

Vidya Jyothi Institute of Technology

Department of Humanities & Sciences (ECE)

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: Basic Electrical Engineering / A222204

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Understand basic principles of electrical elements.
CO 2	Apply the concepts of AC circuits to various elements and combinations.
CO 3	Examine principle and tests of transformer.
CO 4	Contrast the working of DC machines and induction motors.

CO 5	Asses working principle of AC Generator and electrical installations.
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Course Name: Basic Electrical Engineering Lab / A222283

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Understand basic electrical laws.
CO 2	Analyze the response of different types of electrical circuits to different excitations.
CO 3	Apply electric laws and find out performance of various electrical machines.
CO 4	Assess the losses in electrical machines.
CO 5	Evaluate the performance of electrical circuits and electrical machines.

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

Course Name: Electronics Devices & Circuits /A222402

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Acquire the knowledge of various electronic devices and their use on real life.
CO 2	Know the applications of various devices.
CO 3	Acquire the knowledge about the Bipolar Junction Transistor.
CO 4	Acquire the knowledge about the Field Effect Transistor.
CO 5	Acquire the knowledge about the role of special purpose devices and their applications.

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