

SE (Information Technology)	
Semester-I	
Course Name	Discrete Mathematics
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO 1	Formulate, apply formal proof techniques and solve the problems with logical reasoning.
CO 2	Analyze and evaluate the combinatorial problems by using probability theory.
CO 3	Apply the concepts of graph theory to devise mathematical models.
CO 4	Analyze types of relations and functions to provide solution to computational problems.
CO 5	Identify techniques of number theory and its application.
CO 6	Identify fundamental algebraic structures.

Course Name	Computer Organization and Logic Design
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO 1	Perform basic binary arithmetic & simplify logic expressions.
CO 2	Grasp the operations of logic ICs and Implement combinational logic functions using ICs.
CO 3	Comprehend the operations of basic memory cell types and Implement sequential logic Functions using ICs.
CO 4	Elucidate the functions & organization of various blocks of CPU.
CO 5	Understand CPU instruction characteristics, enhancement features of CPU.
CO 6	Describe an assortment of memory types (with their characteristics) used in computer systems and basic principle of interfacing input, output devices.

Semester-II	
Course Name	Engineering Mathematics- III
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO 1	Solve Linear differential equations, essential in modelling and design of computer-based systems.
CO 2	Apply concept of Fourier transform and Z-transform and its applications to continuous and discrete systems and image processing.
CO 3	Apply Statistical methods like correlation & regression analysis and probability theory for data analysis and predictions in machine learning.
CO 4	Solve Algebraic & Transcendental equations and System of linear equations using numerical techniques.
CO 5	Obtain Interpolating polynomials, numerical differentiation and integration, numerical solutions of ordinary differential equations used in modern scientific computing.

Course Name	Database Management System
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO 1	Define fundamental elements of database management systems.
CO 2	Describe the fundamental elements of relational database management systems and Design ER-models to represent simple database application scenarios.
CO 3	Populate relational database and formulate SQL queries on data.
CO 4	Improve the database design by normalization & to incorporate query processing.
CO 5	Illustrate ACID properties for transaction management & to describe concurrency control protocols.
CO 6	Understand recent trends in database technology.