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31055 CONSTRUCTION PRACTICE LAB

DETAILED SYLLABUS

OBJECTIVES

On completion of the course, the student will be familiar

- To Prepare centre line plan and foundation plan for a building.
- For Setting out foundation in the field for spread footing and column footing for a building.
- To determine the Workability of concrete by Compacting factor, slump cone test and Vee – Bee consistometer test.
- To cast Concrete cubes and to test for compressive strength.
- To determine the fineness Modulus of fine and coarse aggregate.
- For Shape test on coarse aggregate.
- To determine the bulking characteristics of the given sand.
- For Non Destructive test on hardened concrete.

LIST OF EXPERIMENTS

PART A

- 1. Prepare and develop a centre line plan, foundation Plan and set out spread footing in the field for the given line sketch of a building.
- 2. Prepare and develop a centre line plan, foundation Plan and set out the layout of columns and footing in the field for the given line sketch of a building (Framed structure).
- 3. Arrangement of bricks using English bond for one brick thick wall and one and half brick thick wall for right angled corner junction.
- 4. Arrangement of bricks using English Bond for one brick thick wall, one and half brick thick wall for Tee junction.
- 5. Arrangement of bricks using English bond for one brick thick, one and half and two brick thick square pillars.
- 6. Cutting, hooking, cranking and arrangement of reinforcement for:
 - a. Beam
 - b. Lintel and sunshade
 - c. Column and footing

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PART B

- 1. Determination of workability of concrete by slump cone test.
- 2. Determination of workability of concrete by compaction factor test.
- 3. Casting of concrete cube and compression test on concrete cube.
- 4. Determination of Fineness Modulus of fine aggregate sample and plot a particle size distribution curve and also find the effective size and uniformity co-efficient.
- 5. Determination of Fineness Modulus of coarse aggregate sample and plot a particle size distribution curve and also find the effective size and uniformity co-efficient.
- 6. Vee- Bee Consistometer Test on concrete.
- 7. Non Destructive Test on concrete Rebound Hammer Test.
- 8. Determination of bulking characteristics of the given sand sample.
- 9. Shape Test for Coarse aggregate.
 - a. Flakiness Index test
 - b. Elongation Index test
 - c. Angularity number test