low-level language features
Semester 2	Data and File Structure	To assess how the choice of data structures and algorithm design methods impacts the performance of programs. To solve problems using data structures such as linear lists, stacks, queues, hash tables, binary trees, heaps, binary search trees, and graphs and writing programs for these solutions
	Computer Network	The course objectives include learning about computer network organization and implementation, obtaining a theoretical understanding of data communication and computer networks, and gaining practical experience in installation, monitoring, and troubleshooting of current LAN systems
	Operating Systems and System Programming	To master the basic concepts related to operating systems. To learn detail about process management. To master concurrency and control of process like critical section problems and its solution. To understand memory management functions of operating systems. To familiar with principles of deadlock and its prevention, file system implementation, protection and security aspects of operating systems
	Computer Graphics and Digital Image Processing	Computer Graphics is utilized by a wide variety of fields -- including computer science -- as a tool to assist in the problem solving aspects of the field. The primary objective of this course is to have -you- learn the basic principles of 3-dimensional computer graphics
Semester 3	Data base Management System	To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency. To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modelling, designing, and implementing a DBMS
	Java Programming	This course provides an introduction to object oriented programming (OOP) using the Java programming language. Students completing the course should know: The model of object oriented programming: abstract data types, encapsulation, inheritance and polymorphism
	Design and Analysis of Algorithms	The objective of the course is to teach techniques for effective problem solving in computing. The use of different paradigms of problem solving will be used to illustrate clever and efficient ways to solve a given problem. In each case emphasis will be placed on rigorously proving correctness of the algorithm
	Software Engineering	The software engineering program provides project-rich learning experiences to educate software engineers for success in a rapidly evolving computing field.
me ste	Data mining	The course will provide students with the tools for discovering information in large data sets. Topics will

		include methods for preparing data for data mining, statistics, data visualization, business intelligence, knowledge mining, and databases, with a focus on analysis of large data sets
	Database Administration using SQL server	The primary goal of this course is to prepare the students to administer complex SQL Server databases

Course Outcome: M.Sc. Electronics

		Title of the course	Course Outcome
Semester I		Mes 1c1- Electronics Devices And Circuit Designs	To get a basic idea about semiconductor devices, operational amplifier and digital electronics To understand the design of different digital systems
		Mes 1c2-Modern Communication System	To familiarize and understand in detail about different digital communication systems including Fiber optics communication, Mobile communication, satellite communication, Radar Systems.
		Mes1c3-Advanced Networks And Systems	To excel in the field of circuit theory, network theorems, circuit analysis. To familiarize Laplace and Fourier transform analysis
		Mes1c4- Mems And Power Electronics	To get a basic idea of MEMS and various MEMS fabrications process To understand the working of various power devices and circuits
		Mes1p5-Advanced Electronics Lab	To gain expertise in handling various Op Amp circuits, power Electronics circuits, Communication circuit and Digital Circuits
Semester II		Mes2c1-Dsp And Applications	To provide a detailed understanding of Digital Signal Processing and Image Processing with the help of MATLAB. The course covers the detailed design and mathematical analysis of DSP and Image Processing
		Mes2c2-Microcontroller And Embedded System	To provide the students with detailed understanding of embedded system on the basis of 8051 and AVR microcontroller. Course covers detailed architecture, Interfacing techniques of both microcontrollers. The course also gives a clear idea about AVR programming
		Mes2c3-Robotics And Mechatronics	To get an idea about Robotics and Mechatronics, to understand the classification & sensors used in robotics, to understand the various applications of robotics

	Mes 2c4-Vlsi Design And Analysis	To understand various MOS Technologies, VLSI Technologies
	Mes2p5-Microcontroller And Signal Processing	To familiarize with microcontroller and embedded system design and programming with special emphasis on AVR . To familiarize MAT Lab.
Semester III	Mes3c1- Optical Fiber Communication Systems	To get a basic understanding of fundamental principles of Optical Fiber Technology, Understand different Multiplexing Techniques, to know different Testing Equipments.
	Mes3c2- Programming In C++	To acquire knowledge on Object Oriented Programming concepts using C++.
	Mes3c3-Data Communication And Internet Technology	To get a knowledge of Data Communication Techniques and concept of Internet Technology
	Mes3c4-Control Systems	To understand the open loop and closed loop systems, time response and frequency response analysis of control systems, to understand compensation technique that can be used to stabilize control systems
	Mes3p5-C++ Programming Lab	Develop logical and syntactical expertise in programming language C++ and to develop software skills.
Semester IV	Mes4c1- Advanced Embedded Systems	To understand Advanced Embedded System on the basis of ARM and VHDL programming. The Course covers architecture of ARM processor and basic programming concept of VHDL.
	Mes4p2-Vhdl Programming Lab	This lab aims at Implementation of various digital circuits, both Combinational and sequential logic circuits using XILINX/ALTERA/MODELSIM
	Mes4ea1- Nanotechnology	This paper is provides the students with an overview of nanotechnology and its applications, various methods adopted for the synthesis of nonmaterial's and modern instrumental techniques suited for the characterization of nanostructure materials
	Mes4eb1-Biomedical Electronics And Biosensors	To get a basic understanding of fundamental principles of biomedical instrumentation, different measurement techniques, different biosensors