

<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>0</b>	<b>0</b>	<b>3</b>	<b>1.5</b>

**STRENGTH OF MATERIALS LAB**

**Internal marks : 40**

**COURSE CODE: P18CEL02**

**External marks :60**

**List of Experiments**

1. Tension test on Steel bar
2. Bending test on simple support beam.
3. Torsion test
4. Hardness test
5. Spring test
6. Compression test on wood or concrete
7. Impact test
8. Shear test
9. Verification of Maxwell's Reciprocal theorem on beams.
10. Use of Electrical resistance strain gauges
11. 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. Setup for spring tests
7. Compression testing machine
8. Izod Impact machine
9. Shear testing machine
10. Beam setup for Maxwell's theorem verification.
11. Continuous beam setup electrical Resistance gauges.

**Note: Any 10 Experiments must be completed.**

