LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY: HYDERABAD
COURSE OUTCOMES SEMESTER- I, 2019-20
(COMMON TO CSE, CSD)

ENVIRONMENTAL SCIENCES	
C11.1	Apply environmental ethics to attain sustainable development
C11.2	Demonstrate an attitude of concern for the environment
C11.3	Discuss the methods of natural resources and biological diversity
C11.4	Recognise the needs of green technologies formation's security
C11.5	Illustrate awareness or environmental laws and regulations
C11.6	Apply the principles of ecology and biodiversity for sustainable development
ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE	
C12.01	To get a knowledge in Indian Philosophical Foundations.
C12.02	To Know Indian Languages, Culture and Literature
C12.03	To know Indian fine arts in India & Their Philosophy.
C12.04	To make familiar with Indian Education system, Ethics and Morals
C12.05	To explore the Science and Scientists of Medieval and Modern India
MATHEMATICS I	
C13.01	Perceive engineering problems with the help of Mathematics knowledge.
C13.02	Examine the nature of Sequence and different series
C13.03	Apply the knowledge of single variable, curvature, evolutes and envelopes and different series in real problems
C13.04	Explain the limit, continuity, partial derivatives, Jacobiand and maxima and minima of function of several variables
C13.05	Evaluate double and triple integration and learn its applications
C13.06	Utilize and apply the concepts of Vector differentiation, gradient, curl and divergence and its integration
CHEMISTRY	
C14.01	Use the basic concept of electrochemistry and batteries and apply its principle in . batteries.
C14.02	Classify the physical and chemical parameters of quality of water and explain the process of water treatment.(BTL4)
C14.03	Explain the mechanism of corrosion of materials on the basis of electrochemical approach and its control methods. (BTL2)
C14.04	Determine the influence of chemical structure on properties of materials and their choice in engineering applications. (BTL3)
C14.05	Examine the properties and characteristics of different types of fuels and its composition and analyses the importance of calorific value and cracking. (BTL3)

C14.06	Analyse the importance of green chemistry to modify engineering materials and synthesis.
PROGRAMMING FOR PROBLEM SOLVING	
C15.01	Formulate simple algorithms for arithmetic and logical problems.
C15.02	Computing Environments, Translate the algorithms to flow charts and programs (in c language).
C15.03	Test and execute the programs and correct syntax and logical errors.
C15.04	Implement conditional branching, iteration and recursion.
C15.05	Decompose a problem into functions and synthesize a complete program using divide and conquer approach.
C15.06	Use arrays, pointers structures and files to formulate algorithms and programs.
CHEMISTRY LAB	
C16.01	determine the hardness of water
C16.02	Illustrate of mobility of ions in strong acids and weak acids using conductivity meter
C16.03	Calculate the electrode potential of a given solution.
C16.04	Apply the principles of Colorimetry and Electrochemistry in quantitative estimations.
C16.05	Analyze of the rate constant of a reaction.
C16.6	Outline the synthesis of drug.
PROGRAMMING FOR PROBLEM SOLVING LAB	
C17.01	Choose appropriate data type for implementing programs in C language.
C17.02	Design and implement modular programs involving input output operations, decision making and looping constructs
C17.03	Implement search and sort operations on arrays.
C17.04	Apply the concept of pointers for implementing programs on dynamic memory management and string handling.
C17.05	Design and implement programs to store data in structures and files.
WORKSHOP /MANUFACTURING PROCESS	
C18.01	Understand that human life and safety is given preference over all other things.
C18.02	Learn basic processes used in manufacturing sector.
C18.03	Understand the importance of design & of following due procedure to get efficient result, which is not only limited to academics but throughout life.
C18.04	Convert raw material into finished product.
C18.05	Describe conventional and modern manufacturing processes (which are taught through demonstration and video lectures).
C18.06	Determine trades and techniques used in Workshop and chooses the best material/ manufacturing process for the application.

(COMMON TO IT ,CSE AI&ML,ECE &MECH)

INDIAN CONSTITUTION	
C11.01	To Know the background of the present constitution of India
C11.02	Understanding the working of the Union, State and Local levels of governments
C11.03	Analyze and Gaining consciousness of the fundamental rights and duties
C11.04	Evaluating the functioning and distribution of financial, Administrative, and legislative relations between the centre and states
C11.05	Creation and dissemination of information about the statutory institutions of India
C11.01	To Know the background of the present constitution of India
PHYSICS	
C12.01	Apply various types of crystalline materials in advancement of technology.
C12.02	Analyze energy levels in constant and periodic potentials, duality of matter.
C12.03	Develop skills in designing the various electronic equipment.
C12.04	Distinguish the materials and can justify its application in divergent fields.
C12.05	Illustrates working of lasers and optical fibers in high speed communication.
C12.06	Understand and analyze the action of laser and principal of optical fibers.
MATHEMATICS –I	
C13.01	Perceive engineering problems with the help of Mathematics knowledge.
C13.02	Examine the nature of Sequence and different series
C13.03	Apply the knowledge of single variable, curvature, evaluates and envelopes and different series in real problems
C13.04	Explain the limit, continuity, partial derivatives, Jacobi and and maxima and minima of function of several variables
C13.05	Evaluate double and triple integration and learn its applications
C13.06	Utilize and apply the concepts of Vector differentiation, gradient, curl and divergence and its integration
BASIC ELECTRICAL ENGINEERING	
C14.01	Get an exposure to common electrical components and their ratings
C14.02	Comprehend the usage of common electrical measuring instruments
C14.03	Analyze the Laws and theorems in DC circuits
C14.04	Analyze the voltage and currents in RL, RC and RLC Circuits.
C14.05	Test the basic propertiesof transformers and electrical machines.
C14.06	Analyze the performance of DC Motors and DC Generators
PHYSICS LAB	
C15.01	Apply the basic knowledge of semiconductors and Understand the I-V characteristics of p-n junction diode, solar cell and thermistors.
C15.02	Evaluate the carrier concentration of semiconductor materials by applying Hall effect principle and dielectric constant of PZT material.
C15.03	Remember the basics of electrical properties and apply to semiconductors.
C15.04	Understand the laws of mechanics from Torsional pendulum
C15.05	Analyze the various parameters (Coercivity, Retentivity and Hysteresis) of ferromagnetic materials
C15.06	Apply the basic principles of lasers and optical fibers to determine wavelength and numerical aperture.
BASIC ELECTRICAL ENGINEERING LAB	
C16.01	Verification of Kirchoff's Laws, Thevenin's, Norton's and Superposition theorems.

C16.02	Study of Three Phase Supply and RL-RC circuits for single phase AC supply
C16.03	Loading of single phase and three phase transformers and observing the voltage-current relationship across primary and secondary windings
C16.04	Performance of Three phase Induction motors
C16.05	Performance of DC Machines (Motors and Generators)
ENGINEERING GRAPHICS & DESIGN	
C17.01	Learn basics of Dimensioning, Detail Drawings and Engineering Design.
C17.02	Exposure to Computer-Aided geometric design
C17.03	Demonstrate the projection of points, lines and planes then create virtual drawing by using CAD software
C17.04	Construct the solid projections & section of solids
C17.05	Development of surfaces, Development of isometric views of simple objects and reading the orthographic views of these objects
C17.06	Use the knowledge of Engineering Graphics to draw floor drawing, Simple Machine Element, Basic Electrical Drawing, Basic Networking Drawing.

Course Outcome :2019-2020
SEM-I

Department of Civil Engineering

ENVIRONMENTAL SCIENCES	
C11.01	Illustrate various environmental challenges due to anthropogenic activities &awareness on social issues
C11.02	To make students understand the importance of natural resources and their conservation.
C11.03	To learn & able to understand ecosystem and importance of ecological balance for sustainable development.
C11.04	Solve the threats of bio-diversity
C11.05	Minimize the pollution by creating awareness in people
ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE	
C12.01	To get a knowledge in Indian Philosophical Foundations.
C12.02	To Know Indian Languages, Culture and Literature
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C12.04	To make familiar with Indian Education system, Ethics and Morals
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MATHEMATICS-I	
C13.01	Interpret engineering problems through Mathematics knowledge
C13.02	Classify and Solve system of linear equations with the help of Matrices and solving eigen value problems.
C13.03	Solve analytically certain first order differential equations and insight into its applications.
C13.04	Determine solution of certain higher order differential equations and exposure into its applications.
C13.05	Exlain the concepts of Gamma, Beta and Legendre's functions.
C13.06	Make use of concept of Laplace Transforms in improper integrals and to the ordinary differential equations.
CHEMISTRY	
C14.01	Apply the concept of electrode potential and illustrate electro analytical techniques and working of batteries.
C14.02	Identify the mechanism of corrosion of materials and analyze the process of water treatment.
C14.03	Analyze the influence of chemical structure and properties of materials and their choice in engineering applications.
C14.04	Illustrate Chemical fuels and grade them through qualitative analysis
C14.05	Summarize the concept of green chemistry to modify engineering process and materials.
PROGRAMMING FOR PROBLEM SOLVING	
C15.01	Formulate simple algorithms for arithmetic and logical problems
C15.02	Computing environments, translate the algorithms to flowcharts and programs (in c language)
C15.03	Test and execute the programs and correct syntax and logical error
C15.04	Implement conditional branching, iteration and recursion
C15.05	Decompose a problem into functions and synthesize a complete program using divide and conquer approach
CHEMISTRY LAB	
C16.01	Determination of parameters of hardness in water
C16.02	Illustrate the mobility of ions in acids using conductivity meter and get idea about titration without using indicator.
C16.03	Apply the principles of Colorimetry and Electrochemistry in quantitative estimations.

C16.04	Analyze the potentials between electrodes which respond to the reference electrode in an electrically conductive solution.
C16.05	Determine the rate constant of reaction from concentration reactant/products as function of time.
PROGRAMMING FOR PROBLEM SOLVING	
C17.01	Choose appropriate data types for implementing programs in C
C17.02	Design and implement modular programs involving input and output operations, decision making and looping constructs
C17.03	Implement search and sort operations on arrays
C17.04	Apply the concepts of pointers for implementing program on dynamic memory management and string handling
C17.05	Design and implement programs to store data in structure and files
ENGINEERING WORKSHOP	
C18.01	Understand that human life and safety is given preference over all other things.
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