# 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.
- 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.
- Impact test on impact testing machine like Charpy, Izod or both.
- Hardness test of given specimen using Rockwell and Vickers/Brinell testing machines.
- Spring index test on spring testing machine.
- 6. Fatigue test on fatigue testing machine.
- 7. Creep test on creep testing machine.
- 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)

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Scott C. Dulebohn

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