

DEPARTMENT OF CIVIL ENGINEERING
BTech. 3rd SEM
COURSE OUTCOMES

***COURSE OUTCOMES OF INTRODUCTION
TO FLUID MECHANICS***

CO1. Apply the concept of fluid statics in different engineering problem.

CO2. Apply the principle of fluid kinematics.

CO3. Apply the energy and momentum principle.

CO4. Analyse the pipe flow and open channel flow.

CO5. Analyse the flow through mouthpiece, orifice, notch and weir.

***COURSE OUTCOMES INTRODUCTION TO
SOLID MECHANICS***

CO1. Define and explain the basic concepts of Mechanics of Solids and to be able apply the stress-strain equations to find out stress-strain in bars.

CO2. Analyze stresses and strains in a rectangular element and to find out the maximum stress in an inclined plane and its location.

CO3 Draw bending moment and shear force diagram for loaded beams and to be able to find out bending and shear stresses at the cross-section of the beam.

CO4 Calculate the critical load for columns and be capable of analysing dams and retaining walls.

CO5. Apply the concepts of unsymmetrical bending and torsion to solve the power transmission problems along with design of spring for shock-absorption.

***COURSE OUTCOMES OF PLANE
SURVEYING – I***

CO1. Students will be able to: Determine elevations by applying different techniques.

CO2. Students will be able to: Deal with the minor instruments and will be familiar with their functioning

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CO3. Students will be able to: Do transverse computations, detect and rectify errors.

CO4. Students will be able to: Do the various methods of traversing with Plane table.

CO5. Students will be able to: Set out various curves with the field problems.

COURSE OUTCOMES OF BUILDING MATERIALS

CO1. Identify properties of construction material.

CO2. Acquire fundamental knowledge of fresh and harden concrete

CO3. Describe characteristic of timber and use of eco friendly material in construction

CO4. Extend the knowledge about characteristic of paint, varnishes etc.

CO5. Extend the knowledge about steel, aluminium, glass etc.

COURSE OUTCOMES OF FLUID MECHANICS LABORATORY

CO1. Understand the knowledge about the basic terminologies and will be able to find out various conditions related to stability of floating bodies.

CO2. Learner will be able to find discharge from various flow measuring devices.

CO3. Apply Bernoulli's equation in flow measuring devices together with their calibration.

CO4. Learner will be able to find critical velocity in pipe.

CO5. Learner will be able to find coefficient of discharge in orifice meter and mouth piece.

COURSE OUTCOMES OF SURVEYING LABORATORY

CO1. Able to Prepare the survey sheet according to the method used.

CO2. Able to apply theoretical considerations in field and other engineering projects.

CO3. Able to survey the area using different methods of plane tabling.

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CO4. Able to record the reduced levels using various methods of leveling.

CO5. Able to measurement of horizontal & vertical angles by Theodolite.

***COURSE OUTCOMES OF BUILDING
MATERIAL LABORATORY***

CO1. Learner will able to find fineness of cement by sieving method & blain apparatus.

CO2. Learner will able to find compressive & Tensile strength of cement.

CO3 Learner will able to do soundness and specific gravity test of cement.

CO4 Learner will able to find specific gravity and water absorption of aggregate.

CO5 Learner will able to determine Izod Charpy value of given material.

***COURSE OUTCOMES OF SOFTWARE
LABORATORY***

CO1. Learner will able to find out reaction, shear force, & bending moment diagram of simply supported beam.

CO2.Learner will able to find out reaction, shear force, & bending moment diagram of Cantilever beam.

CO3.To be able to find reaction, shear force & B.M. for different types of loading.

CO4.To be able to draw Mohr circle for different value of principal stresses & strain.

CO5.To be able to determine the torque of shaft.