

Concrete Technology Lab

Objective: Preparation of samples of structural concrete to test and analyze its behavior and strength characteristic by various tests



Sections Handled: B.tech II Diploma Civil

Major Equipment Details:

Sl.No	Equipment Name	Qty
1	Standard set of sieves for Coarse and Fine Aggregate	1
2	Vicat's Apparatus	4
3	Specific Gravity Bottle	4
4	Lechatlier's Apparatus	6
5	Compaction factor Test Apparatus	1
6	Vee-Bee Consistometer Test Apparatus	1
7	Slump Cone Test Apparatus	1
8	Pyconometer	1
9	Wire Basket	1
10	Rebound Hammer	1

Minor Equipments: Gauging Trowel, Tamping rod, Stop Watch, Curing Tank, Weigh balance, Graduated Glass Cylinders, Moulds- Cubes & Cylinders

Faculty In charge with qualification : V.Narasimha Rao-M.Tech

Lab Technical name with qualification: K.Vinay Kumar - B.Tech

Experiment list as per curriculum:

1. Determination of normal consistency & fineness of Cement
2. Determination of initial & final setting time of Cement
3. Determination of Specific gravity & Soundness of Cement
4. Determination of Compressive Strength of Cement
5. Determination of grading & fineness modulus of Coarse aggregate
6. Determination of Specific gravity of Coarse aggregate
7. Determination of grading and fineness modulus of fine aggregate
8. Determination of Bulking of sand
9. Determination of Workability of Concrete by Compaction factor method
10. Determination of Workability of concrete by Slump Cone Test
11. Determination of Workability of concrete by Vee-bee Consistometer
12. Determination of Compressive Strength of Concrete & its Young's modulus
13. Determination of Split Tensile Strength of Concrete
14. Non-Destructive Testing on Concrete