

B.Tech II Year II Semester

Course Structure

L	T	P	C
0	0	3	1.5

CONCRETE TECHNOLOGY LAB

Course code: P18CEL05

Internal marks : 40

External marks : 60

List of Experiments

1. Determination of normal Consistency and fineness of cement.
2. Determination of initial setting time and final setting time of cement.
3. Determination of specific gravity and soundness of cement.
4. Determination of compressive strength of cement.
5. Determination of grading and fineness modulus of Coarse aggregate by sieve analysis.
6. Determination of specific gravity of coarse aggregate
7. Determination of grading and fineness modulus of fine aggregate (sand) by sieve analysis.
8. Determination of bulking of sand.
9. Determination of workability of concrete by compaction factor method.
10. Determination of workability of concrete by slump test
11. Determination of compressive strength of cement concrete and its young's modulus.
12. Determination of split tensile strength of concrete.

List of Equipment:

1. Standard set of sieves for coarse aggregate and fine aggregate
2. Vicat's apparatus
3. Specific gravity bottle.
4. Lechatlier's apparatus.
5. Slump Test Apparatus.
6. Compaction Factor Test Apparatus.
7. Universal testing Machine (UTM)/Compression Testing Machine(CTM).

Note : Any 10 experiments must be completed

