

# Department of Mechanical Engineering

## Mechanics of Solids Laboratory

The objective of the strength of materials laboratory is to demonstrate the basics of strength and mechanics of materials and structural analysis to the undergraduate students through a series of experiments. In this laboratory the experiments are performed to measure the properties of the materials such as impact strength, tensile strength, compressive, torsional strength, bending, hardness, ductility, Lab is also enable with spring testing and column buckling demonstration equipment.

**Lab In-charge:** Dr. Harish Garg

**Technical Staff:** Mr. Hargopal Singh

**Name of Apparatus:**

- Computerized Universal Testing Machine Capacity 40T
- Universal Impact Testing Machine
- Rockwell Cum Brinell Hardness Tester
- Spring Testing Machine
- Torsion Testing Machine (50 kg.)
- Single & Double Shear Test Attachment
- Spring Deflection
- Column with diff. end condition equipment

**Apparatus:**



Impact Testing Machine



Torsion Testing Machine



Universal Testing Machine



Rockwell Cum Brinell Hardness Tester