



**DEPARTMENT OF COMPUTER ENGINEERING**

**2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated (SEM – III-IV – C – SCHEME)**

**2022 REGULATION-COURSE OUTCOMES**

SEMESTER	COURSE CODE	COURSE NAME	COURSE ID	COURSE OUTCOME
III	CSC301	Engineering Mathematics-III	CO 1	Understand the concept of Laplace transform and its application to solve the real integrals in engineering problems.
			CO 2	Understand the concept of inverse Laplace transform of various functions and its applications in engineering problems.
			CO 3	Expand the periodic function by using the Fourier series for real-life problems and complex engineering problems.
			CO 4	Understand complex variable theory, application of harmonic conjugate to get orthogonal trajectories and analytic functions.
			CO 5	Apply the concept of Correlation and Regression to the engineering problems in data science, machine learning, and AI.
			CO 6	Understand the concepts of probability and expectation for getting the spread of the data and distribution of probabilities.
III	CSC302	Discrete Structures and Graph Theory	CO 1	Understand the notion of mathematical thinking, mathematical proofs and to apply them in problem solving.
			CO 2	Ability to reason logically.
			CO 3	Ability to understand relations, functions, Diagraph and Lattice.
			CO 4	Ability to understand and apply concepts of graph theory in solving real world problems.
			CO 5	Understand use of groups and codes in Encoding-Decoding
			CO 6	Analyze a complex computing problem and apply principles of discrete mathematics to identify solutions
III	CSC303	Data Structure	CO 1	Students will be able to implement Linear and Non-Linear data structures.
			CO 2	Students will be able to handle various operations like searching, insertion, deletion and traversals on various data structures.
			CO 3	Students will be able to explain various data structures, related terminologies and its types.
			CO 4	Students will be able to choose appropriate data structure and apply it to solve problems in various domains.
			CO 5	Students will be able to analyze and Implement



**DEPARTMENT OF COMPUTER ENGINEERING**

**2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated (SEM – III-IV – C – SCHEME)**

**2022 REGULATION-COURSE OUTCOMES**

				appropriate searching techniques for a given problem.
			CO 6	Students will be able to demonstrate the ability to analyze, design, apply and use data structures to solve engineering problems and evaluate their solutions
III	CSC304	<b>Digital Logic &amp; Computer Organization and Architecture</b>	CO 1	To learn different number systems and basic structure of computer system.
			CO 2	To demonstrate the arithmetic algorithms.
			CO 3	To understand the basic concepts of digital components and processor organization.
			CO 4	To understand the generation of control signals of computer.
			CO 5	To demonstrate the memory organization.
			CO 6	To describe the concepts of parallel processing and different Buses..
III	CSC305	<b>Computer Graphics</b>	CO 1	Describe the basic concepts of Computer Graphics.
			CO 2	Demonstrate various algorithms for basic graphics primitives.
			CO 3	Apply 2-D geometric transformations on graphical objects.
			CO 4	Use various Clipping algorithms on graphical objects
			CO 5	Explore 3-D geometric transformations, curve representation techniques and projections methods.
			CO 6	Explain visible surface detection techniques and Animation.



**DEPARTMENT OF COMPUTER ENGINEERING**

**2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated (SEM – III-IV – C – SCHEME)**

**2022 REGULATION-COURSE OUTCOMES**

SEMESTER	COURSE CODE	COURSE NAME	COURSE ID	COURSE OUTCOME
IV	CSC401	Engineering Mathematics-IV	CO 1	Apply the concepts of eigenvalues and eigenvectors in engineering problems.
			CO 2	Use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.
			CO 3	Apply the concept of Z- transformation and inverse in engineering problems
			CO 4	Use the concept of probability distribution and sampling theory to engineering problems.
			CO 5	Apply the concept of Linear Programming Problems to optimization.
			CO 6	Solve Non-Linear Programming Problems for optimization of engineering problems.
IV	CSC402	Analysis of Algorithms	CO 1	Analyze the running time and space complexity of algorithms.
			CO 2	Describe, apply and analyze the complexity of divide and conquer strategy.
			CO 3	Describe, apply and analyze the complexity of greedy strategy.
			CO 4	Describe, apply and analyze the complexity of dynamic programming strategy.
			CO 5	Explain and apply backtracking, branch and bound.
			CO 6	Explain and apply string matching techniques
IV	CSC403	Database Management System	CO 1	Recognize the need of database management system
			CO 2	Design ER and EER diagram for real life applications
			CO 3	Construct relational model and write relational algebra queries.
			CO 4	Formulate SQL queries
			CO 5	Apply the concept of normalization to relational database design.
			CO 6	Describe the concept of transaction, concurrency and recovery.
IV	CSC404	Operating System	CO 1	Understand the objectives, functions and structure of OS
			CO 2	Analyze the concept of process management and evaluate performance of process scheduling Algorithms.
			CO 3	Understand and apply the concepts of



**DEPARTMENT OF COMPUTER ENGINEERING**

**2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated (SEM – III-IV – C – SCHEME)**

**2022 REGULATION-COURSE OUTCOMES**

				synchronization and deadlocks
			<b>CO 4</b>	Evaluate performance of Memory allocation and replacement policies
			<b>CO 5</b>	Understand the concepts of file management.
			<b>CO 6</b>	Apply concepts of I/O management and analyze techniques of disk scheduling.
<b>IV</b>	<b>CSC405</b>	<b>Microprocessor</b>	CO 1	Describe core concepts of 8086 microprocessor.
			CO 2	Interpret the instructions of 8086 and write assembly and Mixed language programs.
			CO 3	Identify the specifications of peripheral chip.
			CO 4	Design 8086 based system using memory and peripheral chips.
			CO 5	Appraise the architecture of advanced processors
			CO 6	Understand hyper threading technology