

II Year I Semester
Code: 17CE311

L T P C
0 0 3 2

STRENGTH OF MATERIALS LAB

List of Experiments

1. Tension test on Steel bar
2. Bending test on (Steel / Wood) Cantilever beam.
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. 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. Brinell'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. Continuous beam setup

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	-	1	-	2	-	-	-	-	-	2	-	3	2
CO2	3	1	-	1	-	2	-	-	-	-	-	2	-	3	2
CO3	3	1	-	1	1	-	-	-	-	-	-	2	-	3	2
CO4	3	1	-	1	1	2	-	-	-	-	-	2	-	3	2
CO5	3	1	-	1	1	2	-	-	-	-	-	2	-	3	2
CO6	3	1	-	1	1	2	-	-	-	-	-	2	-	3	2