VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Department of Humanities & Sciences (EEE)

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 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.

Basic Electrical Engineering/ A22202	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand the fundamentals of basic circuit components and their characteristics.
CO2	Analyze basic electrical circuits with A.C excitation.
CO3	Understand the concepts of magnetic circuits and transformers.
CO4	Acquire the basic concepts of electrical motors.
CO5	Understand the concept of A.C generator and low voltage electrical installations.

Basic Electrical Engineering Lab/ A22282	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Get an exposure to basic electrical laws.
CO2	Understand the response of different types of electrical circuits to different excitations.
CO3	Understand the measurement, calculation and relation between the basic electrical parameters.
CO4	Understand the performance characteristics of D.C electrical machines.
CO5	Understand the performance characteristics of A.C electrical machines.

Engineering Graphics & Modeling/ 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.

English Communication Skills Lab (ECSL)/ 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.

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.

Programming For Problem Solving Lab-II/ A22582	
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.