DEPARTMENT OF COMPUTER ENGINEERING

Academic year: 2023-24   **Semester: III**   **Branch: Computer**

Course Code	Course Name	COs
CSC301	**Engineering Mathematics-III**	Student will be able to: **CO1**. Understand the concept of Laplace transform and its application to solve the real integrals in engineering problems. **CO2**. Understand the concept of inverse Laplace transform of various functions and its applications in engineering problems. **CO3**. Expand the periodic function by using the Fourier series for real-life problems and complex engineering problems. **CO4**. Understand complex variable theory, application of harmonic conjugate to get orthogonal trajectories and analytic functions. **CO5**. Apply the concept of Correlation and Regression to the engineering problems in data science, machine learning, and AI. **CO6.** Understand the concepts of probability and expectation for getting the spread of the data and distribution of probabilities.
CSC302	**Discrete Structures and Graph Theory**	Student will be able to: **CO1**. Understand the notion of mathematical thinking, mathematical proofs and to apply them in problem solving. **CO2**. Ability to reason logically. **CO3**. Ability to understand relations, functions, Diagraph and Lattice. **CO4**. Ability to understand and apply concepts of graph theory in solving real world problems. **CO5**. Understand use of groups and codes in Encoding-Decoding **CO6**. Analyze a complex computing problem and apply principles of discrete mathematics to identify solutions

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CSC303	**Data Structure**	Student will be able to: **CO1**. Students will be able to implement Linear and Non-Linear data structures. **CO2**. Students will be able to handle various operations like searching, insertion, deletion and traversals on various data structures. **CO3**. Students will be able to explain various data structures, related terminologies and its types. **CO4**. Students will be able to choose appropriate data structure and apply it to solve problems in various domains. **CO5**. Students will be able to analyze and Implement appropriate searching techniques for a given problem. **CO6**. Students will be able to demonstrate the ability to analyze, design, apply and use data structures to solve engineering problems and evaluate their solutions.
CSC304	**Digital Logic & Computer Organization and Architecture**	Student will be able to: **CO1**. To learn different number systems and basic structure of computer system. **CO2.** To demonstrate the arithmetic algorithms. **CO3.** To understand the basic concepts of digital components and processor organization. **CO4.** To understand the generation of control signals of computer. **CO5.** To demonstrates the memory organization. **CO6.** To describes the concepts of parallel processing and different Buses.
CSC305	**Computer Graphics**	Student will be able to: **CO1**. Describe the basic concepts of Computer Graphics. **CO2**. Demonstrate various algorithms for basic graphics primitives. **CO3**. Apply 2-D geometric transformations on graphical objects. **CO4**. Use various Clipping algorithms on graphical objects **CO5**. Explore 3-D geometric transformations, curve representation techniques and projections methods. **CO6.** Explain visible surface detection techniques and Animation.