

Strenght of Materials Lab

Objective: In this lab the experiments are performed to measure the properties of the materials such as Impact strength, Tensile & Compressive strength, Hardness, Stiffness etc.



Sections Handled: B.Tech Civil and Mechanical II-A, II-B, Diploma Civil, Mechanical

Major Equipment Details:

Sl.No	Equipment Name	Qty
1.	Electronic Universal Testing Machine(Capacity- 100 Tons)	1
2.	Electronic Compression Testing Machine(Capacity-200 Tons)	1
3.	Torsion Testing Machine	1
4.	Brinnell's Hardness Testing Machine	1
5.	Rock Well cum Rock Well Superficial Hardness Testing Machine	1
6.	Spring Testing Machine (Compression And Tension)	1
7.	Impact Testing Machine	1
8.	Dial Gauges With Magnetic Stands& Digital Vernier Callipers	1

Faculty In charge with qualification : K.Vamsi Krishna -M.Tech

Lab Technical name with qualification: B.Siva Rama Krishna-D.C.E

Experiment list as per curriculum:

- 1.Bending test on (Steel / Wood) Cantilever beam
- 2.Bending test on simple support beam
- 3.Hardness Test
- 4.Spring test
- 5.Verification of Maxwell's Reciprocal theorem on beams

6. Shear test 7. Tension test on Steel bar 8. Compression test on concrete 9. Impact Test 10. Continuous beam – deflection test
Experiment list beyond the curriculum
1.