Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
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31045- MATERIAL TESTING LAB II

DETAILED SYLLABUS

OBJECTIVES

On completion of the course, the student will be familiar with

- Test on properties of fine aggregate and coarse aggregate.
- Test on properties of soil.
- Analysis the properties of water/waste water

LIST OF EXPERIMENTS

PART A

- 1. Determination of Voids ratio and porosity of sand.
- 2. Determination of liquid limit and plastic limit of the given soil.
- 3. Determination of bulk density and specific gravity of Fine aggregates.
- 4. Determination of bulk density and specific gravity of Coarse aggregates.
- 5. Proctor's compaction test on clay.
- 6. Direct shear test on sand.
- 7. Field Density of Soil by core cutter method / sand replacement method.

PART B

- 1. Attrition test on Aggregate.
- 2. Abrasion test on Aggregate.
- 3. Aggregate crushing value test.
- 4. Aggregate impact value test.

PART C

- 1. Determination of Total solids present in the given sample of water.
- 2. Determination of Turbidity of water by "Jackson candle turbidity meter."
- Determination of settleable solids present in the given sample of water/ waste water by "Imhoff cone."
- 4. Determination of Water absorption of coarse aggregate.