LORDS INSTITUTE OF ENGINEERING &TECHNOLOGY

Himayath Sagar - 500 091, Hyderabad.

DEPARTMENT OF CIVIL ENGINEERING

Estd. 2002

COURSE OUTCOMES (COS)

Course Name: C211 Surveying and Geomatics Year: II-I Sem A. Y: 2019-20

C211.1	Explain the terminologies and concepts involved in basic and modern surveying equipment & technologies and also defines the concepts of horizontal and vertical curves.
C211.2	Demonstrate the working principles and applications of basic and modern surveying instruments like chain, prismatic compass, plane table, dumpy level, theodolite and total station.
C211.3	Apply the knowledge of surveying & levelling in calculating lengths, bearings, reduced levels, elevation differences and plotting of a ground.
C211.4	Apply the knowledge of theodolite and trigonometry in finding horizontal and vertical angles, heights of inaccessible points.
C211.5	Use the knowledge of curves concept in surveying, in setting out both horizontal and vertical curves for the purpose of roadway and railway alignment.
C211.6	Interpret survey data and compute areas and volumes, levels by different type of equipment and relate the knowledge to the modern equipment and methodologies

Course Name: C212 Engineering Geology Year: II-I Sem A.Y: 2019-20

C212.1	Explain the role of geology in the design and construction process.
C212.2	Identify and classify rock using basic geologic classification systems.
C212.3	Identify various types of Indian solids.
C212.4	Explain the geologic literature to establish the geotechnical framework needed to properly design and construct heavy civil works rock projects.
C212.5	Describe the design and construction procedures required to safely control rock behavior in underground openings.
C212.6	Illustrate the topographical and GSI maps.

Course Name: C213 Strength of Materials -I Year: II-I Sem A.Y: 2019-20

C213.1	Apply the fundamental concepts of stress and strain in the analysis and design of axially loaded members.
C213.2	Analyze determinate beams to determine shear forces, bending moments and determine the bending stress distribution in beams.
C213.3	Determine the shear stress distribution in a beam and also the stresses in beams subjected to combined axial and bending loads.
C213.4	Evaluate the stresses and strains of circular members subjected to torsion and calculate the power required for torsional revolutions of shafts.
C213.5	Analyze the combined stresses at a point to evaluate principal stresses.
C213.6	Analyze the applications in evaluating failure criteria in various materials and pressure vessels.

Course Name: C224 Mathematics – III Year: II-I Sem A.Y: 2019-20

C214.1	Solve problems in engineering involving PDEs.
C214.2	Evaluate second-order linear equations & initial and boundary conditions.
C214.3	Determine the solutions for heat diffusion and vibration problems.
C214.4	Solve problems involving random variables.
C214.5	Apply statistical methods and hypothesis testing for analyzing experimental data.
C214.6	Discuss the Concepts of F-distribution and chi-square distribution, goodness of fit and test for dependence.

Course Name: C215 Fluid Mechanics **Year: II-I Sem** **A.Y: 2019-20**

C215.1	Describe the broad principles of fluid statics, kinematics and dynamics.
C215.2	Define the basic terms used in fluid mechanics and characteristics of fluids and its flow.
C215.3	Tell the type of fluid flow.
C215.4	Apply the continuity, momentum and energy principles to fluid flow problems.
C215.5	Summarize good fundamentals of hydraulics, hydraulic machinery and hydrology.
C215.6	Solve problems in uniform, gradually and rapidly varied flows in open channel in steady state conditions.

Course Name: C216 Surveying Lab **Year: II-I Sem** **A.Y: 2019-20**

C216.1	Explain the terminologies and concepts involved in basic and modern surveying equipment & technologies and also defines the concepts of horizontal and vertical curves
C216.2	Demonstrate the working principles and applications of basic and modern surveying instruments like chain, prismatic compass, plane table, dumpy level, theodolite and total station.
C216.3	Apply the knowledge of surveying & levelling in calculating lengths, bearings, reduced levels, elevation differences and plotting of a ground
C216.4	Apply the knowledge of theodolite and trigonometry in finding horizontal and vertical angles, heights of inaccessible points
C216.5	Use the knowledge of curves concept in surveying, in setting out both horizontal and vertical curves for the purpose of roadway and railway alignment

Course Name: C217 Strength of Materials Lab **Year: II-I Sem** **A.Y: 2019-20**

C217.1	Demonstrate the Stress-strain behavior of ductile material
C217.2	Compare Young's modulus of different materials by conducting deflection test on different types of beams
C217.3	Calculate rigidity modulus by spring test and torsion test.
C217.4	Evaluate compressive strength of brick.
C217.5	Determine Hardness number and Impact strength of given Specimens.

Course Name: C218 Engineering Geology Lab **Year: II-I Sem** **A.Y: 2019-20**

C218.1	Identify the physical and engineering properties of minerals and rocks.
C218.2	Analyze and measure structural aspects of rocks using models.
C218.3	Demonstrate the field experiment and studies such as VES.
C218.4	Discuss about the Stereoscopic study of photographs, seismic refraction survey and Slake durability test.
C218.5	Summarize the topographical and GSI maps.

Course Name: C219 Constitution of India **Year: II-I Sem** **A.Y: 2019-20**

C219.1	Explain the significance of Indian Constitution as the fundamental law of the land.
C219.2	Apply fundamental rights in proper sense at the same time identifies responsibilities in national building.
C221.3	Analyze the Indian political system, the powers and functions of the Union, State and Local Governments in detail.
C219.4	Explain Electoral Process, Emergency provisions and Amendment procedure.
C219.5	Describe the functioning of Union, State and Local Governments in Indian federal system.
C219.6	Identify the importance of fundamental rights as well as fundamental duties.

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COURSE OUTCOMES (COS)

Course Name: C221 Basic Electrical and Electronics Engineering Year: II-II Sem A.Y: 2019-20

C221.1	Analyze and solve electrical circuits using network laws and theorems.
C221.2	Analyze basic Electric and Magnetic circuits.
C221.3	Discuss the working principles of Electrical Machines.
C221.4	Explain the components of Low Voltage Electrical Installations.
C221.5	Describe the concept of power, power factor and its improvement.
C221.6	Identify and characterize diodes and various types of transistors.

Course Name: C222 Basic Mechanical Engineering for Civil Engineers Year: II-II Sem A.Y: 2019-20

C222.1	Explain the mechanical equipment for the usage at civil engineering systems.
C222.2	Tell the general principles and requirement for refrigeration, manufacturing,
C222.3	Apply the techniques employed to construct civil engineering systems.
C222.4	Explain the Manufacturing Processes for Sheet Metal Work, Welding and Casting.
C222.5	Describe about the lathe, drilling machine, milling machine, grinding machine.
C222.6	Summarize Power Generation, Refrigeration, Modes and mechanisms of heat transfer.

Course Name: C223 Building Materials and Construction planning Year: II-II Sem A.Y: 2019-20

C223.1	Define the Basic terminology that is used in the industry.
C223.2	Identify different building materials, properties and their uses.
C223.3	Express the Prevention of damage measures and good workmanship.
C223.4	Explain different building services.
C223.5	Explain different construction techniques.
C223.6	Name the smart building materials.

Course Name: C224 Strength of Materials -II Year: II-II Sem A.Y: 2019-20

C224.1	Describe the concepts and principles of theory of elasticity.
C224.2	Determine the strength of structures and mechanical components in particular to torsion and direct compression.
C224.3	Evaluate the strains and deformation that will result due to the elastic stresses developed within the materials for simple types of loading.
C224.4	Determine the stresses in the case of dams, retaining walls and chimneys.
C224.5	Analyze strength and stability of structural members subjected to Direct, and Direct and Bending stresses.
C224.6	Evaluate the shear center and unsymmetrical bending.

Course Name: C225 Hydraulics and Hydraulic Machinery Year: II-II Sem A.Y: 2019-20

C225.1	Apply the concept of fluid mechanics in addressing problems in open channels and hydraulic machinery.
C225.2	Solve problems in uniform, gradually and rapidly varied flows in open channel in steady state conditions.
C225.3	Apply dimensional analysis and to differentiate the model, prototype and similitude conditions for practical problems.
C225.4	Discuss on different hydraulic machinery devices and its principles that will be utilized in hydropower development and for other practical usages.
C225.5	analyze and design of hydraulic machinery and its modeling.
C225.6	Tell the characteristics of hydroelectric power plant and its components.

Course Name: C226 Structural Analysis-I Year: II-II Sem A.Y: 2019-20

C226.1	Apply knowledge of mathematics, science, and engineering.
C226.2	Analyze the statically indeterminate bars and continuous beams.
C226.3	Calculate the Strength behavior of members for static and dynamic loading.
C226.4	Calculate the stiffness parameters in beams and pin jointed trusses.
C226.5	Analyze the indeterminacy aspects to consider for a total structural system.
C226.6	Identify, formulate, and solve engineering problems with real time loading

Course Name: C227 Computer Aided Civil Engineering Drawing Year: II-II Sem A.Y: 2019-20

C227.1	Use the AutoCAD commands for drawing 2D & 3D building drawings required for different civil engineering applications.
C227.2	Plan and draw Civil Engineering Buildings drawings as per aspect and orientation.
C227.3	Draw the building plans as per user requirements and preparation of technical report
C227.4	Develop the sections and elevations for given Single storied buildings and multi storied buildings
C227.5	Apply Auto CAD in surveying, mechanics etc.
C227.6	Draw the building components like walls, lintels, Doors, and Windows. using CAD software.

Course Name: C228 Hydraulics & Hydraulic Machinery lab Year: II-II Sem A.Y: 2019-20

C228.1	Describe the basic measurement techniques of fluid mechanics and its appropriate application.
C228.2	Interpret the results obtained in the laboratory for various experiments.
C228.3	Demonstrate the practical working of Hydraulic machines- different types of Turbines, Pumps, and other miscellaneous hydraulics machines.
C228.4	Compare the results of analytical models introduced in lecture to the actual behavior of real fluid flows and draw correct and sustainable conclusions.
C228.5	Create a technical laboratory report.

Course Name: C229 Basic Electrical and Electronics Engineering lab Year: II-II Sem A.Y: 2019-20

C229.1	Analyze and solve electrical circuits using network laws and theorems.
C229.2	Analyze basic Electric and Magnetic circuits
C229.3	Discuss the working principles of Electrical Machines
C229.4	Explain components of Low Voltage Electrical Installations
C229.5	Identify and characterize diodes and various types of transistors.

Course Name: C2210 Gender sensitization lab Year: II-II Sem A.Y: 2019-20

C2210.1	Tell basic dimensions of the biological, sociological, psychological and legal aspects of gender.
C2210.2	Describe a finer grasp that how gender discrimination works in our society and how to counter it.
C2210.3	Discuss the gendered division of labour and its relation to politics and economics.
C2210.4	Summarize a sense of appreciation of women in all walks of life.
C2210.5	Empower students to understand and respond to gender violence.

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COURSE OUTCOMES (COS)

Course Name: C311 Concrete Technology Year: III-I Sem A. Y: 2019-20

C311.1	State the use of supplement cementitious in concrete, use of different admixture and its application as per requirement.
C311.2	Explain the special concrete, its properties and application as per requirement.
C311.3	Analyse the concrete mix design for required strength of concrete with different approach.
C311.4	Explain about the ready-mix concrete plant.
C311.5	Describe the durability of concrete, assessment and inspection of hardened concrete.
C311.6	Identify the properties of hardened concrete by conducting destructive and non-destructive tests.

Course Name: C312 Design of Reinforced Concrete structures Year: III-I Sem A.Y: 2019-20

C312.1	Apply Concepts of RC. Design - Limit State method - Working Stress Method.
C312.2	Analyse and designing of Beams. Apply the concept of bond, and development length
C312.3	Design of one-way, two-way slab, and continuous slabs using IS coefficients Design the doglegged Stair case.
C312.4	Design of short and long columns using limit state method for uni-axial and bi axial bending
C312.5	Design different types of footing.
C312.6	Analyse and design of singly reinforced, doubly reinforced, T and L beam sections.

Course Name: C313 Water Resources Engineering Year: III-I Sem A.Y: 2029-20

C313.1	Analyze hydro-meteorological data.
C313.2	Estimate abstractions from precipitation.
C313.3	Estimate yield from surface and subsurface basin.
C313.4	Design rainfall-runoff models.
C313.5	Formulate and solve hydrologic flood routing models.
C313.6	Estimate runoff, design discharge from catchment.

Course Name: C314 Fundamentals of Management Year: III-I Sem A.Y: 2019-20

C314.1	Explain the significance of Management in their Profession.
C314.2	Describe The various Management Functions like Planning, Organizing, Staffing, Leading, Motivation and Control aspects.
C314.3	Explain the Management Practices in their domain area.
C314.4	Explain the Concepts in Practical aspects of business and development of Managerial Skills.
C314.5	Describe the Leadership, Power and Authority, Behavioral Leadership, Situational Leadership, Leadership.
C314.6	Demonstrate as Mentor and Coach, Leadership during adversity and Crisis; Handling Employee and Customer Complaints, Team Leadership.

Course Name: C315 Concrete Technology lab Year: III-I Sem A.Y: 2019-20

C315.1	Identify the physical properties of Portland cement by conducting relevant tests.
C315.2	Identify the properties of fine and coarse aggregates by conducting basic tests.
C315.3	Identify the properties of fresh concrete by conducting basic tests.
C315.4	Identify the properties of self-compacting concrete.
C315.5	Identify the properties of hardened concrete by conducting destructive and non-destructive tests.

Course Name: C316 Geographical Information Systems Lab Year: III-I Sem A.Y: 2019-20

C316.1	Explain the concepts of Photogrammetry, Principles & types of aerial photograph, stereoscopy.
C316.2	Explain the concept and principles of Remote sensing, electromagnetic spectrum, energy interaction with atmosphere & surface features, sensors and satellites.
C316.3	Tell the components of GIS, spatial data & attribute data, data analysis, coordinate system
C316.4	Analyse Topology & its importance, shape file
C316.5	Explain Raster data model, types of raster data, raster data structure, data conversion and data input.

Course Name: C317 Hydraulics and Hydraulic Machinery lab Year: III-I Sem A.Y: 2019-20

C317.1	Illustrate the flow phenomenon in open channels.
C317.2	Analyze the force acting due to jets concept and its application in hydraulic machines.
C317.3	Demonstrate working principles of hydraulic pumps and turbines.
C317.4	Infer the specific energy diagram by tilting flume.
C317.5	Determine minor losses in pipes.

Course Name: C318 Professional Ethics Year: III-I Sem A.Y: 2019-20

C318.1	Explain the importance of Values and Ethics in their personal lives and professional careers.
C318.2	Describe The rights and responsibilities as an employee, team member and a global citizen.
C318.3	Explain Work Place Rights & Responsibilities, Ethics in changing domains of Research, Engineers and Managers.
C318.4	Describe Global issues in Professional Ethics.
C318.5	Explain The Centrality of Responsibilities of Professional Ethics.
C318.6	Summarize Organizational Complaint Procedure, difference of Professional Judgment within the Nuclear Regulatory Commission (NRC), the Hanford Nuclear Reservation.

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COURSE OUTCOMES (COS)

Course Name: C321 Design of Steel structure **Year: III-II Sem** **A.Y: 2019-20**

C321.1	Design tension and compression members.
C321.2	Design beams and beam columns.
C321.3	Design bolt and weld connections.
C321.4	Design built up members and Column base.
C321.5	Design the plate girders and Roof Trusses.
C321.6	Design the eccentric connections – Framed – stiffened and seat connection.

Course Name: C322 Environmental Engineering **Year: III-II Sem** **A.Y: 2019-20**

C322.1	Analyse the basic quality and quantity parameters of water by some prescribed methods.
C322.2	Analyse the different types of treatment methods and water distribution.
C322.3	Discuss the characters of sewage, plumbing and sanitary.
C322.4	Explain the different stages of treatment methods.
C322.5	Explain the concepts of air pollution and its effects.
C322.6	Describe the various gaseous pollutants and its control.

Course Name: C323 Soil Mechanics **Year: III-II Sem** **A.Y: 2019-20**

C323.1	Define the basic properties of soil formation.
C323.2	Discuss the index properties of soils.
C323.3	Calculate the properties and factors of permeability by conducting simple tests.
C323.4	Analyse the effective stress and seepage through soils.
C323.5	Demonstrate the properties of flow nets and uses.
C323.6	Evaluate the various stress distribution of soils.

Course Name: C324 Air Pollution and Control **Year: III-II Sem** **A.Y: 2019-20**

C324.1	Identify the sources, causes and general effects of air pollution.
C324.2	Analyse the effects of air pollution on humans, plants and animals.
C324.3	Describe the plume behaviour of atmospheric stability conditions.
C324.4	Identify the sampling procedure and analysis techniques for air quality assessment.
C324.5	Explain various techniques to control air pollution.
C324.6	Describe air quality management and methods to maintain it.

Course Name: C325 Soil Mechanics Lab **Year: III-II Sem** **A.Y: 2019-20**

C325.1	Determine index properties of soils.
C325.2	Describe various types of soils.
C325.3	Determine engineering properties of soils.
C325.4	Explain the principles of compaction and its control.
C325.5	Identify shear strength parameters for field conditions.

Course Name: C326 Computer Aided design -II Lab **Year: III-II Sem** **A.Y: 2019-20**

C326.1	Detailing of reinforcement in Cantilever, simply supported, Continuous Beams, canopy & columns.
C326.2	Detailing of reinforcement in RC isolated footings square, rectangular, circular and combined footings, RC one-way, two-way slabs and dog-legged staircases.
C326.3	Drawing of Steel bolted and welded connections.
C326.4	Drawing of steel compression and tension members.
C326.5	Drafting of steel beams-built-up sections. Drafting of steel plate girder, steel roof truss.

Course Name: C327 Advanced English communication skills Lab Year: III-II Sem A.Y: 2019-20

C327.1	Recall vocabulary and use it contextually.
C327.2	Listen and speak effectively.
C327.3	Develop proficiency in academic reading and writing.
C327.4	Increase possibilities of job prospects.
C327.5	Communicate confidently in formal and informal contexts.

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COURSE OUTCOMES (COS)

Course Name: C411 Transportation Engineering Year: IV-I Sem A.Y: 2019-20

C411.1	Apply the knowledge of mathematics, science and engineering in the areas of traffic engineering, highway development and maintenance.
C411.2	Design and conduct experiments to assess the suitability of the highway materials like soil, bitumen, aggregates and a variety of bituminous mixtures.
C411.3	Design flexible and rigid highway pavements for varying traffic compositions as well as soil subgrade and environmental conditions using the standards stipulated by Indian Roads Congress.
C411.4	Evaluate the structural and functional conditions of. Inservice highway pavements and provide solution in the form of routine maintenance measures or designed overlays using Indian Roads congress guidelines
C411.5	Assess the issues related to road traffic and provide engineering solutions.
C411.6	Analyse road user psychological and behavioural patterns

Course Name: C412 Estimation quantity surveying and valuation Year: IV-I Sem A.Y: 2019-20

C412.1	Explain the preparation of an Abstract Estimate and detailed estimate of building.
C412.2	Determine earth work quantity for roads and canals.
C412.3	Tell preparation of Notice inviting tender document for bidding, tendering process and examining rate analysis of civil works.
C412.4	Design bar bending schedule for reinforcement works, identify specifications and tendering process for contracts and create various tender documents for bidding purpose.
C412.5	Evaluate the valuation of building for different specifications.
C412.6	Create new technologies to develop concrete estimating methods.

Course Name: C413 Rehabilitation and Retrofitting of Structures Year: IV-I Sem A.Y: 2019-20

C413.1	Summarize the mechanisms of degradation and distress of concrete in structures.
C413.2	Explain the mechanism of corrosion of steel reinforcement. Fire basics.
C413.3	Analyse the structure failures by following appropriate Inspection procedures and non-destructive evaluation.
C413.4	Analyse the deterioration and use of repair strategies for deteriorated concrete structures.
C413.5	Explain the importance of health monitoring of structures.
C413.6	Evaluate the health of structures by using relevant sensors and design of SHM.

Course Name: C414 Pre- Stressed Concrete **Year: IV-I Sem A.Y: 2019-20**

C414.1	Describe the basic properties of pre-stressed concrete Constituents.
C414.2	Calculate pre-stress losses for simple pre-stressed concrete beams.
C414.3	Design pre-stressed concrete beam to resist shear.
C414.4	Analyse flexural forces in pre-stressed concrete beams.
C414.5	Explain the concept of transfer of pre-stress in pretensioned members.
C414.6	Analyse for deflection of pre-stressed concrete member.

Course Name: C415 Irrigation and Hydraulic Structures **Year: IV-I Sem A.Y: 2019-20**

C415.1	Apply different terminology related to water resources engineering.
C415.2	Identify various types of reservoirs and their design aspects.
C415.3	Design various channel systems.
C415.4	Design head and cross regulator structures.
C415.5	Develop cross drainage works and its design.
C415.6	Design various Irrigation and Hydraulic structures.

Course Name: C416 Transportation Engineering Lab **Year: IV-I Sem A.Y: 2019-20**

C416.1	Explain the Highway construction properties of highway materials.
C416.2	Identify the properties of Highway materials and surveys.
C416.3	Perform the tests on Road Aggregates.
C416.4	Perform the tests on Bituminous Materials.
C416.5	Perform the tests on Traffic Studies.

Course Name: C417 Environmental Engineering Lab **Year: IV-I Sem A.Y: 2019-20**

C417.1	Measure common environmental experiments relating to water and wastewater quality.
C417.2	Identify use the water and wastewater sampling procedures and sample preservations.
C417.3	Explain the impact of water and wastewater treatment on people and the environment
C417.4	Apply the laboratorial results to problem identification, quantification, and basic environmental design.
C417.5	Engage in research and life-long learning to adapt to changing environment.

Course Name: C418 Industry Oriented Mini Project **Year: IV-I Sem** **A.Y: 2019-20**

C418.1	Generate knowledge within the chosen area of technology for project development.
C418.2	Identify, discuss and justify the technical aspects of the chosen project with a comprehensive and systematic approach.
C418.3	Reproduce, improve and refine technical aspects for engineering projects.
C418.4	Work as an individual or in a team in development of technical projects.
C418.5	Communicate and report effectively project related activities and findings.

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Course Name: C421 Disaster Management **Year: IV-II Sem** **A.Y: 2019-20**

C422.1	Explain the types and categories of Disasters.
C422.2	Describe the man-made Hazards and Vulnerabilities.
C422.3	Explain disaster management mechanism.
C422.4	Discuss The application of Disaster Concepts to Management.
C422.5	Explain the capacity building concepts.
C422.6	Describe Realization of the Responsibilities to Society. Planning of disaster managements.

Course Name: C422 Waste Management **Year: IV-II Sem** **A.Y: 2019-20**

C422.1	Identify the physical and chemical components of wastes.
C422.2	Analyse the functional elements for solid waste management.
C422.3	Analyse the functional elements of liquid waste management.
C422.4	Analyse the functional elements of liquid waste from different industries.
C422.5	Interpret the effects and treatment methods from different industries.
C422.6	Analyse the effluent treatment plant and disposal.

Course Name: C423 Industrial waste water treatment **Year: IV-II Sem** **A.Y: 2019-20**

C423.1	Identify the characteristics of industrial waste waters.
C423.2	Describe pollution effects of disposal of industrial effluent.
C423.3	Identify and design treatment options for industrial waste water.
C423.4	Formulate environmental management plan.
C423.5	Examine the information of waste water generation from various industries.
C423.6	Design treatment options for industrial waste water.

Course Name: C424 Major Project **Year: IV-II Sem** **A.Y: 2019-20**

C424.1	Classify the projects and describe the phases involved in project formulation with feasibility studies and SWOT (strengths, weaknesses, opportunities, and threats) analysis.
C424.2	Devise a projects development cycle and get acquainted with the different appraisals in the process of deciding the worthiness of project.
C424.3	Exhibit and apply the managerial skills and knowledge of financial aspects required during the implementation of project.
C424.4	Identify sources for project finance and select the method of project implementation which is best suited for a particular project.

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