VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Department of Humanities & Sciences (CSE,CSE(DS),AI&IT)
<u>I Year II Semester – R20</u>
Course outcomes

Mathematics-II / A42007	
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.

Applied Physics/ A42008	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Identify various optical phenomena of light
CO2	Discuss the basic principles of quantum mechanics
CO3	Classify solids based on the band theory
CO4	Elucidate the characteristics of semiconductors and semiconductor devices
CO5	Explain the working principle of optical fibers and lasers

Physics Lab/ A42085	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Apply optical phenomena to characterize optical sources and components.
CO2	Characterize semiconductors and semiconductor devices.
CO3	Study transient response of RC circuit.
CO4	Study the properties and resonance mechanisms in mechanical and electrical systems.
CO5	Evaluate the magnetic Induction along the axis of current carrying coil.

English/ A42006	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Infer the importance of scientific discoveries in promoting social responsibilities.
CO2	Comprehend the given texts and respond appropriately for technical and professional purposes.
CO3	Communicate confidently and transfer information into various forms of writing.
CO4	Understand the importance of health and nutrition for a better society.
CO5	Present various forms of business writing skills for successful careers.

English Communication Skills Lab/ A42084	
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/ A42502	
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 -II Lab/ A42582	
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.

Engineering Graphics & Modeling/ A42302	
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.