

ESWAR COLLEGE OF ENGINEERING (Approved by AICTE, & Affiliated to JNTUK, A.P.) KESANUPALLI (V), NARASARAOPETA-522549, AP www.eswarcollegeofengg.org, email:eswarcollegeofengg@gmail.com

DEPARTMENT OF CIVIL ENGINEERING

Course Outcomes

Year/Sem: II B.Tech I SEM

A.Y:2019-2020

Course Name: Probability & Statistics		
Course Code: CE2101		
Analyse and compare various Probability distributions for both		
discrete and continuous random variables		
Describe and compute confidence intervals for the mean of a population		
Compute confidence intervals for the proportion and the variance		
Understand population and test the hypothesis concerning mean, proportion		
Able to know the variance and perform ANOVA test		
Differentiate a curve to the numerical data		

Course Name: Basic Electrical and Electronics Engineering			
Course Coo	Course Code: CE2102		
CE2102.1	Understand the basic principles of electrical law's and analysis of networks		
CE2102.2	Able to know principle of operation and construction details of DC machines.		
CE2102.3	Classify the principles of operation and construction details of transformer		
CE2102.4	Analyse the operation and construction details of alternator and		
	3-Phase induction motor		
CE2102.5	Define the operation of PN junction diode, half wave, full wave rectifiers and OP-		
	AMPs		
CE2102.6	To learn the operation of PNP and NPN transistors and various amplifiers		

Course	Name:	Strength	of ma	terials-I
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Course Co	de: CE2103	
CE2103.1	Understand the basic materials behaviour under the influence of different	
	external loading conditions and the support conditions	
CE2103.2	Able to draw the diagrams indicating the variation of the key performance	
	features like bending moment and shear forces	
CE2103.3	Knowledge of bending concepts and calculation of section modulus	
CE2103.4	Determination of stresses developed in the beams and deflections due to	
	various loading conditions	
CE2103.5	To classify cylinders based on their thickness and to derive equations for	
	measurement of stresses across the cross section when subjected to external	
	pressure	
CE2103.6	Analysis stresses across section of the thin and thick cylinders to arrive at	
	optimum sections to withstand the internal pressure using Lame's equation	



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Course Name: Building Materials & Construction		
Course Code: CE2104		
CE2104.1	Able to identify different building materials and their importance in building	
	construction	
CE2104.2	Differentiate brick masonry, stone masonry in building construction	
CE2104.3	Understand to use of lime and cement in various constructions	
CE2104.4	Analyse the importance of building components and finishing's	
CE2104.5	Able to know the classification of aggregates, sieve analysis and moisture content	
CE2104.6	Knowledge of basic building materials and their properties	

Course Name: Surveying		
Course Code:	CE2105	
CE2105.1	To Apply the knowledge to calculate angles, distances and levels	
CE2105.2	Identify data collection methods and prepare field notes	
CE2105.3	Understand the working principles of survey instruments, measurement errors and	
	corrective measures	
CE2105.4	Determination of survey data and compute areas and volumes, levels by different	
	type of equipment	
CE2105.5	Apply the surveying principles to determine areas and volumes and setting out	
	curves	
CE2105.6	Able to Identification of source of errors and rectification methods	

Course Nam	Course Name: Fluid Mechanics		
Course Code	e: CE2106		
CE2106.1	Understand the various properties of fluids and their influence on fluid motion		
	and analyse a variety of problems in fluid statics and dynamics		
CE2106.2	Calculate the forces that act on submerged planes and curves		
CE2106.3	Ability to analyse various types of fluid flows		
CE2106.4	Apply the integral forms of the three fundamental laws of fluid mechanics to		
	turbulent and laminar flow through pipes and ducts		
CE2106.5	Determination of order to predict relevant pressures, velocities and forces		
CE2106.6	Able Measure the quantities of fluid flowing in pipes, tanks and channels		

Course Name: Survey field work –I Lab		
Course Code: CE2107		
CE2107.1	To understand the various types of surveying methods	
CE2107.2	Determination of the areas by applying the chain surveying	
CE2107.3	Analyse the area calculations by triangulations methods	
CE2107.4	7.4 Finding the area boundaries by plane table survey	
CE2107.5	CE2107.5 Determination of distance between two inaccessible points by using compass	
CE2107.6	CE2107.6 To understand the Height of the instrument method	



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Course Name: Strength of materials Lab		
Course Code: CE2108		
CE2108.1	Determination of Tension test on Mild steel bar by UTM	
CE2108.2	Understand the Bending test on cantilever beam of steel / wood	
CE2108.3	Analyse the torsion test on specimen sample	
CE2108.4	Able to know the Compression test on wood or concrete	
CE2108.5	Apply the Brinnell's / Rock well's hardness testing machine for hardness of	
	specimen	
CE2108.6	Define the Verification of Maxwell's Reciprocal theorem on beams	



Year/Sem: II B.Tech II SEM

Course Name: Building planning and Drawing			
Course Code	Course Code: CE2201		
CE2201.1	Able to plan various buildings as per the building by-laws		
CE2201.2	Distinguish the relation between the plan, elevation and cross section		
CE2201.3	Able to know the identify the form and functions among the buildings		
CE2201.4	Learn the skills of drawing building elements and plan the buildings as per		
	requirements		
CE2201.5	Classification of learn the skills of drawing building elements and plan the		
	buildings as per requirements		
CE2201.6	Differentiate the sign conventions and symbols of drawings		

Course Name: Strength of materials -II

Course runne: Strength of materials 11			
Course Co	Course Code: CE2202		
CE2202.1	Determination of Principal stresses and strains developed in cross section of		
	the beams		
CE2202.2	Understand the concepts of torsion and governing torsion equation, and there		
	by calculate the power transmitted by shafts and springs		
CE2202.3	To classify columns and calculation of load carrying capacity and to assess		
	stresses due to axial and lateral loads		
CE2202.4	Analyse the unsymmetrical bending in beams Location of neutral axis		
	Deflection of beams under unsymmetrical bending		
CE2202.5	Knowledge about different engineering applications like shafts, springs,		
	columns and struts subjected to different loading conditions		
CE2202.6	Classify the concepts of failures in the material by theories of failures		

Course Name: Hydraulics and Hydraulic Machinery		
Course Code: CE2203		
CE2203.1	Differentiate uniform and non-uniform open channel flow problems	
CE2203.2	Apply the principals of dimensional analysis and similitude in hydraulic model testing	
CE2203.3	Understand the working principles of various hydraulic machineries and pumps	
CE2203.4	Analyse the characteristics of hydraulic jump	
CE2203.5	Determination of dimensional analysis for fluid flow problems	
CE2203.6	Classify the various types of various types of hydraulic machines and Pumps	



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Course Name: Concrete Technology		
Course Code	Course Code: CE2104	
CE2104.1	Understand basic concepts of concrete	
CE2104.2	Analyse the basic ingredients of concrete and their role in concrete and their	
	behaviour in the field	
CE2104.3	Classify the fresh concrete properties and hardened concrete properties	
CE2104.4	Understand the behaviour of concrete in various environments	
CE2104.5	Evaluate ingredients of concrete through lab tests. design concrete mix by IS	
	method	
CE2104.6	To understand durability properties of concrete	

Course Name: Structural Analysis-I		
Course Co	Course Code: CE2105	
CE2105.1	Differentiate the between the determinate and indeterminate structures	
CE2105.2	Analyse behaviour of structures due to the expected loads, including the moving	
	loads, acting on the structure	
CE2105.3	Classify the bending moment and shear forces in beams for different fixity	
	conditions	
CE2105.4	Understand the continuous beams using various methods	
CE2105.5	Determination of three moment method, slope deflection method, energy theorems	
CE2105.6	Able to know the influence line diagrams for various types of moving loads on	
	beams/bridges	

Course Name: Transportation Engineering-I	
Course Code: CE2106	
CE2106.1	Able to draw a Plan highway network for a given area
CE2106.2	To Determine Highway alignment
CE2106.3	Design Intersections and prepare traffic management plans
CE2106.4	Judge suitability of pavement materials and design flexible and rigid
	pavements
CE2106.5	To classify the different concepts in the field of Highway Engineering
CE2106.6	Able to know the types and classification of roads and intersections

Course Name: Fluid Mechanics & Hydraulics Machinery Lab		
Course Code:	Course Code: CE2207	
CE2207.1	Understand the Calibration of Venturi meter & Orifice meter	
CE2207.2	Determination of Coefficient of discharge for a small orifice and mouth piece	
	by a constant head and variable head method	
CE2207.3	Able to know the Verification of Bernoulli's equation	
CE2207.4	Define the Performance test on Pelton wheel turbine	
CE2207.5	Analyse the Calibration of contracted Rectangular Notch and /or Triangular	
	Notch	
CE2208.6	Apply the Hydraulic jump test setup to study of Study of Hydraulic jump	



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Course Name: Surveying Field Work-II Lab		
Course Code:	Course Code: CE2108	
CE2108.1	Determination Horizontal and Vertical Angles by the method of repetition method by theodolite	
CE2108.2	Define the distance between two inaccessible points	
CE2108.3	Able to know the curve setting method	
CE2108.4	Apply the total station method to know the distance between two inaccessible points	
CE2108.5	Analyse the Contouring maps	
CE2108.6	Understand the Heights and distance problems using tachometric principles	

Course Name: Managerial Economics & Financial Analysis		
Course Code	Course Code: CE2209	
CE3209.1	Able to know the knowledge of estimating the Demand and demand	
	elasticity's for a product	
CE3209.2	The knowledge of understanding of the Input-Output-Cost relationships	
CE3209.3	Estimation of the least cost combination of inputs	
CE3209.4	Prepare Financial Statements and the usage of various Accounting tools for	
	Analysis	
CE3209.5	evaluate various investment project proposals with the help of capital	
	budgeting techniques for decision making	
CE3209.6	Understand the concept of Capital, Capital Budgeting and the techniques	
	used to evaluate Capital Budgeting proposals	



Year/Sem: III B.Tech I SEM

Course Nat	Course Name: Management Science	
Course Coo	Course Code: CE3101	
CE3101.1	Analyse process of management and to provide basic insight into select	
	contemporary management practices	
CE3101.2	Able to know conceptual knowledge on functional management and strategic	
	management	
CE3101.3	Define the Evaluation of Management thought	
CE3101.4	Understand Global Leadership and Organizational behaviour Effectiveness(GLOBE)	
	structure	
CE3101.5	Classify the Principles and Types of Management	
CE3101.6	Development of Network by CPM/PERT	

Course Nam	Course Name: Engineering Geology	
Course Code	Course Code: CE3102	
CE3102.1	Able to Identify and classify the geological minerals	
CE3102.2	Understand and Measure the rock strengths of various rocks	
CE3102.3	Classify and measure the earthquake prone areas to practice the hazard	
	zonation	
CE3102.4	Prepares, analyses and interpret the Engineering Geologic maps	
CE3102.5	Investigate the project site for mega/mini civil engineering projects	
CE3102.6	Site selection for mega engineering projects like Dams, Tunnels, disposals	

Course Name: Structural Analysis-II	
Course Code: CE3103	
CE3103.1	Differentiate Determinate and Indeterminate Structures
CE3103.2	Analyse the Carryout lateral Load analysis of structures
CE3103.3	Understand the Cable and Suspension Bridge structures
CE3103.4	Define structures using Moment Distribution method
CE3103.5	Classify the structures by kani's method
CE3103.6	Able to know the characteristics cables and portal frames

Course Name: Design and Drawing of Reinforced Concrete Structures	
Course Code: CE3104	
CE3104.1	Able to understand the various design methods in RCC
CE3104.2	Differentiate the over and under reinforced structures with loading
CE3104.3	Analysis and design of flexural members and detailing
CE3104.4	Classification of various types slabs in RCC
CE3104.5	Design different type of compression members and footings
CE3104.6	Understand different types of footings and design



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Course Name: Transportation Engineering-II	
Course Code: CE3105	
CE3105.1	Understand the various components and their functions in a railway track
CE3105.2	Able to know design principles of geometrics in a railway track
CE3105.3	Apply the Plan track layouts and control movement of trains
CE3105.4	Classify the Functions of various Components like Rails, Sleepers and
	Ballast
CE3105.5	Design airport geometrics and airfield pavements
CE3105.6	Plan, construct and maintain Docks and Harbours

Course Name: Concrete Technology Lab	
Course Code: CE3106	
CE3106.1	Determination of normal Consistency and fineness of cement
CE3106.2	Able to know the initial setting time and final setting time of cement
CE3106.3	Determination of specific gravity and soundness of cement
CE3106.4	Understand the properties of concrete
CE3106.5	Define the bulking of sand
CE3106.6	Classify workability of concrete by compaction factor method

Course Name: Engineering Geology Lab		
Course Code	Course Code: CE3107	
CE3107.1	Able to identify the Megascopic types of Ore minerals & Rock forming	
	minerals	
CE3107.2	Classify the types of Igneous, Sedimentary, Metamorphic rocks	
CE3107.3	To identify the topography of the site & material selection	
CE3107.4	Able to Know the occurrence of materials using the strike & dip problems	
CE3107.5	Define the site parameters such as contour, slope & aspect for topography	
CE3107.6	Differentiate the physical and chemical properties of specimens	

Course Name: Transportation Engineering lab	
Course Code: CE3108	
CE3108.1	Able to know penetration value, ductility value, softening point
CE3108.2	To understand the test the stability for the given bituminous mix
CE3108.3	Define the carry out surveys for traffic volume, speed and parking
CE3108.4	Obtain the optimum bitumen content for Bituminous Concrete
CE3108.5	Determine the traffic volume, speed and parking characteristics
CE3108.6	Draw highway cross sections and intersections



Year/Sem: III B.Tech II SEM

Course Name: Design And Drawing of Steel Structures	
Course Code: CE3201	
CE3201.1	Understand the various Work relevant IS codes
CE3201.2	Analysis and design of flexural members and detailing
CE3201.3	Able to Design compression members of different types with connection
	detailing
CE3201.4	Understand Design of tension and compression members in trusses
CE3201.5	Differentiate the Plate girder and Gantry Girder and their Design
CE3201.6	Apply the drawings pertaining to different components of steel structures

Course Name: Geotechnical engineering -I

Course Code: CE3202

CE3202.1	Able to know the definition of the various quantities related to soil mechanics and
	Establish their inter-relationships.
CE3202.2	Determination of the various index properties of the soils and classify the soils
CE3202.3	Understand the importance of the different engineering properties of the soil
CE3202.4	Classify the properties of compaction, permeability, consolidation and shear
	strength and determine them in the laboratory
CE3202.5	understand the concept of shear strength of soils
CE3202.6	Differentiate the shear parameters of sands and clays and the areas of their
	application

Course Name: Environmental Engineering-I	
Course Code: CE3203	
CE3203.1	Analyse source based on quality and quantity and Estimate design
	population and water demand
CE3203.2	Design a water treatment plant for a village/city
CE3203.3	Estimation of the Sewage Treatment Plant for a town/city
CE3203.4	Classify the sewers and plumbing systems for building
CE3203.5	Apply the various methods to treatment the water
CE3203.6	Able to know the distribution systems of the water



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Course Name: Water Resource Engineering-I	
Course Code: CE3204	
CE3204.1	Able to understanding of the theories and principles governing the
	hydrologic processes
CE3204.2	Analyse the quantify hydrological components
CE3204.3	Apply concepts in hydrologic design of water resources projects
CE3204.4	Define Intensity-Duration-Frequency and Depth-Area Duration curves to
	design hydraulic structures
CE3204.5	Differentiate flow mass curve and flow duration curve
CE3204.6	Develop unit hydrograph and synthetic hydrograph

Course Name: Waste Water Management		
Course Code:	Course Code: CE3205	
CE3205.1	Know the quality and quantity of water for various industries and Advanced water treatment methods	
CE3205.2	Learn the common methods of treatment of wastewaters and Biological treatment methods	
CE3205.3	Analyse methods to reduce impacts of disposal of wasters into environment and CETPs	
CE3205.4	Classify the treatment of wastewaters from specific industries like steel plants	
CE3205.5	Able to know methods of treatment of wastewaters from industries like Aqua,	
	dairy, sugar plants, and distilleries that imply biological treatment methods	
CE3205.6	Applying the neutralization methods for water treatment	

Course Name: Geotechnical Engineering Lab	
Course Code: CE3206	
CE3206.1	Able to know the permeability of soils
CE3206.2	Understand the Compaction, Consolidation and shear strength characteristics
CE3206.3	Analyse the index properties of the soils
CE3206.4	Differentiate the various types and classifications of the soils
CE3206.5	Apply Atterberg's Limits to know plasticity of soils
CE3206.6	Differentiate the Permeability, Compaction, consolidation, shear strength parameters & CBR value



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Course Name: Environmental Engineering Lab		
Course Coo	Course Code: CE3207	
CE3207.1	Estimate some important characteristics of water, wastewater and soil	
CE3207.2	Classify the conclusion and decide whether the water is suitable for	
	Drinking/Construction /Agriculture/ Industry	
CE3207.3	Estimate Chloride, EC and Salinity of Soil and suggest their suitability	
CE3207.4	Able to know the COD & BOD Values in water	
CE3207.5	Classifying the various methods to treatment of water	
CE3207.6	Demonstration of various instruments used in testing of water and soil and study of	
	Drinking water standard	

Course Name: Computer Aided Engineering Lab	
Course Code: CE3208	
CE3208.1	Understand Model the geometry of real-world structure Represent the
	physical model of structural element/structure
CE3208.2	Analyse the Perform analysis of the frame
CE3208.3	Able to Design and detailing of built up steel beam
CE3208.4	Developing a design programme for foundation
CE3208.5	Differentiate the Interpret from the Post processing results
CE3208.6	Analysis & Design of Roof Trusses



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Year/Sem: IV B.Tech I SEM

Course Name: Environmental Engineering - II	
Course Code: CE4101	
CE4101.1	Plan and design the sewerage systems
CE4101.2	Able to Select the appropriate appurtenances in the sewerage systems
CE4101.3	Analyze sewage and suggest and design suitable treatment system for
	sewage treatment
CE4101.4	Identify the critical point of pollution in a river for a specific amount of
	pollutant disposal into the river
CE4101.5	Able to know suitable disposal method with respect to effluent standards
CE4101.6	Differentiate the one pipe & two pipe methods

Course Name: Water Resource Engineering-II		
Course Code:	Course Code: CE4102	
CE4102.1	Able to understanding of the theories and principles governing the	
	hydrologic processes	
CE4102.2	Analyse the quantify hydrological components	
CE4102.3	Apply concepts in hydrologic design of water resources projects	
CE4102.4	Define Intensity-Duration-Frequency and Depth-Area Duration curves to	
	design hydraulic structures	
CE4102.5	Differentiate flow mass curve and flow duration curve	
CE4102.6	Develop unit hydrograph and synthetic hydrograph	

Course Name	Course Name: Geotechnical Engineering-II	
Course Code:	CE4103	
CE4103.1	Able to understand the various types of shallow foundations	
CE4103.2	Analyse and compute the magnitude of foundation settlement and decide on the size of the foundation accordingly	
CE4103.3	Define the field test data and arrive at the bearing capacity	
CE4103.4	Design the principles of bearing capacity of piles	
CE4103.5	Differentiate the principles of important field tests such as SPT and Plate bearing test	
CE4103.6	Able to know the concepts of pile foundations and determine their load carrying capacity	



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Course Name: Remote Sensing & GIS Applications	
Course Code: CE4104	
CE4104.1	Understand the basic principles of Remote Sensing and GIS techniques
CE4104.2	Able to learn various types of sensors and platforms
CE4104.3	Differentiate the aerial photographs and satellite imageries
CE4104.4	Create and input spatial data for GIS application
CE4104.5	Apply RS and GIS concepts for application in Civil Engineering
CE4104.6	Classify the spatial data structures, raster and vector data formats

Course Name: Ground Improvement Techniques		
Course Coo	Course Code: CE4105	
CE4105.1	Able to possess the knowledge of various methods of ground improvement and	
	their suitability	
CE4105.2	Differentiate to learn the concepts, purpose and effects of grouting	
CE4105.3	Understand the position to design a reinforced earth embankment and check its	
	stability	
CE4105.4	Classify the various functions of Geosynthetics and their applications in Civil	
	Engineering practice	
CE4105.5	Able to know reinforced earth technology and soil nailing can obviate the	
	problems posed by the conventional retaining walls	
CE4105.6	Defining the improvement of engineering performance of soils	

Course Name: Environmental impact assessment and management	
Course Code: CE4106	
CE4106.1	To impart knowledge on different concepts of Environmental Impact
	Assessment
CE4106.2	Able to Prepare EMP, EIS, and EIA report
CE4106.3	Analyse and Identify the risks and impacts of a project
CE4106.4	Define and Evaluation the EIA report
CE4106.5	Estimate the cost benefit ratio of a project
CE4106.6	Know the role of stakeholder and public hearing in the preparation of EIA

Course Name: GIS & CAD Lab	
Course Code: CE4107	
CE4107.1	Able to understand the Work comfortably on GIS software
CE4107.2	Define Digitize and create thematic map and extract important features
CE4107.3	Classifying the Develop digital elevation model
CE4107.4	Use structural analysis software to analyse and design 2D and 3D frames
CE4107.5	Design and analyse retaining wall and simple towers using CADD software
CE4107.6	learn to apply GIS software to simple problems in water resources and
	transportation engineering



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Course Name: Irrigation Design and Drawing Lab	
Course Code: CE4108	
CE4108.1	To understand design principle of various irrigation structures
CE4108.2	Design and analyse the surplus weir
CE4108.3	Able to know design and working of Tank sluice with a tower head
CE4108.4	Draw a plan of Canal drop-Notch type and working principles
CE4108.5	Understand the efficiency of Canal regulator
CE4108.6	Classify the design of Syphon aqueduct type III



Year/Sem: IV B.Tech II SEM

Course Name: Estimation Specifications and Contracts	
Course Code: CE4201	
CE4201.1	Able to determine the quantities of different components of buildings
CE4201.2	Analyse position to find the cost of various building components
CE4201.3	Understand the capable of finalizing the value of structures
CE4201.4	Differentiate various specifications and components of the buildings
CE4201.5	Understand the quantity calculations of different components of the buildings
CE4201.6	Classifying the types of contracts & documents

Course Name: Construction Technology & Management		
Course Code:	Course Code: CE4202	
CE4202.1	Analyse the importance of construction planning	
CE4202.2	Define the functioning of various earth moving equipment	
CE4202.3	Able to know the methods of production of aggregate products and	
	concreting	
CE4202.4	Apply the gained knowledge to project management and construction	
	techniques	
CE4202.5	Classify the importance of safety in construction projects	
CE4202.6	Understand the concept of project management including network drawing	
	and monitoring	

Course Name: Pre stressed Concrete	
Course Code: CE4203	
CE4203.1	Able to know the concepts of pre stressing
CE4203.2	Understand different pre stressing systems and devices
CE4203.3	Analyse the losses of pre stress including short and long term losses
CE4203.4	Analysis and design of pre stressed concrete members under flexure, shear and
	torsion
CE4203.5	Analyse and design pre stressed concrete beams under flexure and shear
CE4203.6	Understand the relevant IS Code provisions for pre stressed concrete

Course Name: Solid and Hazardous Waste Management	
Course Code: CE4204	
CE4204.1	Able to Design the collection systems of solid waste of a town
CE4204.2	Understand the Design treatment of municipal solid waste and landfill
CE4204.3	Analyse to Know the criteria for selection of landfill
CE4204.4	Define the Characterise the solid waste and design a composting facility
CE4204.5	Differentiate the Method of treatment and disposal of Hazardous wastes
CE4204.6	Classifying the methods of solid disposal methods