

Vidya Jyothi Institute of Technology

Department of Humanities & Sciences (EEE)

I Year II Semester – R22

Course Outcomes

Course Name: Mathematics-II/ A222005

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	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.
CO 2	Solve higher order differential equations and apply the concepts of differential equations to the real world problems.
CO 3	Find the Laplace Transform of various functions and apply to find the solutions of differential equations.
CO 4	Evaluate the multiple integrals and identify the vector differential operators physically in engineering problems.
CO 5	Evaluate the line, surface and volume integrals and converting them from one to another by using vector integral theorems.

Course Name: Engineering Chemistry/ A222006

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Understand the basic properties of water and its usage in domestic and industrial purposes.
CO 2	Acquire the basic knowledge of electrochemical procedures related to corrosion and its control.
CO 3	Learn the fundamentals and general properties of polymers and other engineering materials.
CO 4	Acquire knowledge of various energy sources.

CO 5	Apply the knowledge of engineering materials in daily life.
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Course Name: Engineering Chemistry Lab/ A222084

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Determination of parameters like hardness and chloride content of water.
CO 2	Determination of rate of corrosion of mild steel in various conditions.
CO 3	To perform methods such as conductometry, potentiometry and pH metry in order to find out the concentrations or equivalence points of acids and bases.
CO 4	To prepare polymers like Thiokol and Nylon-6.
CO 5	Estimation of Saponification value, Viscosity and surface tension of lubricant oils.

Course Name: Electric Circuits / A222203

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Understand the fundamentals of basic circuit components, laws and their usage.
CO 2	Apply basic electrical circuit concepts.
CO 3	Analyze locus diagrams of RL and RC circuits
CO 4	Use Network theorems to solve electrical circuits.

CO 5	. Evaluate networks using topology and assess inductance in coupled circuits
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Course Name: Electric Circuits Lab / A222282

After completing this course the student must demonstrate the knowledge and ability to	
CO1	Use Ohms law and other electrical concepts to design circuits.
CO2	Verify network theorems.
CO3	Analyze electrical circuits with the help of mesh and nodal analysis.
CO4	Assess the operation of electrical circuits.
CO5	Outline the parameters of various electrical circuits.

Course Name: Engineering Graphics & Modelling /A222303

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Comprehend the concepts of engineering drawing and CAD software.
CO 2	Conceptualize and draw the projections of points and straight lines
CO 3	Visualize and project different views of a planes and solids.
CO 4	Evaluate the surfaces of solids developed for further processing in the engineering applications.
CO 5	Generate isometric and corresponding orthographic views of any given component.

Course Name:Python Programming Lab / A222583

After completing this course the student must demonstrate the knowledge and ability to

CO 1	Develop the application specific codes using python.
CO 2	Understand Strings, Lists, Tuples and Dictionaries in Python
CO 3	Implement programs using modular approach, file I/O, Python standard library

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PRINCIPAL