



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

II Year - I Semester		L	T	P	C
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STRENGTH OF MATERIALS LAB					

Experiments

1. Tension test on Mild steelbar
2. Bending test on (Steel / Wood) Cantileverbeam.
3. Bending test on simply supportedbeam.
4. Torsiontest
5. Hardnesstest
6. Spring test
7. Compression test on wood orconcrete
8. Impacttest (Charpy and Izod impact test)
9. Sheartest (on UTM)
10. Verification of Maxwell's Reciprocal theorem onbeams.
11. Use of Electrical resistance straingauges
12. Continuous beam – deflection test.

List of Major Equipment:

1. Universal Testing Machine
2. Torsion testingmachine
3. Brinnell's / Rock well's hardness testingmachine
4. Setup for springtests
5. Compression testingmachine
6. Izod Impactmachine
7. Shear testingmachine
8. Beam setup for Maxwell's theoremverification.
9. Electrical Resistance gauges