

**KME352 MATERIAL TESTING LAB**  
**LIST OF EXPERIMENTS**

1. Strength test of a given mild steel specimen on UTM with full details and stress versus strain plot on the machine.
2. Impact test on impact testing machine like Charpy, Izod or both.
3. Hardness test of given specimen using Rockwell and Vickers/Brinell testing machines.
4. Spring index test on spring testing machine.
5. Fatigue test on fatigue testing machine.
6. 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.
7. Torsion test of a rod using torsion testing machine.
8. Study of NDT (non-destructive testing) methods like magnetic flaw detector, ultrasonic flaw detector, eddy current testing machine, dye penetrant tests.

**BME352 MATERIAL TESTING LAB  
LIST OF EQUIPMENTS**

S No	Equipment Name
1	Impact test machine (Charpy, Izod)
2	Spring index test machine
3	Torsion testing machine
4	Universal Testing Machine
5	Hardness testing machines
6	Muffle furnace
7	Deflection of beam Machine
8	Pin on Disc machine
9	Profile projector
10	Microscope
11	Disc Polishing Machine
12	Fatigue test on fatigue testing machine