

# **MECHANICAL ENGINEERING DEPARTMENT LAB MANUAL**

## **Material Testing Lab (Subject Code: KME 352)**

### **List of Experiments:**

#### **Objectives:**

- To understand the principles and performance characteristics different materials.
- To know about material properties.

1. Strength test of a given mild steel specimen on UTM with full details and stress versus strain plot on the machine.
2. Other tests such as shear, bend tests on UTM.
3. Impact test on impact testing machine like Charpy, Izod or both.
4. Hardness test of given specimen using Rockwell and Vickers/Brinell testing machines.
5. Spring index test on spring testing machine.
6. Fatigue test on fatigue testing machine.
7. Creep test on creep testing machine.
8. Experiment on deflection of beam, comparison of actual measurement of deflection with dial gauge to the calculated one, and or evaluation of young's modulus of beam.
9. Torsion test of a rod using torsion testing machine.
10. Study of NDT (non-destructive testing) methods like magnetic flaw detector, ultrasonic flaw detector, eddy current testing machine, dye penetrant tests.

**Course Outcomes:** The students who have undergone the course will be able to measure various properties of materials.

### **Experiment 1 (Tensile Test)**

**OBJECTIVE:** Strength test of a given mild steel specimen on UTM with full details and

# Material Testing Lab Manual For Mechanical Engineering

**Yicheng Fang**



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