



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY [A]: HYDERABAD
COURSE OUTCOMES
SEMESTER-I
2023-24
(COMMON TO CSM, AIML , IT, ECE)

INDIAN CONSTITUTION	
C111.1	Recall the background of the present constitution of India thoroughly
C111.2	Recognize efficiently the working of the Union, State and Local government
C111.3	Identify the fundamental rights and duties completely
C111.4	Examine the relation between union and state policies carefully
C111.5	Discuss the role of Election Commission of India elaborately
MATHEMATICS-I	
C112.1	Test for the nature of Sequence and series
C112.2	Calculate the problems on single variable, curvature, evaluates and envelopes and different series
C112.3	Determine the limit, continuity, partial derivatives, Jacobian and maxima and minima of function of several variables
C112.4	Evaluate double and triple integration and learn its applications
C112.5	Utilize and apply the concepts of Vector differentiation, gradient, curl and divergence and its integration
C112.6	Solve engineering problems with the help of Mathematics tool
ENGINEERING CHEMISTRY	
C113.1	Apply the concept of electro analytical techniques and working with batteries.
C113.2	Identify & analyzed different parameters of water and explain the methods used in water treatment.
C113.3	Differentiate the environmental impact of corrosion on materials and understanding the corrosion control methods.
C113.4	Explain the properties and applications of different types of polymers and their engineering applications.
C113.5	Understand and explain different types of fossil fuel and their uses.
C113.6	Apply the principles of green chemistry and to analyze environmental impact of chemical process towards the sustainable development.
BASIC ELECTRICAL ENGINEERING	
C114.1	Analyze the DC electrical circuits and measure the parameters of electrical energy.
C114.2	Understand the concepts of electromagnetism.
C114.3	Analyze the AC electrical circuits and measure the parameters of electrical energy.
C114.4	Comprehend the working principle and construction of DC machines and transformers.
C114.5	Comprehend the working principle and construction of AC machines namely Induction motor & Synchronous generator.

ENGLISH FOR PROFESSIONAL COMMUNICATION	
C115.1	Read and write the content meaningfully
C115.2	Comprehend the given texts and respond appropriately
C115.3	Improves proficiency in vocabulary relatively
C115.4	Demonstrate grammar structure precisely in writing sentences and paragraphs
C115.5	Undertake various types of writing confidently
ENGINEERING CHEMISTRY LAB	
C116.1	Estimate the amount of Ferrous ions.
C116.2	Calculate the total hardness and alkalinity of water.
C116.3	Identify the mobility of ions in strong acids and weak acids using conductivity meter.
C116.4	Analyse cell potential of a given solution and determine the strength of solution.
C116.5	Apply the principles of Colorimetry and estimate the rate constant.
C116.6	Demonstrate and understand the chemical kinetics of chemical reaction and determine the amount of synthesized drug.
BASIC ELECTRICAL ENGINEERING LAB	
C117.1	Get an exposure to common electrical components and their ratings
C117.2	Comprehend the usage of common electrical measuring instruments
C117.3	Analyze the Laws and theorems in DC circuits
C117.4	Analyze the voltage and currents in RL, RC and RLC Circuits.
C117.5	Test the basic characteristics of transformers and electrical machines.
EFFECTIVE COMMUNICATION SKILLS LAB	
C118.1	Listen and interpret spoken language productively
C118.2	Speak English with neutralized pronunciation, stress and intonation
C118.3	Present themselves confidently in formal and informal situations
C118.4	Expand critical thinking and acknowledge team work effectively
C118.5	Develop creativity and speak confidently in individual and group activity
C118.6	Create formal presentations dynamically
ENGINEERING AND IT WORKSHOP	
C119.1	Learn basics of Different tools and tools usage, properties.
C119.2	Understand the basics of different manufacturing processes, dimensional accuracies and tolerance while doing the practical.
C119.3	Remember the techniques used to assemble and disassemble the small models, in trades like fitting, carpentry.
C119.4	Demonstrate practical skills in different trades like carpentry, tinsmithy, fitting and welding.
C119.5	Develop the small device on their interest with the practical knowledge of welding, plumbing, fitting and carpentry tools.
C119.6	Differentiate and Evaluate the techniques used in workshop to choose materials, tools and its applications in day to day life also.



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COURSE OUTCOMES**

SEMESTER-I

2023-24

(COMMON TO CSE,CS, CSD,CIVIL &MECH

ENVIRONMENTAL SCIENCES	
C111.1	Describe various natural resources.
C111.2	To understand various biotic and abiotic components of ecosystem.
C111.3	Learn the different conservation techniques of biological diversity.
C111.4	Illustrate the causes, effects and control measures of various types of environmental pollutions.
C111.5	Explain the methods of water conservation; understand the current global environmental issues.
UNIVERSAL HUMAN VALUES	
C112.1	Understand the significance of value inputs in a classroom and apply them in their life and profession.
C112.2	Distinguish between values and skills, happiness and accumulation of physical facilities, the self and the body, intention and competence of an individual.
C112.3	Understand the role of a human being in ensuring harmony in society and nature.
C112.4	Compare and contrast between ethical and unethical conduct within the society.
C112.5	Grasp the right utilization of their knowledge in their streams of Technology.
MATHEMATICS-I	
C113.1	Test for the nature of Sequence and series
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C113.4	Evaluate double and triple integration and learn its applications
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C113.6	Solve engineering problems with the help of Mathematics tool
ENGINEERING PHYSICS	
C114.1	Classify crystals based on their structure and their appropriate uses.
C114.2	Illustrates working of lasers and optical fibers in high speed communication.
C114.3	Analyze the wave nature and to develop the skills in designing the various electronic devices.
C114.4	Distinguish the materials and can justify their application in divergent fields.
C114.5	Apply the principles of nanoscience in new technological devices.
PROGRAMMING FOR PROBLEM SOLVING	
C115.1	Illustrate basic concepts of programming, algorithms, and flowchart and apply it for problem solving.
C115.2	Implement conditional branching and iterations for programming and usage of data types like arrays.

C115.3	Apply the programming approach for implementations of basic algorithms like searching and sorting.
C115.4	Decompose the problem using modular approach with help of functions and implementations of string handling functions.
C115.5	Analyze the usage of structure and recursion concepts.
C115.6	Understand the concept of file handling and pointers for storage and implementations of data.
ENGINEERING PHYSICS LAB	
C116.1	Apply the basic principles of lasers and optical fibers to determine wavelength and numerical aperture.
C116.2	Remember the basics of electrical properties and apply to semiconductors.
C116.3	Estimate the carrier concentration of semiconductor materials by applying Hall effect principle.
C116.4	Apply the basic knowledge of semiconductors and understand the I-V characteristics of p-n junction diode, solar cell and LED devices.
C116.5	Analyze the temperature dependence on resistance by Thermistor Experiment.
C116.6	Understand the concept of rigidity modulus through Torsional pendulum.
PROGRAMMING FOR PROBLEM SOLVING LAB	
C117.1	Select appropriate data type for implementing programs in C language.
C117.2	Design and implement modular programs involving input output operations, decision making and looping constructs.
C117.3	Apply search and sort operations on arrays
C117.4	To develop modular reusable code using the concept of functions.
C117.5	Implement programs on dynamic memory management and string handling using concept of pointers.
C117.6	Understand and implement programs to store data in structures and files.
ENGINEERING GRAPHICS & DESIGN PRACTICE	
C118.1	Learn basics of Dimensioning, Detail Drawings and Engineering Design.
C118.2	Understand the basics of AutoCAD software and producing drawing by using various coordinates methods for lines and circles
C118.3	Remember the projection of point's, lines, planes then create virtual drawing by using CAD software.
C118.4	Generating the solid projections, Section of the solids and development of surfaces.
C118.5	Develop isometric drawing of simple objects, Reading the orthographic Projections of these objects.
C118.6	Differentiate and visualize. 3D to 2D & 2D to 3D Vice- Versa. Apply the knowledge of Engineering Graphics to draw floor drawing, Simple Machine Element, Basic Electrical Drawing, Basic Networking Drawing.
Design Thinking Lab	
C119.1	Compare and classify the various learning styles and memory techniques and apply them in their engineering education

C119.2	Analyse emotional experience and inspect emotional expressions to better understand users while designing innovative products
C119.3	Develop new ways of creative thinking and learn the innovation cycle of design thinking process for developing innovative products
C119.4	Propose real-time innovative engineering design and choose appropriate frameworks, strategies, techniques during prototype development
C119.5	Perceive individual differences and its impact on everyday decisions and further create a better customer experience