



Bharati Vidyapeeth (Deemed to be University)

College of Engineering, Pune.

Department of Civil Engineering



Testing of Materials Laboratory

List of Experiment

Sr. No.	List of Experiment
Mechanics of Solids	
1.	Tension test on mild steel
2.	Tension test on tor steel
3.	Direct Shear (Single & Double) test on mild steel
4.	Bending test on timber
5.	Torsion test on mild steel
6.	Impact tests (Izod & Charpy) - Mild Steel, Aluminium, Brass, Copper
7.	Hardness test (Rockwell)- mild steel, aluminium, brass copper
8.	Compressive Strength of brick
9.	Construction of Mohr's Circle for calculation of principal stresses.
10.	Development of an excel sheet for calculation of stresses at a point in cross section for given loadings.
11.	Development of an excel sheet for calculation of principal stress at a point.
Concrete Technology	
1.	Test on Aggregate (Minimum 4)
2.	Moisture content, Water Absorption
3.	Specific Gravity of Aggregate
4.	Fineness Modulus of Aggregate
5.	Aggregate Impact Test
6.	Aggregate Crushing Test
7.	Flakiness Index, Elongation Index
8.	Test on Cement (Minimum 3)
9.	Fineness of Cement
10.	Standard consistency and Setting time of Cement.
11.	Compressive strength of Cement
12.	Soundness of Cement
13.	Tests on Concrete (Minimum 3)
14.	Effect of admixture on workability of concrete
15.	Compressive Strength of Concrete
16.	Flexural strength of concrete

Size = 2' X 3 '

Qty = 1



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List of Equipment

Sr. No.	Name of Equipment
1.	Proving Ring-2000kN Capacity
2.	Beam Mould-15x15x70cm
3.	Electronic Weighing Balance-100kg
4.	Standard Test Sieves-200mm dia.
5.	Standard Test Sieves-300mm dia.
6.	Standard Test Sieves-90 Micron
7.	Flow Table for concrete
8.	Rockwell Hardees Machine
9.	Compression Testing Machine-2000kN
10.	Proving Ring-1000kN Capacity
11.	Torsion Test Machine-500N.m
12.	Concrete Rebound Test Hammer
13.	Cylindrical Mould- dia. 15cm x 30cm
14.	Cube Moulds-70.6x70.6x70.6mm
15.	Slump Test Apparatus
16.	Hot Air Oven-45x45x45cm
17.	Electronic Weighing Balance-15 Kg
18.	Aggregate Crushing Value Apparatus
19.	Length Gauge Apparatus
20.	Thickness Gauge Apparatus
21.	Sieve Shaker Motorized
22.	Le Chatelier Mould
23.	Vicat Apparatus
24.	Shear Test Attachment
25.	Universal Testing Machine (100T)
26.	Concrete Mixer
27.	Aggregate Impact Testing Machine
28.	Compaction Factor Apparatus
29.	Tile Abrasion Testing Machine
30.	Impact Testing Machine (Izod & Charpy)
31.	Torsion Testing Machine
32.	Tile Flexure Testing Machine
33.	Weighing Platform Machine
34.	Vernier Calliper
35.	Timber Testing Machine
36.	Vibrating Table for Concrete mould

Size = 2' X 3'

Qty = 1