Shri SantGajananMaharaj College of Engineering, Shegaon

Department of Information Technology

Course Outcomes (CO)

Academic Year-2023-24

Year: 2N Semester-Autumn (III)

Subject: Engineering Mathematics-III **Subject Code:3IT01**

CO1: Solve the Linear Differential equations with constant coefficients by various methods.

CO2: Find Laplace Transform of various types of functions and also able to find Laplace Transform of Periodic, Impulse & Unit step function. Use Laplace Transform to solve Linear Differential equations with constant coefficients.

CO3: Find Z Transform of various types of functions and apply this knowledge to solve the Linear Difference equations with constant coefficients.

CO4: Find Fourier Transform of various types of functions. Also find the solution of partial differential equations of first order.

CO5: Test the function for analyticity; find the harmonic conjugate, and able to expand the function in Taylor's or Laurent's series, find conformal mapping.

CO6: Differentiate vector point functions, find gradient of scalar point function, and find curl and divergence of vector point function. Integrate vector point functions Evaluate line, surface and volume integrals.

Subject: Discrete Structures and Graph Theory **Subject Code:3IT02**

CO1: After successfully completing the course, the students will be able to demonstrate the basic terminologies of mathematical logic, theory of inference and set theory.

CO2: After successfully completing the course, the students will be able to apply mathematical logic, inference theory and set theory, to solve engineering problems.

CO3: After successfully completing the course, the students will be able to apply algebraic structures, grammar, polish expressions and lattices to solve the mathematics expressions.

CO4: After successfully completing the course, the students will be able to apply the lattices for partially ordered relations and Boolean algebraic simplification methods to minimize the Boolean functions

CO5: After successfully completing the course, the students will be able to analyze graphs based on various parameters for graph manipulation and storage representation.

Subject: Object Oriented Programming **Subject Code:3IT03**

CO1: Use the fundamental concepts of Java(L3)

CO2: Apply concepts of class and objects and arrays in Java(L3)

CO3: Apply concepts of class and objects and arrays in Java(L3)

CO4: Use concepts of exceptions and perform the various operations

CO5: Apply concepts of applet,event handling and abstract window tool kit in Java(L3)

Subject: Assembly Language Programming Subject Code:3IT04

CO1: Illustrate the organization of register & memory in 8086 microprocessor.

CO2: Analyse different instruction format & addressing modes in 8086.

CO3: Apply the concept of control flow instruction in 8086 programming.

CO4: Demonstrate the stack & sub routine concept in 8086 programming.

CO5: Explore how I/P interface & interrupt interacted with microprocessor

Subject: Analog and Digital Electronics Subject Code:3IT05

CO1: Understand the basic applications of BJT.

CO2: Get acquainted with analog ICs like Op-Amp IC-741 and Timer IC-555

CO3: Discriminate the working of sinusoidal and non-sinusoidal waveform generators.

CO4: Apply the concept of K-map to simplify logic expressions.

CO5: Design and implement Combinational circuits

CO6: Explore the applications of Sequential circuits