



Techno College of Engineering Agartala

An Engineering College Approved by AICTE, MHRD, Govt. of India
Affiliated to Tripura University (A Central University),



Department of Civil Engineering

- Determine Mechanical Properties
- Validate Theoretical Concepts.
- Analyze Structural Members
- Use Testing Equipment
- Interpret Experimental Data

Objectives of Fluid Mechanics Lab

- Understand Fluid Properties and Behavior
- Demonstrate Fluid Flow Principles
- Develop Measurement Skills
- Analyze Hydraulic Systems
- Understand Jet and Turbine Dynamics

Course outcomes:

CO Number	CO Description	K-level
CO-1	Determine compressive strength of concrete.	K-2
CO-2	Investigate Hook's law that is the proportional relation between force and stretching in elastic deformation.	K-3
CO-3	Compare Tension test, Impact test, Shear test, Bend test steel bar	K-4
CO-4	Percieve the broad principles of fluid statics, Kinematics and dynamics.	K-5
CO-5	Characterize laminar and turbulent flows	K-4
CO-6	Determine flow and flow properties.	K-4
Sl. No.	EXPERIMENT NAME	CO
Solid Mechanics Lab		
1.	Tension test	CO-3
2.	Bending tests on simply supported beam and Cantilever beam.	CO-3
3.	Compression test on concrete	CO-1
4.	Impact test	CO-3
5	Shear test	CO-3



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6	Investigation of Hook's law that is the proportional relation between force and stretching in elastic deformation,	CO-2
7	Bend test steel bar;	CO-3
8	Yield/tensile strength of steel bar;	CO-2
Sl. No.	EXPERIMENT NAME	CO
Fluid Mechanics Lab		
1		
2		
3		