VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
Department of Humanities & Sciences (EEE)
<u>I Year II Semester – R15</u>
Course outcomes

English-II/A12005	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Acquire the real life skills in the light of literature.
CO2	Develop managerial skills for successful careers. By making critical decisions
CO3	Demonstrate physical and mental fitness with true sportsman spirit.
CO4	Build collaborative knowledge and cultivate social responsibility.
CO5	Enhance communication skills through grammar, vocabulary with emphasis on LSRW skills.

Mathematics-II/A12006	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Solve first order differential equations and their applications.
CO2	Identify different types of higher order differential equations and their applications in engineering problems
CO3	Apply Fourier series and defining it for various types of functions
CO4	Evaluating the Fourier transforms of functions of single variable
CO5	Justify integrals of functions or vector-related quantities over curves, surfaces, and domains in two- and three-dimensional space.

Engineering Physics-II/A12007	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand the principles of Quantum mechanics & free electron theory.
CO2	Differentiate the types of solids based on band theory of solids and to understand the applications of optical fibers in various fields.
CO3	Explain the basics of semiconductors and semiconductor devices
CO4	Explain superconductivity and their applications in modern technology
CO5	Identify the importance of Nanomaterials in various fields

C Programming -II /A12503	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Develop various sorting and searching algorithms
CO2	Design solutions using derived data types and user defined data types- structures, arrays, pointers
CO3	Develop programs on dynamic memory allocation for effective memory utilization
CO4	Implement linear data structures-list, stack and queue
CO5	Apply various file handling techniques for better data management

Mathematics -III/A12009	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Solve engineering problems involving Algebraic and transcendental equations
CO2	Acquires the knowledge of interpolation in predicting future out comes based on the present knowledge
CO3	Evaluating the Numerical Solutions for Integrals and Fitting of different types of curves to the given data
CO4	Solve Initial Value Problems by Numerical Methods
CO5	Explain the applications of Partial Differential Equations

Electrical Circuit Theory /A12202	
After completing this course the student must demonstrate the knowledge and ability to	
CO1	Understand fundamentals of the basic circuit components &their characteristics
CO2	Analyze A.C circuits for different excitations
CO3	Understand the concepts of locus diagrams ,resonance, magnetic circuits
CO4	Analyze network topology for planar networks and dual networks
CO5	Analyze D.C and A.C circuits using theorems

English Language Communication Skills Lab-II/A12085

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

CO1	Build the language proficiency in English with emphasis on LSRW skills.
CO2	Develop communication skills through various language learning activities.
CO3	Summarize the nuances of English speech sounds, stress, rhythm, intonation and syllable division.
CO4	Acquire and exhibit acceptable etiquette essential in social & professional settings.
CO5	Improve the fluency in spoken English and neutralize mother tongue influence.

C Programming   Lab- II/A12584

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

CO1	Develop various sorting and searching algorithms
CO2	Design solutions using derived data types and user defined data types- structures, arrays, pointers
CO3	Develop programs on dynamic memory allocation for effective memory utilization
CO4	Implement linear data structures-list, stack and queue
CO5	Apply various file handling techniques for better data management

Engineering Physics Lab/A12088

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

CO1	Estimate the numerical aperture of optical fibers
CO2	Visualize the fundamental optical phenomenon like Interference and diffraction
CO3	Study the basic Electrical characteristics of LCR circuit
CO4	Calculate the moment of inertia of Fly wheel and frequency of AC source using sonometer.
CO5	Study the characteristics of photodiode and to calculate the band gap of a given semiconductor diode