

Concrete Technology Lab

Lab In charge: Mr. J. D. Chaitanya Kumar

Concrete Technology Laboratory provides facilities to conduct all quality control tests on cement, aggregates (Fine and Coarse) and concrete (Fresh and hardened). Students learn the standard procedure to test the quality of building materials in line with the corresponding IS codes. The lab has equipment for conducting non-destructive tests on concrete to verify quality in the post-construction phases. In addition to meeting the curriculum and consultancy requirements, the equipment in the laboratory are extensively utilized for projects by students of UG, PG, Ph.D and by faculty for their research work.

Lab Experiments	
Sl. No.	Title
1	To determine the Specific gravity of cement.
2	To determine the initial and final setting time of cement with Vicat's apparatus.
3	To determine the normal consistency of cement with Vicat's apparatus.
4	To determine the fineness modulus of fine aggregates.
5	To determine the fineness modulus of Coarse aggregates.
6	To determine the flakiness index and elongation index of the given aggregate.
7	To determine the bulk density, Specific gravity, Void ratio and Porosity of fine/coarse aggregates.
8	Workability of concrete by slump cone apparatus.
9	Workability of concrete by compaction factor apparatus.
10	To find the compressive strength of concrete cubes, Brick, AAC Block.
11	To determine the split tensile strength of concrete.
12	To determine the modulus of rupture of concrete beam specimens.

Major Equipment's



