

B.SC (Information Technology)

Course Outcome

Imperative Programming	Students will be able to choose appropriate data structures to represent data items in real world problems. They can analyze the time and space complexities of algorithms.
Digital electronics	Students will be able to understand number representation and conversion between different representation in digital electronic circuits and they will be able to analyze logic processes and implement logical operations using combinational logic circuits.
Operating System	Students can Identify use and evaluate the storage management policies with respect to different storage management technologies. They can also describe the important computer system resources and the role of operating system in their management policies and algorithms.
Discrete Mathematics	Students will be able to apply basic counting techniques to solve combinatorial problems. They will gain experience in using various techniques of mathematical induction (weak, strong and structural induction) to prove simple mathematical properties of a variety of discrete structures.
Communication Skills	Students will be able to understand and apply knowledge of human communication and language processes as they occur across various contexts, e.g., interpersonal, intrapersonal, small group, organizational, media, gender, family, intercultural communication, technologically mediated communication, etc. from multiple perspectives.

Semester-II

Course Name	Outcomes
Object Oriented Programming	The students will gain knowledge about Object Oriented Programming through C++. They can make their own Applications/Projects using C++ and can be deputed as a C++ programmer in IT companies.
Microprocessor Architecture	Students will be able to describe basic organization of computer and the architecture of 8085 microprocessor and can implement assembly language program for given task for 8085 microprocessor.
Web Programming	Students are able to develop a dynamic webpage by the use of java script and HTML. Students will be able to write a well formed / valid XML document
Numerical and Statistical Methods	Students can use a range of standard numerical and statistical methods to solve problems. They can solve system of linear equations.
Green Computing	Students can use Green IT Strategies and metrics for ICT development and they can Illustrate various green IT services and its roles.

Semester-III

Course Name	Outcomes
Python Programming	Students can describe the Numbers, Math functions; Strings, List and Dictionaries in Python and the can design and develop Client Server network applications using Python.
Data Structures	Students will be able to implement Linear and Non-Linear data structures. They can Determine and analyze the complexity of given Algorithms. They can also implement appropriate sorting/searching technique for given problem.
Computer Networks	Students will be able to Explain the types of transmission media with real time applications. They can classify the routing protocols and analyze how to assign the IP addresses for the given network. They can also describe the functions of each layer in OSI and TCP/IP model.
Database Management System	Students will be able to Retrieve any type of information from a data base by formulating complex queries in SQL. They can Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.
Applied Mathematics	Student will be able to identify the permutation and combinations. They can Define variable and also identify the mapping and also apply the Set theory and Relation

	concepts
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Semester-IV

Course Name	Outcomes
Core Java	Students will be able to write, compile and execute Java programs using object oriented class structures with parameters, constructors, and utility and calculations methods, including inheritance, test classes and exception handling.
Introduction to Embedded System	Students will be able to understand the internal architecture and interfacing of different peripheral devices with Microcontrollers. They will be able to write the programs for microcontroller.
Computer Oriented Statistical Techniques	Students will be able to learn statistical and optimization methods, in particular, with reference to frequency distribution and measures of central tendency, measures of dispersion and they will be able to learn theory of probability, linear programming problems, transportation, assignment and game problems.
Software Engineering	Students can explain needs for software specifications also they can classify different types of software requirements and their gathering techniques and they will be able to convert the requirements model into the design model and demonstrate use of software and user interface design principles.
Computer Graphics and Animations	Students can implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping. They can describe the importance of viewing and projections.

Semester-V

Course Name	Outcomes
Software Project Management	Students can compare and contrast the several existing solutions for research challenge 4. Demonstrate an ability to work in teams and manage the conduct of the research study.
Internet of Things	Students can apply the concepts of IOT and they can design and develop smart city in IOT. They can also analyze and evaluate the data received through sensors in IOT.
Advanced Web Programming	Students can apply three-tier architecture concepts and advanced database techniques in web applications. Students build sites that use session management.
Enterprise Java	Students will be able to identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem and can demonstrate how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.
Linux System Administration	Students will be able to identify the basic Linux general purpose commands; can implement shell scripts and sed. They can also apply and change the ownership and file

Semester-VI

Course Name	Outcomes
Software Quality Assurance	Students will be able to investigate the reason for bugs and analyze the principles in software testing to prevent and remove bugs and can implement various test processes for quality improvement
Security in Computing	Students develop a secure computer network plan. Students evaluate and recognize a problem as being a possible network security threat. Students collect information from Computer network logs.
Business Intelligence	Students can apply BI to solve practical problems -Analyze the problem domain, use the data collected in enterprise apply the appropriate data mining technique, interpret and visualize the results and provide decision support.

Principal of Geographic Information system	Students can apply basic graphic and data visualization concepts such as color theory, symbolization, and use of white space. They can demonstrate organizational skills in file and database management.
IT Service Management	Students will be able to recognize enterprise IT architecture for Information technology and can Describe the importance of IT enabled services and challenges and can also Identify strategic IT planning for software development.