



MATERIAL ENGINEERING LAB

Experiments:

- Sieve Analysis of fine and coarse aggregates
- Slump test for Fresh Concrete
- Making and Curing Concrete Test Specimens in the Laboratory
- Compressive Strength of Cubic Concrete Specimens
- Compressive Strength of Cylindrical Concrete Specimens
- Rebound Number of Hardened Concrete
- Steel Tensile Test
- Steel Torsion Test
- Column Buckling Test

The lab session is designed to give the students hands-on experience with the equipment, methods, and procedures of materials testing. This lab deals with material testing, in order to give some help in acquiring the overall picture for civil engineering materials behavior and property under testing. For each test a brief treatment of the fundamentals included is well understood. The practical issue of each test will be fully discussed to yield the goal of this lab at high level of standards.

MAJOR EQUIPMENT:

- Concrete Mixing Machine
- Compression Testing Machine
- Tensile Testing Machine
- Hydraulic Universal Testing Machine
- Torsion Testing Machine
- Slump Cone

