

SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

(Formerly RVR Institute of Engineering & Technology)

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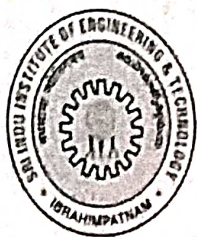
Ph.No:9347187999, 8096951507, 9640590999. E-mail: principalsiet@gmail.com

COURSE OUTCOMES (COs):

Course Outcomes (COs) describe what students can able to do after completion of the course.

Program : B.Tech-Civil Engineering	Academic Year : 2019-20	Semester : I & II
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S.No	Year /Sem	Course Code	Course Name	Course Outcomes (After completion of the course student can able to :)
1	II/I	CE301PC	Surveying and Geomatics	CO1: Define the principles of surveying and its phases and measure the directions by using chain and prismatic compass.
				CO2: Analyzing the levels of ground and computing the area and volumes.
				CO3: Explain the theodolite surveying and analyse the methods of traversing.
				CO4: Explain the principles of tachometry surveying and differentiate types of curves.
				CO5: Explain the total station and global positioning system.
				CO6: Define contouring and study its characteristics and its uses.
2	III/I	CE302PC	Engineering Geology	CO1: Write about importance of geology from civil engineering point of view.
				CO2: Distinguish weathered rocks from fresh rocks.
				CO3: Identify geological structures and processes for rock mass quality.
				CO4: Identify subsurface information and groundwater potential sites through geophysical Investigations.
				CO5: Apply geological principles for mitigation of natural hazards and select sites for dams and tunnels.
				CO6: Develop understanding on impact of geological features on civil engineering projects.
3	II/I	CE303PC	Strength of Materials – I	CO1: Describe the basic concept of stress and strain.
				CO2: Draw SFD and BMD for different beams subjected to different loads.
				CO3: Formulate flexural stresses, shear stresses and its distribution for various sections.
				CO4: Assess slope and deflection of beams subjected to loads.
				CO5: Apply the principal stresses and strains in structural



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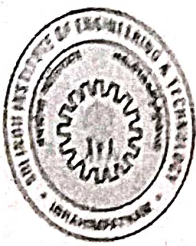
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				members.
				CO6: Analyze of the principles and basics of strength of materials in the civil engineering structures.
4	II/I	MA304BS	Probability and Statistics	CO1: Describe the use of Baye's theorem techniques when solving the problems.
				CO2: Discuss the properties of Discrete and continuous probability distributions.
				CO3: Solve the problems on Binomial and Geometric distributions and also normal distribution.
				CO4: Determine the testing of Hypothesis by using Type- I and Type- II errors.
				CO5: Identify the different types of hypothesis.
				CO6: Create the new problems on correlations and Regressions.
5	III/I	CE305PC	Fluid Mechanics	CO1: Explain the properties of the fluids.
				CO2: Describe and classification of the flows.
				CO3: Identify the discharge through the various discharge meters.
				CO4: Explain the How to move the fluid various flows and finding the discharge.
				CO5: Differentiate the fluid flow in layer by layer.
6	III/I	CE306PC	Surveying Lab	CO1: Prepare the surveying of an area by chain, and compass survey (closed traverse) & plotting.
				CO2: Solve and Calculation of areas, Drawing plans and contour maps using different measuring equipment at field level.
				CO3: Recognize Trigonometric leveling using theodolite.
				CO4: Apply the principle of surveying for civil Engineering Applications.
				CO5: Draw determination of height, remote elevation, and distance between inaccessible points using total station.
7	III/I	CE307PC	Strength of Materials Lab	CO1: Identify modulus of rigidity using spring test.
				CO2: Examine the properties of steel under different loads like tension, compression etc.
				CO3: Distinguish between simply supported beams and cantilever beams under shear stresses.
				CO4: Assess the deflection of beams under given loads.
				CO5: 5 Investigate the hardness of materials like stainless steel, aluminium, brass etc.



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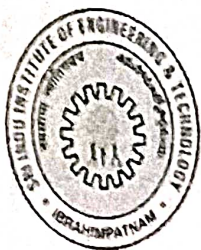
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				CO6: Judge the resistance of mild steel under impact loads.
8	II/I	CE308PC	Engineering Geology Lab	CO1: Study of physical properties and identification of minerals referred under theory.
				CO2: Megascopic and microscopic identification of minerals.
				CO3: Interpretation and drawing of sections for geological maps showing titled beds, faults, Uniformities, etc.
				CO4: Solve simple structural geology problems.
9	II/I	MC309	Constitution of India	CO1: Understand meaning, features, characteristics of constitution law and constitutionalism.
				CO2: Describe fundamental rights, fundamental duties and its legal status.
				CO3: Describe The constitution powers and status of the President of India.
				CO4: Understand Emergency Provisions: National Emergency, President Rule, And Financial Emergency.
				CO5: Understand Fundamental Right to Equality, Fundamental Right to certain Freedom under Article 19.
				CO6: Describe the Scope of the Right to Life and Personal Liberty under Article 21.
10	II/II	EE401ES	Basic Electrical and Electronics Engineering	CO1: Understand the basic electrical circuit elements and different ac circuits.
				CO2: Understand the installation of different electrical equipments.
				CO3: Describe the working of different transformers.
				CO4: Understand the principles of DC motors.
				CO5: Analyze the different diodes, rectifiers and filters.
				CO6: Understand the principle, applications of BJT and FET.
11	II/II	CE402ES	Basic Mechanical Engineering for Civil Engineers	CO1: Understand the Mechanical equipment for the usage cams, riveted joint and discuss the materials.
				CO2: Analyze the working of power transmission elements like gears, belt drive, chain drive & material handling equipment.
				CO3: Illustrate the working features of IC engines, the basic principles of refrigeration and laws of heat transfer.
				CO4: Describe different types of welding process for joining & classify the process of casting.
				CO5: Differentiate understand working of lathe, drilling, milling & grinding machines.
				CO1: Identification of suitable construction materials building stones properties and bricks wood structures.



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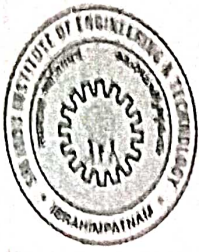
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12	II/II	CE403PC	Building Materials, Construction and Planning	CO2: Apply the manufacture type of cements, cement hydration properties and field test and uses of admixtures minerals.
				CO3: Identify the components of building and differentiate various types of building materials depending on its function.
				CO4: Prepare of various construction related activities like stone masonry, plastering, painting, Form work.
				CO5: Classify the principles of building planning and building by laws.
				CO6: Illustrate the various precautionary measures pertaining to construction materials.
				CO1: Illustrate the various precautionary measures pertaining to construction materials.
13	II/II	CE404PC	Strength of Materials - II	CO2: Asses to understand the behaviour of columns and struts under axial loading.
				CO3: Evaluate the strains and deformation that will result due to the elastic stresses developed within the materials for simple types of loading.
				CO4: Analyze strength and stability of structural members subjected to Direct, and Direct and Bending stresses.
				CO5: Understand and evaluate the shear center and unsymmetrical bending.
				CO6: Appraise strengths of different materials.
				CO1: Explain the properties of the fluids.
14	II/II	CE405PC	Hydraulics and Hydraulic Machinery	CO2: Describe and classification of the flows.
				CO3: Identify the discharge through the various discharge meters.
				CO4: Explain the How to move the fluid various flows and finding the discharge.
				CO5: Differentiate the fluid flow in layer by layer.
				CO6: Discuss the classification of fluid and its properties find out the discharge & amp various conditions flows in fluids.
				CO1: Analyze perfect, imperfect and redundant frames.
15	II/II	CE406PC	Structural Analysis - I	CO2: Compare different frames.
				CO3: Apply classical methods for one dimensional and two dimensional problems.
				CO4: Analyze indeterminate structures.
				CO5: Apply slope-deflection and moment distribution method for continuous beams with and without settlement of supports.
				CO6: Analyze structures for gravity loads, moving loads



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16	II/II	CE407PC	Computer Aided Civil Engineering Drawing	and lateral loads.
				CO1: Summarize the AutoCAD commands for drawing 2D & 3D building drawings required for different civil engineering applications.
				CO2: Plan and draw Civil Engineering Buildings as per aspect and orientation.
				CO3: Categorize drawings as per user requirements and preparation of technical report.
				CO4: Draw a plan of a Building and with dimensioning the plan.
				CO5: Define the tools like Draw tools, Modify tools which are used in AutoCAD.
17	II/II	CE409PC	Hydraulics And Hydraulic Machinery Lab	CO6: Develop sections and elevations for given Single storied buildings, multi storied buildings.
				CO1: Understand the properties of the fluids.
				CO2: Describe and classification of the flows.
				CO3: Identify the discharge through the various discharge meters.
				CO4: Understand the How to move the fluid various flows and finding the discharge.
18	II/II	EE409ES	Basic Electrical & Electronics Engineering Lab	CO5: Differentiate the fluid flow in layer by layer.
				CO1: Understand behavior of different electrical components.
				CO2: Formulate and solve AC,DC circuits.
				CO3: Realize the requirement of transformers.
				CO4: Explain the properties of electromagnetic circuit.
				CO5: Understand the principles of various electrical circuits.
19	II/II	MC409	Gender Sensitization Lab	CO6: Understand working principles of various analogue electrical measuring instruments.
				CO1: Develop sensibility with regard to issues of gender in contemporary India.
				CO2: Provide a critical perspective on the socialization of men and women.
				CO3: Determine information about some key biological aspects of genders.
				CO4: Debate on the politics and economics of work.
				CO5: Reflect critically on gender violence.
				CO6: Expose more egalitarian interactions between men and women.
				CO1: Write about chemical composition and the process of hydration of cement.
				CO2: Write about alkali aggregate reaction and explain factors affecting it.



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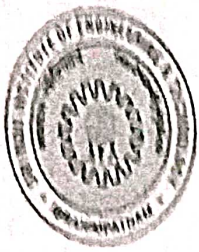
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20	III/I	CE501PC	Concrete Technology	<p>CO3: Write about concept of workability and workability tests.</p> <p>CO4: Analyzing the strength of hardened concrete by Non Destructive Test methods.</p> <p>CO5: Calculation of mix proportion by IS method.</p> <p>CO6: Discuss about the special concretes.</p>
21	III/I	CE502PC	Design of Reinforced Concrete Structures	<p>CO1: Analyze of the Reinforced concrete beams using limit state design.</p> <p>CO2: Define Reinforced concrete structural elements.</p> <p>CO3: Design of the reinforced concrete slabs.</p> <p>CO4: Design the different types Footings.</p> <p>CO5: Explain about the structures for serviceability.</p> <p>CO6: Design of the staircases.</p>
22	III/I	SM504MS	Fundamentals of Management	<p>CO1: Write the working principle of fundamentals of management basics.</p> <p>CO2: Setup Planning Process and develops the Decision Making and Problem Solving skills.</p> <p>CO3: Explains Organization principles, Design, Structures and basic fundamentals of Organisation.</p> <p>CO4: Analyze Leadership styles and handling employee and customer complaints, and motivational theories.</p> <p>CO5: What is controlling, types, strategies, steps characteristics and process of controlling.</p> <p>CO6: What is HRM and Human Resource Planning, Recruitment and Selection, & Training and Development.</p>
23	III/I	CE503PC	Water Resources Engineering	<p>CO1: Understand various techniques and parameters of irrigation.</p> <p>CO2: Classify the canal and tube well irrigation and applicability of various theories on it.</p> <p>CO3: Analyze the design of lined canal and its problems.</p> <p>CO4: Illustrate various irrigation projects.</p> <p>CO5: Analyses the design and classification of river training works according to ISI recommendations.</p>
24	III/I	ME514OE	Fundamentals of Mechanical Engineering	<p>CO1: Recognize the importance of fundamental concepts of mechanical in civil engineering systems.</p> <p>CO2: Understand and appreciate significance of mechanical engineering in different fields of engineering.</p> <p>CO3: Apply fundamental principles of mechanical engineering in various civil systems.</p> <p>CO4: Solve the different mechanical problems.</p> <p>CO5: Classify the mechanical systems based on the different applications of engineering field.</p>
				<p>CO1: Define the properties of concrete material.</p> <p>CO2: Describe the behavior of concrete & properties of</p>



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25	III/I	CE505PC	Concrete Technology Lab	<p>fresh concrete.</p> <p>CO3: Describe the behavior of concrete & properties of hardened concrete.</p> <p>CO4: Recognize the Workability of freshly mix concrete.</p> <p>CO5: Appraise the difference between Self Compacting Concrete and normal.</p> <p>CO6: Examine the Non Destructive test's on concrete.</p>
26	III/I	CE506PC	Geographical Information Systems Lab	<p>CO1: Develop the points with reference from topographic maps.</p> <p>CO2: Identify the locations of ground control points.</p> <p>CO3: Create spatial data from tabular information that includes a spatial reference.</p> <p>CO4: Select the features by using Software.</p> <p>CO5: Modify the existing data sources for use in a project.</p> <p>CO6: Solve the field problems of road/water network by mapping.</p>
27	III/I	CE507PC	Hydraulics and Hydraulic Machinery Lab	<p>CO1: Understand the properties of the fluids.</p> <p>CO2: Describe and classification of the flows.</p> <p>CO3: Identify the discharge through the various discharge meters.</p> <p>CO4: Understand the How to move the fluid various flows and finding the discharge.</p> <p>CO5: Differentiate the fluid flow in layer by layer.</p>
28	III/I	MC500HS	Professional Ethics	<p>CO1: Understand importance of values and ethics in their personal lives & professional careers.</p> <p>CO2: Describe basic theories like virtue theory, rights theory, casuist theory.</p> <p>CO3: Understand professional practices in engineering field.</p> <p>CO4: Describe central responsibilities of engineers.</p> <p>CO5: Understand work place rights and responsibilities.</p> <p>CO6: Analyze various global issues in professional ethics.</p>
29	III/II	CE601PC	Design of steel structures	<p>CO1: Understand the behaviour and properties of structural steel members to resist bending, shear, tension and compression and apply the relevant codes of practice.</p> <p>CO2: Able to analyses the behaviour of structural steel members and undertake design at both serviceability and ultimate limit states.</p> <p>CO3: Able to design bolted and welded connections for tension and compression members and beams.</p> <p>CO4: Able to design the various steel structures.</p>



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30	III/II	CE602PC	Environmental Engineering	CO1: Analyze the characteristics of water source and water supply scheme.
				CO2: Define theory and working principles of water treatment units.
				CO3: Classify procedures of distribution system and wastewater treatment units.
				CO4: Examine the characteristics of sewage and the disposal of sewage.
				CO5: Design components of wastewater treatment plants and oxidation pond.
				CO6: Assess the quantity of drinking water and domestic waste water generated.
31	III/II	CE613PE	Ground water Development and Management	CO1: Evaluate groundwater resources using geophysical methods.
				CO2: Evaluate groundwater resources using geophysical methods.
				CO3: Model regional ground water flow.
				CO4: Different types and procedures for analysis of geophysical studies well hydraulics.
				CO5: Design water wells.
				CO6: Understand ground water occurrence, ground water movement well constructional etc.
32	III/II	CE604PC	Soil Mechanics	CO1: Distinguish the properties and classification of the Soils.
				CO2: Describe the Factors affecting permeability of the Soils.
				CO3: Develop the Stress Distribution of the compaction effects on soil properties.
				CO4: Develop the Stress Distribution of the Consolidation effects on soil properties.
				CO5: Classify the Shear Strength Of Soils Importance of parameters.
				CO6: Describe the classification of soil and its properties find out the permeability & various conditions flows in soil.
33	III/II	ME623OE	Fabrication process	CO1: Classify the process of casting and different allowances occurred during the casting and also different material selection for the patterns.
				CO2: Design core, core print and gating system in metal casting system.
				CO3: Describe different types of welding process for joining of similar and dis-similar metals
				CO4: Analyze the welding defects by different processes.
				CO5: Classify the different types of joining process like



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				<p>hot working, cold working blanking and piercing- Bending and forming wire drawing and tub drawing.</p> <p>CO6: Apply the different types extrusion process and forging process.</p>
34	III/II	CE604PC	Soil Mechanics Lab	<p>CO1: Examine the use of differential free swelling index.</p> <p>CO2: Classify and evaluate the behavior of the soils subjected to various loads.</p> <p>CO3: Assess the permeability of soil by constant and variable head method.</p> <p>CO4: Summarize the field density of the soil sample by core cutter and sand replacement method.</p> <p>CO5: Analyze the specific gravity of the soil by the grain size distribution of sieve analysis.</p>
35	III/II	CE605PC	Computer Aided Drafting-II Lab	<p>CO1: Draw of Steel bolted and welded connections.</p> <p>CO2: Draw the detailing of reinforcement in Cantilever, Simply supported and Continuous Beams (Both Singly & Doubly Reinforced Beams).</p> <p>CO3: Draw steel roof truss, steel plate girder.</p> <p>CO4: Design and detailing of reinforcement in RC one-way, two-way slabs and dog-legged staircases.</p> <p>CO5: Design detailing of reinforcement in canopy & columns both uni axial & biaxial.</p>
36	III/II	EN606HS	Advanced English Communication Skills Lab	<p>CO1: Speak effectively.</p> <p>CO2: Express and communicate fluently and appropriately in social professional contexts.</p> <p>CO3: Develop the comprehensive ability through English language enables the students in understanding and assimilating other engineering subjects.</p> <p>CO4: Enrich their communication and soft skills contributing to their overall development and success.</p> <p>CO5: Draft various letters and reports for all official purpose.</p> <p>CO6: Take part in social and professional communication.</p>
37	IV/I	CE701PC	Transportation Engineering	<p>CO1: Highway Development in India.</p> <p>CO2: Importance of Geometric Design.</p> <p>CO3: Introduction to traffic and Design of Traffic Signals.</p> <p>CO4: Explain the Intersection Design and Types of Intersections.</p> <p>CO5: Explain the Design of Pavements.</p> <p>CO6: Explain the highway engineering and design of pavements and to analysis the traffic signals.</p>



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38	IV/I	CE702PC	Estimation Quantity Surveying and Valuation	CO1: Assess of quantities for a Residential Building & Abstract cost Estimate.
				CO2: Design and Prepare Bar bending schedule for reinforcement works.
				CO3: Estimate the calculation of earth work quantity for roads and canals.
				CO4: Analyze the rates of work quantities and labour.
				CO5: Compare different types of contracts, tender document for building & valuation.
				CO6: To provide the student with the ability to and preparation of reports for estimation of various items.
39	IV/I	CE733PE	Ground Improvement Techniques.	CO1: Identify the type of problems in problematic soils and solve their problems using different ground improvement techniques.
				CO2: Design of reinforced earth retaining structures.
				CO3: Design drainage and dewatering systems for various civil engineering problems.
				CO4: Apply knowledge on ground improvement techniques such as reinforced earth, drainage and dewatering and grouting techniques on stabilization of expansive soils.
				CO5: Understand the need of ground improvement for stable engineered structures using various techniques.
				CO6: Understand the ground improvement techniques such as ground anchors, rock bolting and soil nailing.
40	IV/I	CE741PE	Traffic Engineering	CO1: Use statistical concepts and applications in traffic engineering.
				CO2: Identify traffic stream characteristics.
				CO3: Use modern software tools to estimate traffic measures such as delay and LOS for signalized and unsignalized intersections.
				CO4: Design a pre-timed signalized intersection, and determine the signal splits.
				CO5: Design an actuated signalized intersection.
				CO6: Understand Warrants and ability to use them to evaluate intersections.
41	IV/I	CE723PE	Foundation Engineering	CO1: Identify a suitable foundation system for a structure.
				CO2: Evaluate the importance of raft foundation and principles of design for buildings and tower structures.
				CO3: Analyze and design pile foundations.
				CO4: Examine and discuss various machine foundations.
				CO5: Analyze and design Sheet piles and cofferdams.



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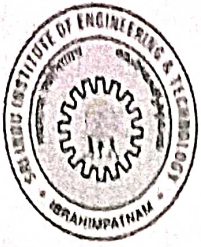
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42	IV/I	CE703PC	Transportation Engineering Lab	CO1: Identifying the aggregate strength.
				CO2: Analyze aggregate size and shape.
				CO3: Identifying the bituminous strength.
				CO4: Determine the bituminous elongation point.
				CO5: Determine traffic volume studies.
				CO6: Analyze the aggregate strengths and bituminous strengths.
43	IV/I	CE704PC	Environmental Engineering Lab	CO1: Define physical, chemical, biological characteristics of water and wastewater.
				CO2: Examine break-point chlorination.
				CO3: Assess optimum dosage of coagulant.
				CO4: Assess the quality of water and wastewater.
				CO5: Examine the use of Nepheloturbidity meter.
				CO6: Analyze the difference of Total Solids, Total Dissolved Solids and Settle able solids.
44	IV/I	CE705PC	Industry Oriented Mini Project	CO1: Impart skills in preparing detailed project report describing the project and results.
				CO2: Manage a team to complete a project within a given time frame.
				CO3: Find the solution of identified problem with help of modern technology.
45	IV/I	CE706PC	Seminar	CO1: Adapt a factual approach to decision making
				CO2: Effectively communicate by making an oral presentation before an evaluation committee.
				CO3: Analyze new technologies in all engineering fields.
46	IV/II	CE864PE	Industrial Waste Water Treatment	CO1: Identify the characteristics of industrial wastewaters.
				CO2: Describe pollution effects of disposal of industrial effluent.
				CO3: Identify and design treatment options for industrial wastewater.
				CO4: Formulate environmental management plan.
				CO5: Identify waste water generation from various industries.
47	IV/II	CE851PE	Waste Management	CO1: Identify the physical and chemical composition of wastes.
				CO2: Analyze the functional elements for solid waste management.
				CO3: Analyze the functional elements for liquid waste management.
				CO4: Describe the effluent treatment Plants and its disposal.



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48	IV/II	ME519OE	Total Quality Management	CO1: Memorize the concept of TQM, quality and business performance attitude, and involvement of top management.
				CO2: Analyze Measuring Quality Costs, Accounting Systems and Quality Management.
				CO3: Summarize the evolution of bench marking, meaning of bench marking.
				CO4: Memorize Universal Standards of Quality: ISO around the world.
				CO5: Describe the evolution of bench marking, meaning of bench marking.
49	IV/II	CE801PC	Major Project	CO1: Learn to work as a team and to focus on getting a working project done within a stipulated period of time.
				CO2: demonstrate the understanding of impact of engineering solutions on the society.
				CO3: Plan, analyze, design and implement using different tools.

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