



Semester – III

Unique Course Number: CSC301

Course Name: Engineering Mathematics-III

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC3011	Determine the Laplace transform of standard functions both from the definition and by using tables and select and use the appropriate theorems in finding Laplace Transform.
CSC3012	Use the appropriate theorems in finding Inverse Laplace Transform & use these techniques to solve ordinary differential equations.
CSC3013	Calculate real form of Fourier Series for standard periodic functions and to recognise even and odd functions and use the resulting simplifications for obtaining Fourier series.
CSC3014	Apply Complex Variable theory and Harmonic conjugate to get orthogonal trajectories and Analytic functions.
CSC3015	Determine the nature of relationship between two variables and predict the value of the response variable for the given values of the explanatory variable.
CSC3016	Use an appropriate probability distribution for a given discrete or continuous random variable and use its properties to calculate probabilities.

Unique Course Number: CSC302

Course Name: Discrete Structures and Graph Theory

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC3021	Apply the notion of mathematical thinking, mathematical proofs and to use them in problem solving.
CSC3022	Explain concepts of logic for problem solving.
CSC3023	Demonstrate the concepts of relations, functions, Diagraph and Lattice.
CSC3024	Illustrate concepts of graph theory in solving real world problems.
CSC3025	Apply the knowledge of groups and codes In Encoding-Decoding.
CSC3026	Analyze a complex computing problem and apply principles of discrete mathematics to identify solutions.

Unique Course Number: CSC303

Course Name: Data Structure

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC3031	Discuss various data structures, related terminologies and its types.
CSC3032	Demonstrate the working of various Linear data structures
CSC3033	Represent & manipulate the data using non-linear data structure
CSC3034	Select appropriate searching technique for a given problem
CSC3035	Recommend the data structures to solve the problems.

Unique Course Number: CSC304

Course Name: Digital Logic & Computer Architecture

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC3041	Learn different number systems and basic structure of computer system.
CSC3042	Demonstrate the arithmetic algorithms.
CSC3043	Understand the basic concepts of digital components and processor organization.
CSC3044	Understand the generation of control signals of computers.
CSC3045	Demonstrate the memory organization.
CSC3046	Describe the concepts of parallel processing and different Buses.



Unique Course Number: CSC305

Course Name: Computer Graphics

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSC3051	Describe the basic concepts of Computer Graphics.
CSC3052	Demonstrate various algorithms for basic graphics primitives.
CSC3053	Apply 2-D geometric transformations on graphical objects.
CSC3054	Use various Clipping algorithms on graphical objects
CSC3055	Explore 3-D geometric transformations, curve representation techniques and projections methods.
CSC3056	Explain visible surface detection techniques and Animation.

Unique Course Number: CSL301

Course Name: Data Structure Lab

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL3011	Implement linear data structures & be able to handle operations like insertion, deletion, searching and traversing on them.
CSL3012	Implement Non-linear data structures & be able to handle operations like insertion, deletion, searching and traversing on them.
CSL3013	Select appropriate data structure and apply it in various problems
CSL3014	Select appropriate searching techniques for given problems.
CSL3015	Demonstrate problem solving capabilities by applying various learned concepts of Data Structure to real life cases.

Unique Course Number: CSL302

Course Name: Digital Logic & Computer Architecture Lab

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL3021	Understand various types of codes and their conversion.
CSL3022	Understand the principles of combinational logic design.
CSL3023	Implement various algorithms for arithmetic operations.
CSL3024	Design the basic building blocks of a computer: ALU, registers, CPU and memory
CSL3025	Understand the logic of flip flops and its conversion.
CSL3026	Understand various types of codes and their conversion.

Unique Course Number: CSL303

Course Name: Computer Graphics Lab

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL3031	Implement various output primitive algorithms.
CSL3032	Use and apply various filled area primitive algorithms.
CSL3033	Apply various transformation algorithms on 2D graphical objects
CSL3034	Apply clipping algorithms on 2D graphical objects.
CSL3035	Perform curve and fractal generation methods.
CSL3036	Develop a Graphical application/Animation based on learned concept

Unique Course Number: CSL304

Course Name: Skill base Lab course: Object Oriented Programming with Java

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSL3041	Apply fundamental programming constructs.
CSL3042	Identify classes, objects, members of a class and relationship among them needed for a specific problem and write java application using OOP principles and packages
CSL3043	Demonstrate the concept of array, strings and vector.
CSL3044	Implement the concept of inheritance and interfaces.
CSL3045	Implement the notion of exception handling and multithreading.
CSL3046	Develop GUI based applications.

**Unique Course Number: CSM301****Course Name: Mini Project – 1 A**

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
CSM3011	Identify problems based on societal / research needs & Analyze the impact of solutions in societal and environmental context for sustainable development.
CSM3012	Apply Knowledge and skill to solve societal problems in a group.
CSM3013	Develop Interpersonal Skill to Work as a member of a group or a leader, which leads to life long learning.
CSM3014	Draw the proper inferences from available results through theoretical/experimental/simulations.
CSM3015	Excel in written and oral communication.
CSM3016	Demonstrate Project Management Principle during project work and standard norms of engineering practices