Vidya Jyothi Institute of Technology

Department of Humanities & Sciences (ECE)

I Year I Semester – R22

Course outcomes

Course Name: Mathematics-I/ A221001

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Write the matrix representation of system of linear equations and identify the consistency of the system of equations.
CO 2	Find the Eigen values and Eigen vectors of the matrix and discuss the nature of the quadratic form.
CO 3	Analyze the convergence of sequence and series.
CO 4	Discuss the applications of mean value theorems to the mathematical problems, Evaluation of improper integrals using Beta and Gamma functions.
CO 5	Examine the extrima of functions of two variables with/ without constraints.

Course Name: Applied Physics/ A221002

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/ A221081**

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 / A221003**

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Understand the importance of vocabulary and sentence structures.
CO 2	Choose appropriate vocabulary and sentence structures for oral and written communication.
CO 3	Demonstrate understanding of the rules of functional grammar.

CO 4	Develop comprehension skills from the known and unknown passages through effective reading strategies.
CO 5	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 / A221082**

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**: C Programming for Engineers / A221501**

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Design Algorithms and Flowcharts for real world applications.
CO 2	Know various operators and decision statements for program development.
CO 3	Design programs involving iteration statements and code reusability using Functions.
CO 4	Develop programs using arrays and identify various string handling functions.
CO 5	Analyse various searching and sorting techniques.

Course Name:**C Programming for Engineers Lab / A221581**

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Design Algorithms and Flowcharts for real world applications.
CO 2	Know various operators and decision statements for program development.
CO 3	Design programs involving iteration statements and code reusability using Functions.
CO 4	Develop programs using arrays and identify various string handling functions.
CO 5	Analyse various searching and sorting techniques.

Course Name**: Elements of Electronics & Communication Engineering / A221401**

After completing this course the student must demonstrate the knowledge and ability to	
CO 1	Identify Different components used for electronics application.
CO 2	Measure the different parameter using various measuring instruments
CO 3	Distinguish various signal used for analog and digital communication
CO 4	Identify the pin configuration of IC's
CO 5	Acquire knowledge in various software's of ECE

Course Name**: Engineering Workshop / A221381**

	After completing this course the student must demonstrate the knowledge and ability to
CO 1	Understanding the tools and methods of using to fabricate engineering Components.
CO 2	Applying the measuring techniques to verify the dimensional accuracy.
CO 3	Evaluating various methods and trades of workshop in the component building.

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