



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY [A]: HYDERABAD
COURSE OUTCOMES SEMESTER-II 2023-24
(COMMON TO INF, ECE, CSE-AIML, CS)

ENVIRONMENTAL SCIENCES		BTL
C121.1	Describe various natural resources.	BTL1
C121.2	To understand various biotic and abiotic components of ecosystem.	BTL2
C121.3	Learn the different conservation techniques of biological diversity.	BTL3
C121.4	Illustrate the causes, effects and control measures of various types of environmental pollutions.	BTL3
C121.5	Explain the methods of water conservation; understand the current global environmental issues.	BTL3
UNIVERSAL HUMAN VALUES		BTL
C122.1	Understand the significance of value inputs in a classroom and apply them in their life and profession.	BTL-2
C122.2	Distinguish between values and skills, happiness and accumulation of physical facilities, the self and the body, intention and competence of an individual.	BTL- 2
C122.3	Understand the role of a human being in ensuring harmony in society and nature.	BTL-2
C122.4	Compare and contrast between ethical and unethical conduct within the society.	BTL-3
C122.5	Grasp the right utilization of their knowledge in their streams of Technology.	BTL-1
MATHEMATICS-II		BTL
C123.1	Solve system of linear equations with the help of Matrices and solving eigen value problems.	BTL2
C123.2	Discuss the methods for solving certain first order differential equations and insight into its applications.	BTL3
C123.3	Determine solution of certain higher order differential equations and exposure into its applications.	BTL3
C123.4	Analyze the basic problems of Gamma, Beta and Legendre's functions.	BTL5
C123.5	Apply the concept of Laplace Transforms in improper integrals and to the ordinary differential equations.	BTL4
C123.6	Acquire problem solving skills through Mathematics knowledge.	BTL3
ENGINEERING PHYSICS		BTL
C124.1	Classify crystals based on their structure and their appropriate uses.	BTL3
C124.2	Illustrates working of lasers and optical fibers in high speed communication.	BTL2
C124.3	Analyze the wave nature and to develop the skills in designing the various electronic devices.	BTL4
C124.4	Distinguish the materials and can justify their application in divergent fields.	BTL2
C124.5	Apply the principles of nanoscience in new technological devices.	BTL3
PROGRAMMING FOR PROBLEM SOLVING		BTL
C125.1	Illustrate basic concepts of programming, algorithms, and flowchart and apply it for problem solving.	BTL1
C125.2	Implement conditional branching and iterations for programming and usage of data types like arrays.	BTL3
C125.3	Apply the programming approach for implementations of basic algorithms like searching and sorting.	BTL3
C125.4	Decompose the problem using modular approach with help of functions and	BTL2

	implementations of string handling functions.	
C125.5	Analyze the usage of structure and recursion concepts.	BTL4
C125.6	Understand the concept of file handling and pointers for storage and implementations of data.	BTL2
ENGINEERING PHYSICS LAB		BTL
C126.1	Apply the basic principles of lasers and optical fibers to determine wavelength and numerical aperture.	BTL3
C126.2	Remember the basics of electrical properties and apply to semiconductors.	BTL1
C126.3	Estimate the carrier concentration of semiconductor materials by applying Hall effect principle.	BTL3
C126.4	Apply the basic knowledge of semiconductors and understand the I-V characteristics of p-n junction diode, solar cell and LED devices.	BTL3
C126.5	Analyze the temperature dependence on resistance by Thermistor Experiment.	BTL4
C126.6	Understand the concept of rigidity modulus through Torsional pendulum.	BTL2
PROGRAMMING FOR PROBLEM SOLVING LAB		BTL
C127.1	Select appropriate data type for implementing programs in C language.	BTL1
C127.2	Design and implement modular programs involving input output operations, decision making and looping constructs.	BTL3
C127.3	Apply search and sort operations on arrays	BTL3
C127.4	To develop modular reusable code using the concept of functions.	BTL3
C127.5	Implement programs on dynamic memory management and string handling using concept of pointers.	BTL3
C127.6	Understand and implement programs to store data in structures and files.	BTL2
ENGINEERING GRAPHICS & DESIGN PRACTICE		BTL
C128.1	Learn basics of Dimensioning, Detail Drawings and Engineering Design.	BTL1
C128.2	Understand the basics of AutoCAD software and producing drawing by using various coordinates methods for lines and circles	BTL2
C128.3	Remember the projection of point's, lines, planes then create virtual drawing by using CAD software.	BTL1
C128.4	Generating the solid projections, Section of the solids and development of surfaces.	BTL6
C128.5	Develop isometric drawing of simple objects, Reading the orthographic Projections of these objects.	BTL6
C128.6	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.	BTL3
Design Thinking Lab		BTL
C129.1	Compare and classify the various learning styles and memory techniques and apply them in their engineering education	BTL-2
C129.2	Analyse emotional experience and inspect emotional expressions to better understand users while designing innovative products	BTL-3
C129.3	Develop new ways of creative thinking and learn the innovation cycle of design thinking process for developing innovative products	B TL-2
C129.4	Propose real-time innovative engineering design and choose appropriate frameworks, strategies, techniques during prototype development	BTL-2
C129.5	Perceive individual differences and its impact on everyday decisions and further create a better customer experience	BTL-2



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY [A]: HYDERABAD
COURSE OUTCOMES SEMESTER-II 2023-24
(COMMON TO(CSE, CSD,))

INDIAN CONSTITUTION		BT Level
C121.1	Recall the background of the present constitution of India thoroughly	BTL-1
C121.2	Recognize efficiently the working of the Union, State and Local government	BTL- 2
C121.3	Identify the fundamental rights and duties completely	BTL-3
C121.4	Examine the relation between union and state policies carefully	BTL-4
C121.5	Discuss the role of Election Commission of India elaborately	BTL-2
MATHEMATICS-II		BT Level
C122.1	Solve system of linear equations with the help of Matrices and solving eigen value problems.	BTL3
C122.2	Discuss the methods for solving certain first order differential equations and insight into its applications.	BTL4
C122.3	Determine solution of certain higher order differential equations and exposure into its applications.	BTL3
C122.4	Analyze the basic problems of Gamma, Beta and Legendre's functions.	BTL3
C122.5	Apply the concept of Laplace Transforms in improper integrals and to the ordinary differential equations.	BTL5
C122.6	Acquire problem solving skills through Mathematics knowledge.	BTL5
ENGINEERING CHEMISTRY		BT Level
C123.1	Understand the basic principle of electrochemistry and batteries and exemplify its uses in daily life	BTL3
C123.2	Analyze the problems of hard water and apply softening techniques and corrosion control method	BTL3
C123.3	Explain the structure, properties and characteristics of engineering materials used in modern technology	BTL2
C123.4	Classify chemical fuels and grade them through qualitative analysis	BTL3
C123.5	Apply the concept of Green Chemistry to protect mother nature	BTL3
BASIC ELCTRICAL ENGINEERING		BT Level
C124.1	Analyze the DC electrical circuits and measure the parameters of electrical energy.	BTL 3
C124.2	Understand the concepts of electromagnetism.	BTL 2
C124.3	Analyze the AC electrical circuits and measure the parameters of electrical energy.	BTL 3

C124.4	Comprehend the working principle and construction of DC machines and transformers.	BTL 2
C124.5	Comprehend the working principle and construction of AC machines namely Induction motor & Synchronous generator.	BTL 2
ENGLISH FOR PROFESSIONAL COMMUNICATION		BT Level
C125.1	Read and write the content meaningfully	BTL3
C125.2	Comprehend the given texts and respond appropriately	BTL2
C125.3	Improves proficiency in vocabulary relatively	BTL3
C125.4	Demonstrate grammar structure precisely in writing sentences and paragraphs	BTL3
C125.5	Undertake various types of writing confidently	BTL2
ENGINEERING CHEMISTRY LAB		BT Level
C126.1	Estimate the amount of Ferrous ions.	BTL 3
C126.2	Calculate the total hardness and alkalinity of water.	BTL 4
C126.3	Identify the mobility of ions in strong acids and weak acids using conductivity meter.	BTL 2
C126.4	Analyse cell potential of a given solution and determine the strength of solution.	BTL 4
C126.5	Apply the principles of Colorimetry and estimate the rate constant.	BTL 3
C126.6	Demonstrate and understand the chemical kinetics of chemical reaction and determine the amount of synthesized drug.	BTL 3
BASIC ELECTRICAL ENGINEERING LAB		BT Level
C127.1	Get an exposure to common electrical components and their ratings	BTL3
C127.2	Comprehend the usage of common electrical measuring instruments	BTL1
C127.3	Analyze the Laws and theorems in DC circuits	BTL3
C127.4	Analyze the voltage and currents in RL, RC and RLC Circuits.	BTL3
C127.5	Test the basic characteristics of transformers and electrical machines.	BTL4
EFFECTIVE COMMUNICATION SKILLS LAB		BT Level
C128.1	Listen and interpret spoken language productively	BTL-2
C128.2	Speak English with neutralized pronunciation, stress and intonation	BTL-3
C128.3	Present themselves confidently in formal and informal situations	B TL-2
C128.4	Expand critical thinking and acknowledge team work effectively	BTL-3
C128.5	Develop creativity and speak confidently in individual and group activity	BTL-3
C128.6	Create formal presentations dynamically	BTL-3
ENGINEERING AND IT WORKSHOP		BT Level
C129.1	Learn basics of Different tools and tools usage, properties.	BTL1
C129.2	Understand the basics of different manufacturing processes, dimensional accuracies and tolerance while doing the practical.	BTL2
C129.3	Remember the techniques used to assemble and disassemble the small models, in trades like fitting , carpentry.	BTL1
C129.4	Demonstrate practical skills in different trades like carpentry, tinsmithy, fitting and welding.	BTL6
C129.5	Develop the small device on their interest with the practical knowledge of welding, plumbing, fitting and carpentry tools.	BTL6
C129.6	Differentiate and Evaluate the techniques used in workshop to choose materials, tools and its applications in day to day life also.	BTL3



LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY [A]: HYDERABAD
COURSE OUTCOMES SEMESTER-II 2023-24
(COMMON TO (CIVIL & MECH))

INDIAN CONSTITUTION		BT Level
C121.1	Recall the background of the present constitution of India thoroughly	BTL-1
C121.2	Recognize efficiently the working of the Union, State and Local government	BTL-2
C121.3	Identify the fundamental rights and duties completely	BTL-3
C121.4	Examine the relation between union and state policies carefully	BTL-4
C121.5	Discuss the role of Election Commission of India elaborately	BTL-2
MATHEMATICS-II		BT Level
C122.1	Solve system of linear equations with the help of Matrices and solving eigen value problems.	BTL3
C122.2	Discuss the methods for solving certain first order differential equations and insight into its applications.	BTL4
C122.3	Determine solution of certain higher order differential equations and exposure into its applications.	BTL3
C122.4	Analyze the basic problems of Gamma, Beta and Legendre's functions.	BTL3
C122.5	Apply the concept of Laplace Transforms in improper integrals and to the ordinary differential equations.	BTL5
C122.6	Acquire problem solving skills through Mathematics knowledge.	BTL5
ENGINEERING CHEMISTRY		BT Level
C123.1	Understand the basic principle of electrochemistry and batteries and exemplify its uses in daily life	BTL3
C123.2	Analyze the problems of hard water and apply softening techniques and corrosion control method	BTL3
C123.3	Explain the structure, properties and characteristics of engineering materials used in modern technology	BTL2
C123.4	Classify chemical fuels and grade them through qualitative analysis	BTL3
C123.5	Apply the concept of Green Chemistry to protect mother nature	BTL3
ENGINEERING MECHANICS		BT Level
C124.1	Determine the unknown forces by the parallelogram law of force method and method of resolution, solve the engineering problems by drawing the free body diagram.	BTL 3
C124.2	Locate the position of centroid and centres of gravity of plane figures and solid bodies of various shapes.	BTL 2
C124.3	Analyze the motion of bodies on a plane surface or on an inclined surface connected with strings and passes over pulleys.	BTL 3

C124.4	Evaluate the forces in the determinate frames by using method of joints, method of sections and tension coefficient method.	BTL 2
C124.5	Apply the concept of work energy method and impulse momentum method to bodies who are in motion position on horizontal and inclined plane surface.	BTL 2
ENGLISH FOR PROFESSIONAL COMMUNICATION		BT Level
C125.1	Read and write the content meaningfully	BTL3
C125.2	Comprehend the given texts and respond appropriately	BTL2
C125.3	Improve proficiency in vocabulary relatively	BTL3
C125.4	Demonstrate grammar structure precisely in writing sentences and paragraphs	BTL3
C125.5	Undertake various types of writing confidently	BTL2
ENGINEERING CHEMISTRY LAB		BT Level
C126.1	Estimate the amount of Ferrous ions.	BTL 3
C126.2	Calculate the total hardness and alkalinity of water.	BTL 4
C126.3	Identify the mobility of ions in strong acids and weak acids using conductivity meter.	BTL 2
C126.4	Analyse cell potential of a given solution and determine the strength of solution.	BTL 4
C126.5	Apply the principles of Colorimetry and estimate the rate constant.	BTL 3
C126.6	Demonstrate and understand the chemical kinetics of chemical reaction and determine the amount of synthesized drug.	BTL 3
ENGINEERING MECHANICS LAB		BT Level
C127.1	To Study the performance of differential axle and wheel and find the velocity ratio, efficiency and law of machine.	BTL 2
C127.2	To verify Lami's theorem and the law of polygon and calculate the resultant of coplanar concurrent force system by using universal force table.	BTL 4
C127.3	Determine the centre of gravity of irregular shaped bodies and coefficient of friction for various surfaces on an inclined plane.	BTL 5
C127.4	Determine the mechanical advantage, velocity ratio, and efficiency of a simple screw jack, and moment of inertia of a fly wheel.	BTL 5
C127.5	To verify the principle of moments by using bell crank lever apparatus, to determine the reactions of parallel forces on simply supported beam apparatus.	BTL 5
EFFECTIVE COMMUNICATION SKILLS LAB		BT Level
C128.1	Listen and interpret spoken language productively	BTL-2
C128.2	Speak English with neutralized pronunciation, stress and intonation	BTL-3
C128.3	Present themselves confidently in formal and informal situations	B TL-2
C128.4	Expand critical thinking and acknowledge team work effectively	BTL-3
C128.5	Develop creativity and speak confidently in individual and group activity	BTL-3
C128.6	Create formal presentations dynamically	BTL-3
ENGINEERING AND IT WORKSHOP		BT Level
C129.1	Learn basics of Different tools and tools usage, properties.	BTL1
C129.2	Understand the basics of different manufacturing processes, dimensional accuracies and tolerance while doing the practical.	BTL2
C129.3	Remember the techniques used to assemble and disassemble the small models,	BTL1

	in trades like fitting , carpentry.	
C129.4	Demonstrate practical skills in different trades like carpentry, tinsmithy, fitting and welding.	BTL6
C129.5	Develop the small device on their interest with the practical knowledge of welding, plumbing, fitting and carpentry tools.	BTL6
C129.6	Differentiate and Evaluate the techniques used in workshop to choose materials, tools and its applications in day to day life also.	BTL3

