

DEPARTMENT OF CIVIL ENGINEERING
B Tech. 6th SEM
COURSE OUTCOMES

***COURSE OUTCOMES OF STRUCTURAL
ENGINEERING DESIGN-II***

- CO1.** Learner is able to understand the difference between plastic and elastic analysis
- CO2.** Learner has clarity about the various design philosophies used in structure engineering design
- CO3.** Learner is able analyze and design simple bolted and welded connections subjected to axial load.
- CO4.** Learner is able to analyze and design axially loaded Tension member and compression member using limit state method.
- CO5.** Learner is able to analyze and design Laterally Supported and Laterally Unsupported Beams using limit state method

***COURSE OUTCOMES ENVIRONMENTAL
ENGINEERING***

- CO1.** The students must be able to apply the knowledge to plan, design, construct and monitor a water/wastewater treatment plant as per a city's water demand.
- CO2.** Students must be able to summarize complexities in the characteristics(s) of water/wastewater that is available and the correct treatment methods to be adopted.
- CO3.** Students must be able to justify the patterns of water storage and recommend the correct distribution methods suitable for the city under consideration.
- CO4.** The student must be able to analyze the wastes coming in for treatment and decide upon the techniques of treatment to be given.
- CO5.** Students must be able to apply the knowledge reused to develop a positive attitude to earth, environment and its protection against pollution and adopt safer methods of waste disposal.

***COURSE OUTCOMES OF ENGINEERING
ECONOMICS, ESTIMATING AND COSTING***

- CO1.** Learner is able to identify various items of building and able to determine approximate estimation

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of buildings.

CO2. Learner is able to determine detailed quantity estimate and Bar bending schedule of civil engineering works from given details.

CO3. Learner is able to determine quantities of materials and rate analysis of any items in residential building works.

CO4. Learner is able to understand Contracts and Tender Documents.

CO5. Learner is able to understand basic Engineering Economics in construction industry.

COURSE OUTCOMES OF CONCRETE TECHNOLOGY

CO1. Identify properties of concrete making materials.

CO2. Acquire fundamental knowledge of fresh concrete.

CO3. Acquire fundamental knowledge of hardened concrete.

CO4. Understand the basic behavior of mix design of concrete, its application in a varied environment.

CO5. Handle the quality control of special concrete on site and become good professional engineers.

COURSE OUTCOMES OF CONSTRUCTION ENGINEERING AND MANAGEMENT

CO1. Students are able to understand basic project planning and scheduling method for construction project

CO2. Students will get an introduction to the different construction method and equipment.

CO3. Students are able to understand about the key regulatory requirement to safeguards the construction projects

CO4. Students are able to understand planning and organizing construction site & resource.

CO5. Students are expected to know contract and its types.

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***COURSE OUTCOMES OF STRUCTURAL
ENGINEERING LAB***

CO1. Learner will be able to understand the latest version of staadpro software for analysis of complex structures.

CO2. Learner will be able to analyse & design geometric modeling of RCC frame.

CO3. Learner will be able to analyse & design geometric modeling of RCC footings.

CO4. Learner will be able to analyse & design geometric steel frame.

CO5. Learner will be able to interpret results of desired steel frames.

***COURSE OUTCOMES OF
ENVIRONMENTAL ENGINEERING LAB***

CO1 Able to determine different parameters of water and waste water.

CO2 Able to examine biochemical oxygen demand and chemical oxygen demand of given samples.

CO3 Able to understand the technologies required for domestic and industrial wastewater treatment

***COURSE OUTCOMES OF COMPUTER
AIDED CIVIL ENGINEERING DRAWING
LAB***

CO1. To develop graphical skills for communicating concepts, ideas and designs of engineering products graphically/ visually.

CO2. To get exposure to desired standards relating to technical drawings using Computer Aided Design and Drafting practice

CO3. Develop Parametric design and the conventions of formal engineering drawing

CO4. Produce and interpret 2D & 3D drawings

CO5. Examine a design critically and with understanding of CAD software.

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CO6. To do a detailed study of an engineering artefact

***COURSE OUTCOMES OF CONCRETE
TECHNOLOGY LAB***

CO 1 Outline the importance of testing of cement and its properties.

CO 2 Assess the different properties of aggregate.

CO 3 Summarize the concept of workability with admixture and testing of concrete.

CO 4 Describe the preparation of green and hardened concrete and their properties.

CO 5 Describe the properties of Mix Design.