INSTITUTE OF MANAGEMENT & TECHNOLOGY

INNOVATION • MOTIVATION • TRANSFORMATION

GEOTECHNICAL ENGINEERING LAB (P-25002)

1) To determine the moisture content of a given sample of soil.
2) Auger Boring and Standard Penetration Test:
   a. Identifying the equipment and accessories
   b. Conducting boring and SPT at a given location
   c. Collecting soil samples and their identification
   d. Preparation of boring log and SPT graphs
   e. Interpretation of test results
3) Extraction of Disturbed and Undisturbed Samples Extracting a block sample:
   a. Extracting a tube sample
   b. Extracting disturbed samples for mechanical analysis.
   c. Field identification of samples
4) Field Density Measurement (Sand Replacement and Core Cutter Method):
   a. Calibration of sand
   b. Conducting field density test at a given location
   c. Determination of water content
   d. Computation and interpretation of results
5) Liquid Limit and Plastic Limit Determination:
   a. Identifying various grooving tools
   b. Preparation of sample
   c. Conducting the test
   d. Observing soil behavior during tests
   e. Computation, plotting and interpretation of results

Department of Civil Engineering