

Material Strength Laboratory

Course Code: 28701
Credits: 1
Course Type: Practical
Prerequisites: -
Corequisite: Strength of Materials II
Course Length: 34 hours

Outlines:

1. Hook's Law, Deflection of Cantilever and Simply Supported Beams and Betti-Maxwell's Reciprocity Theorem.
2. Bending Moment and Shearing Force in Beams
3. Hardness and Impact in different Temperature
4. Introduction to Strain Gauges
5. Uniaxial Tension
6. Column Buckling
7. Plastic Torsion in different Materials
8. Fatigue in Beams
9. Leaf and Coil Springs Behavior
10. Stress Distribution in an Angle Under Eccentric Loading