4CE111 Cement Concrete Lab.

L-T-P-Cr: 0-0-3-1

Practical: 1. Laboratory testing of cement –soundness test, consistency test, initial and final setting time compressive strength test, specific gravity

2. Laboratory testing of sand –sieve analysis, specific gravity

3. Laboratory testing of course aggregate –sieve analysis, specific gravity

4. Test of Bricks –Water absorption, Compressive strength , efflorescence

5. ix proportioning calculations for different working conditions

6. Mix proportioning calculations for different grades.

7. Workability test: Slump and Compaction factor test with & without admixture

8. Compressive strength test for cubes

Text Books/IS-Codes: 1. IS-10262-2009 Code of Practice for Mix Proportioning 2. IS-456-2000 Code of Practice for Plain and Reinforced Concrete.