

Vidya Jyothi Institute of Technology

Department of Humanities & Sciences (CSE,AI,AI&DS,CSE(DS),CSE(AI&ML))

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: Applied Physics/ A222007

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Understand various optical phenomena of light.
CO 2	Apply the basic principles of quantum mechanics to classify solids based on the band theory.
CO 3	Elucidate the characteristics of semi conductors and semi conductor devices .

CO 4	Apply the knowledge of nanotechnology for societal applications.
CO 5	Explain the working principle of lasers and optical fibers.

Course Name:Applied Physics Lab / A222085

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Apply optical phenomena to characterize optical sources and components.
CO 2	Characterize semiconductors and semiconductor devices.
CO 3	Study transient response of RC circuit and resonance mechanisms in mechanical and electrical systems.
CO 4	Collect data and evaluate the outcomes of an experiment quantitatively and qualitatively.
CO 5	Carryout experimental data analysis.

Course Name:English for Skill Enhancement / A222008

After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand the importance of vocabulary and sentence structures.
CO2	Choose appropriate vocabulary and sentence structures for oral and written communication.
CO3	Demonstrate understanding of the rules of functional grammar.
CO4	Develop comprehension skills from the known and unknown passages through effective reading strategies.
CO5	Construct paragraphs, letters, essays, abstracts, précis and reports in various contexts thereby improving proficiency in writing modules of English.

Course Name:English Language & Communication Skills Lab / A222086

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Reproduce speech sounds and improve language
CO 2	Develop accent and pronunciation in various situations
CO 3	Understand variants in pronunciation by differentiating between British and American accents
CO 4	Identify the diverse purposes of listening and speaking
CO 5	Exhibit critical thinking, problem-solving and decision-making skills through Group Discussions

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.

Course Name:Python Programming Lab / A222583

After completing this course the student must demonstrate the knowledge and ability to
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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: Engineering Workshop / A222382

After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understanding the tools and methods of using to fabricate engineering Components.
CO2	Applying the measuring techniques to verify the dimensional accuracy.
CO3	Evaluating various methods and trades of workshop in the component building.

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PRINCIPAL