

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Department of Humanities & Sciences (ME&CE)
I Year II Semester – R18
Course outcomes

Mathematics -II/ A22006	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Classify the various types of differential equations of first order and first degree and apply the concepts of differential equations to the real world problems.
CO2	Solve higher order differential equations and apply the concepts of differential equations to the real world problems.
CO3	Find the Laplace Transform of various functions and apply to find the solutions of differential equations.
CO4	Evaluate the multiple integrals and identify the vector differential operators physically in engineering problems.
CO5	Evaluate the line, surface and volume integrals and converting them from one to another by using vector integral theorems.

Engineering Physics/ A22007	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Interpret the forced damped harmonic oscillations and Transverse waves.
CO2	Identify various optical phenomena of light.
CO3	Explain the working principle of optical fibers and lasers.
CO4	Describe the crystalline structures of solids.
CO5	Classify magnetic and dielectric behavior of materials.

Engineering Graphis & Modelling/ A22302	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand the concepts of engineering drawing of planes, solids and the CAD drawing software.
CO2	Applying the principles of engineering graphics while drawing the engineering components.
CO3	Analyze the sectional views for their configurations.
CO4	Evaluate the surfaces of solids developed for further processing in the engineering applications.

Engineering Mechanics/ A22303	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand the concepts of engineering mechanics
CO2	Apply the laws of mechanics for various engineering applications
CO3	Analyze the motion of body
CO4	Evaluate performance of various engineering components in terms of their energy capacities

Programming for Problem Solving II/ A22502	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Identify various string handling functions in 'C'.
CO2	Develop programs with user defined data types.
CO3	Use Dynamic memory allocation functions with pointers.
CO4	Distinguish between Stacks and Queues.
CO5	Analyze various Dynamic Data Structures.

English Communication Skills Lab/ A22084	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand the variants in pronunciation.
CO2	Identify the diverse purposes of listening and speaking.
CO3	Discuss ideas in diverse communicative settings.
CO4	Exhibit increased confidence in public speaking.
CO5	Display critical thinking, problem solving and decision making skills through GD's.

Engineering Physics Lab/ A22085	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Characterize the mechanical properties of given material.
CO2	Demonstrate various types of oscillation and rotational motion to determine mechanical parameters.
CO3	Evaluate the magnetic Induction along the axis of current carrying coil.
CO4	Apply optical phenomena to characterize optical sources and components.
CO5	Characterize LCR and RC circuits.

Programming for Problem Solving II Lab/ A22502	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Build programs on various string handling functions.
CO2	Develop applications on user defined data types.
CO3	Apply dynamic memory allocation through pointers.
CO4	Implement linear data structures through stacks and queues.
CO5	Create linked list dynamically through stacks and queues.

