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# CE8311 CONSTRUCTION MATERIALS LABORATORY

#### DETAILED SYLLABUS

### **OBJECTIVE:**

• To facilitate the understanding of the behavior of construction materials.

# **I. TEST ON FINE AGGREGATES**

- 1. Grading of fine aggregates
- 2. Test for specific gravity and test for bulk density
- 3. Compacted and loose bulk density of fine aggregate

### **II. TEST ON COARSE AGGREGATE**

- 1. Determination of impact value of coarse aggregate
- 2. Determination of elongation index
- 3. Determination of flakiness index
- 4. Determination of aggregate crushing value of coarse aggregate

# **III. TEST ON CONCRETE**

- 1. Test for Slump
- 2. Test for Compaction factor
- 3. Test for Compressive strength Cube & Cylinder
- 4. Test for Flexural strength

# IV. TEST ON BRICKS AND BLOCKS

- 1. Test for compressive strength of bricks and blocks
- 2. Test for Water absorption of bricks and blocks
- 3. Determination of Efflorescence of bricks
- 4. Test on tiles

### **REFERENCES:**

1. Construction Materials Laboratory Manual, Anna University, Chennai-600 025.

2. IS 4031 (Part 1) - 1996 - Indian Standard Method for determination of fineness by drysieving.

3. IS 2386 (Part 1 to Part 6) - 1963 - Indian Standard methods for test for aggregate for concrete