

# Geotechnical Engineering Lab

## List of Experiments

- Determination of water content by oven drying method.
- Determination of specific gravity by
  - a) Density bottle method
  - b) Pycnometer method.
- Gradation analysis
  - a) Mechanical Sieve analysis
  - b) Hydrometer analysis.
- Determination of Atterberg limits
- Determination of free swell index
- Determination of field unit weight by
  - a) Core cutter method.
  - b) Sand replacement method.
- Determination of permeability by
  - a) Constant head permeameter.
  - b) Variable head permeameter.
- Direct shear test.
- Vane shear test.
- Unconfined compression test
- IS - Light compaction test
- IS - Heavy compaction test
- Triaxial shear test.
- Consolidation test.
- California bearing ratio test.