



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY [A]: HYDERABAD
COURSE OUTCOMES SEMESTER-I 2024-25 (COMMON TO CSE-AI&ML , IT,CIVIL
,MECH & ECE)

MATHEMATICS-I		BT Level
C111.1	Test the nature of Sequence and series	BTL3
C111.2	Familiarize with the function of single variable and calculate curvature, radius of curvature.	BTL3
C111.3	Determine the limit, continuity, partial derivatives, Jacobian for the functions of two and three variables.	BTL3
C111.4	Investigate the maxima and minima of function of several variables	BTL4
C111.5	Evaluate double and triple integration and learn its applications	BTL3
C111.6	Utilize and apply the concepts of Vector differentiation, gradient, curl and divergence and its integration	BTL4
ENGINEERING CHEMISTRY		BT Level
C112.1	Identify and analyse the fundamental principles of electrochemical cells, and describe their role in the designing of batteries.	BTL 3
C112.2	Illustrate various methods used in treatment of water and corrosion in domestic and industrial use.	BTL 3
C112.3	Describe the various synthetic methods used in engineering materials.	BTL 2
C112.4	Analyze the structure, properties, and uses of conducting and biodegradable Polymers.	BTL 3
C112.5	Classify and understand properties and uses of fuels.	BTL 2
C112.6	Apply the principles of green chemistry to synthesize biodiesel and composite materials towards sustainable environment.	BTL3
PYTHON PROGRAMMING		BT Level
C113.1	Develop essential programming skills in computer programming concepts like data types, containers.	BTL3
C113.2	Apply the concepts of functions and modules.	BTL3
C113.3	Understand the concepts of data structures using list,tuples	BTL2
C113.4	Demonstrate programs with the help of dictionaries to solve the problems.	BTL2
C113.5	Acquire coding tasks related to the fundamental notions and techniques used in object-oriented programming	BTL4
C113.6	Write programs related to numpy array and get to know the pandas data frame	BTL4

ENGLISH FOR PROFESSIONAL COMMUNICATION		BT Level
C114.1	Read and write the content meaningfully	BTL3
C114.2	Comprehend the given texts and respond appropriately	BTL2
C114.3	Improves proficiency in vocabulary relatively	BTL3
C114.4	Demonstrate grammar structure precisely in writing sentences and paragraphs	BTL3
C114.5	Undertake various types of writing confidently	BTL2
UNIVERSAL HUMAN VALUES		BT Level
C115.1	Understand the significance of human values and value education completely.	BTL-2
C115.2	Evaluate happiness and prosperity of ' I ' with the body utterly.	BTL- 2
C115.3	Identify the role of harmony in family, society and nature thoroughly.	BTL-2
C115.4	Analyze the holistic perception of Harmony totally.	BTL -2
C115.5	Compare and contrast between social conduct, ethics, trust and mutual human behavior elaborately.	BTL-3
C115.6	Adapt professional ethics in their streams of technology effectively.	BTL-1
INDIAN CONSTITUTION		BT Level
C116.1	Interpret the background of the present constitution of India thoroughly	BTL-2
C116.2	Recognize efficiently the working of the Union, State and Local government	BTL- 2
C116.3	Identify the fundamental rights completely	BTL-2
C116.4	Apply fundamental duties in their life utterly	BTL-3
C116.5	Examine the relation between union and state policies carefully	BTL-4
C116.6	Discuss the role of Election Commission of India elaborately	BTL-2
ENGINEERING CHEMISTRY LAB		BT Level
C117.1	Estimate the amount of Ferrous ions by volumetric analysis.	BTL 3
C117.2	Calculate the total hardness and alkalinity of water.	BTL 4
C117.3	Identify the mobility of ions in strong acids and weak acids using conductivity meter.	BTL 3
C117.4	Estimate the concentration and amount of chemical substances by using potentiometer.	BTL 4
C117.5	Apply the principles of Colorimetry and verify Beer- Lambert's law.	BTL 4

C117.6	Demonstrate and understand the chemical kinetics and determine the amount of synthesized drug.	BTL 2
PYTHON PROGRAMMING LAB		BT Level
C118.1	Summarize the fundamental concepts of Python programming.	BTL1
C118.2	Build user-defined functions and modules to improve code reusability.	BTL3
C118.3	Implement data structures lists and tuple for manipulating data. .	BTL3
C118.4	Implement data structures dictionaries for manipulating data. .	BTL.3
C118.5	Interpret file handling and object-oriented programming in Python	BTL4
C118.6	Apply suitable libraries to solve simple problems. .	BTL3
EFFECTIVE COMMUNICATION SKILS LAB		BT Level
C119.1	Listen and interpret spoken language productively	BTL-2
C119.2	Speak English with neutralized pronunciation, stress and intonation	BTL-3
C119.3	Present themselves confidently in formal and informal situations	B TL-2
C119.4	Expand critical thinking and acknowledge team work effectively	BTL-3
C119.5	Develop creativity and speak confidently in individual and group activity	BTL-3
C119.6	Create formal presentations dynamically	BTL-3
ENGINEERING AND IT WORKSHOP		
C1110.1	Differentiate the tools and Fabricate components with their own hands.	BTL2
C1110.2	Examine the dimensional accuracies and dimensional tolerances possible with different manufacturing processes.	BTL1
C1110.3	Perform the Assembling of different components and will be able to produce small mechanisms/devices of their interest.	BTL6
C1110.4	Demonstrate experiments of blacksmithy, plumbing, carpentry, tinsmithy, fitting, house wiring.	BTL3
C1110.5	Select different Engineering Materials and Manufacturing Methods.	BTL4
C1110.6	Develop different techniques used in Workshop and chooses the best material/ manufacturing process for the application.	BTL6

Faculty Incharge

Dean 1st Year



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ENGINEERING PHYSICS		
C112.1	Demonstrate crystals based on their structure and their appropriate uses.	BTL3
C112.2	Illustrates working of lasers and optical fibers in high-speed communication.	BTL2
C112.3	Analyze the wave nature of matter and to develop the skills in designing the various electronic devices.	BTL4
C112.4	Apply band theory to materials and analyze the properties of semiconductors.	BTL3
C112.5	Distinguish the materials and can justify their application in divergent fields.	BTL2
C112.6	Analyze the dielectric properties of the materials and apply nanoscience in new technological devices.	BTL3
PROGRAMMING FOR PROBLEM SOLVING		BTL
C113.1	Illustrate basic concepts of programming, algorithms, and flowchart and apply it for problem solving	BTL2
C113.2	Implement conditional branching and iterations for programming and usage of data	BTL3
C113.3	Apply the programming approach for implementation of algorithms like searching and sorting	BTL3
C113.4	Decompose the problem using modular approach with help of	BTL3
C113.5	Analyze the usage of structure and recursion concepts.	BTL4
C113.6	Understand the concept of file handling and pointers for storage and implementation of data.	BTL2
BASIC ELECTRICAL ENGINEERING		BTL
C114.1	Apply the concepts of Kirchhoff's laws and their application various theorems to get solution of simple DC circuits.	BTL3

C114.2	To analyze basic Electric and Magnetic circuits	BTL4
C114.3	Apply the concepts of AC circuits to various elements and combinations.	BTL3
C114.4	Predict the steady state response of RLC circuits with AC single phase/three phase supply.	BTL2
C114.5	Describe the construction, working principle of DC machine and 1- \emptyset Transformer .	BTL2
C114.6	Comprehend the working principles of Electrical AC machines.	BTL2
ENVIRONMENTAL SCIENCES		BTL
C115.1	Identify and analyze multidisciplinary nature of environment and classify the natural resources	BTL 2
C115.2	Classify various biotic and abiotic components and function of an ecosystems.	BTL 2
C115.3	Identify the threats and values of Biodiversity.	BTL 2
C115.4	Illustrate the causes, effects and control measures of various types of environmental pollution	BTL 2
C115.5	Apply the knowledge of environmental ethics and contribute to the environmental disaster management.	BTL 3
C115.6	Illustrate the different conservation techniques of biological diversity	BTL 3
ENGINEERING PHYSICS LAB		BTL
C116.1	Apply the basic principles of lasers and optical fibers to determine wavelength and numerical aperture.	BTL3
C116.2	Apply the electrical properties to evaluate the energy band gap of the the semiconductors.	BTL3
C116.3	Estimate the carrier concentration of semiconductor materials by applying Hall effect principle.	BTL3
C116.4	Illustrate the basic knowledge of semiconductors and understand the I-V characteristics of p-n junction diode, solar cell and LED devices.	BTL2
C116.5	Analyze the temperature dependence on resistance by Thermistor Experiment.	BTL4
C116.6	Demonstrate the concept of rigidity modulus through Torsional pendulum.	BTL3
PROGRAMMING FOR PROBLEM SOLVING LAB		BTL
C117.1	Select appropriate data type for implementing programs in C language.	BTL1
C117.2	Design and implement programs involving input output operations, decision making and looping constructs.	BTL3
C117.3	Apply search and sort operations on arrays	BTL3
C117.4	To develop modular reusable code using the concept of functions and recursion.	BTL3
C117.5	Implement programs on dynamic memory management and string handling using concept of pointers.	BTL3
C117.6	Implement programs to store data in structures and files.	BTL2
BASIC ELECTRICAL ENGINEERING LAB		BTL
C118.1	Comprehend the circuit analysis techniques using various circuitual laws.	BTL3

C118.2	To Analyse the response of DC Excitation of Various Theorems	BTL4
C118.3	To analyze basic Electro Magnetic circuits	BTL4
C118.4	Analyse the relation between various electrical parameters in AC Circuits	BTL4
C118.5	Test the basic characteristics of transformers and electrical machines.	BTL3
C118.6	Find the Efficiency of the DC and AC machines.	BTL4
ENGINEERING GRAPHICS & DESIGN PRACTICE		BTL
C119.1	Identify basics of Dimensioning, lettering and use of different drawing instruments.	BTL1
C119.2	Demonstrate different geometric methods to construct conics & engineering curves.	BTL2
C119.3	Apply the concept of Orthographic projection and projection of lines and planes to develop physical objects	BTL3
C119.4	Analyze the need of projection of solids and section of solids in real world using CAD tools.	BTL4
C119.5	Evaluate the development of surfaces of right regular solids (Prisms, Pyramids, cylinder and Cone) using CAD tools.	BTL5
C119.6	Create the Isometric view from Orthographic view and vice versa using CAD tools.	BTL6

