



COURSE OUTCOMES

Year/Semester: S.E/ III

Subject Code	Subject Name	CO's
CSC301	Engineering Mathematics III	At the end of the course 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	At the end of the course 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
CSC303	Data Structure	At the end of the course 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.



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CSC304	Digital Logic & Computer Organization and Architecture	At the end of the course 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 demonstrate the memory organization. CO6- To describe the concepts of parallel processing and different Buses.
CSC305	Computer Graphics	At the end of the course 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