## STRENGTH OF MATERIALS LAB

3.Bending test on simple support beam. 4. Torsion test 5.Hardness test 6.Spring test 7. Compression test on wood or concrete 8.Impact test 9.Shear test 10. Verification of Maxwell's Reciprocal theorem on beams. 11.Use of electrical resistance strain gauges 12.Continuous beam – deflection test. **List of Major Equipment:** 1.UTM for conducting tension test on rods 2.Steel beam for flexure test 3. Wooden beam for flexure test 4. Torsion testing machine 5.Brinnell's / Rock well's hardness testing machine 6.Spring testing machine

7. Compression testing machine

8.Izod Impact machine

9. Shear testing machine

2.Bending test on (Steel / Wood) Cantilever beam.

1.Tension test

- 10.Beam setup for Maxwell's theorem verification.
- 11.Continuous beam setup
- 12.Electrical Resistance gauges.