DEPARTMENT OF CIVIL ENGINEERING
B Tech. 8ᵗʰ SEM
COURSE OUTCOMES

COURSE OUTCOMES OF STRUCTURAL ENGINEERING DESIGN-IV

CO1. Leaner is able to analyse and design continuous beam, building frames, strap beam and raft footings as per the most recent BIS code of practices.

CO2. Leaner is able to analyse and design Cantilever and counter fort retaining wall as per the most recent BIS code of practices.

CO3. Leaner is able to analyse and design water tank and it's staging as per the BIS code of practices.

CO4. Leaner is able to analyse and design bridges as per the BIS code of practices.

CO5. Leaner is able to analyse pre stressed concretes beam for flexure and losses.

COURSE OUTCOMES OF OPEN CHANNEL FLOW

CO1. Become efficient in knowledge on the different hydraulics properties involved in River and Channel flow problems.

CO2.Design pipe and open channel flow for different geometric, roughness and flow

parameters.

CO3. Help students to develop an understanding of free surface flow and enclosed flow in the real field but in the controlled environment.

CO4.To study the variation of dependent hydraulic variables with independent variables of pipe flow and open channel flow.

CO5.To verify the theoretical results with the experimental results.

CO6. To study different flow meters that will be useful for flow measurements and design study in water resources engineering.

COURSE OUTCOMES OF AIR POLLUTION AND CONTROL MEASURES

CO1. Learner is able to analyse and design stack for emission of pollutant in atmosphere.

CO2. Learner is able to understand impact of air pollution environment.

CO3. Learner is able to analyse various techniques of stack sampling and problems of

concentration modeling .

CO4. Learner has clarity about the irreversible impacts on human & animals due to major pollution types

CO5. Learner must understand the air quality parameters and its long term effects.

COURSE OUTCOMES OF STRUCTURAL ENGINEERING DRAWING (LAB)

CO1. Leaner is able to prepare BIM for various elements of steel structure.

CO2. Leaner is able to prepare BIM for various joints used in steel structures.

CO3. Leaner is able to prepare BIM for steel Plate Girder (Welded / Bolted).

CO4. Leaner is able to prepare BIM for RCC structural elements like beam, slab, and

footing.

CO5. Leaner is able to prepare BIM for RCC structures like retaining walls and water tanks.

COURSE OUTCOMES OF PROJECT (PHASE-II)

CO1. Analyze the problem, formulation and solution of the selected project .

CO2. Develope solutions for contemporary problems using modern tools for sustainable

development.

CO3. Demonstrate ethical and professional sustainability while working in a team and

communicate effectively for the benefit of the society.

CO4. Understand the engineering, finance and management principles.

CO5. Learner will be able to understand modern changes in engineering techniques.

COURSE OUTCOMES OF COMPUTER APPLICATION IN CIVIL ENGINEERING (LAB)

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

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

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

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

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CO5.Learner will able to interpretate results of desired steel frames.