Mechanical Properties of Soil

Code	Credit Hours
CE- 824	3+0

Course Description

To equip the students with the knowhow of soil properties with emphasis on conceptual understanding of soil textures, consistency, permeability, stress/strain behavior, shear strength and consolidation. The course focuses on the field/lab testing and preparation of report writing. To introduce students with basic concepts of critical state soil mechanics.

Textbook:

1. Holtz, R.D., Kovacs, W.D., (1981), An Introduction to Geotechnical Engineering, Prentice-Hall, New Jersey.
2. Reference Book:
3. Liu, C., Evett, J.B. (1997), Soil Properties: Testing, Measurement and Evaluation, Prentice Hall, New Jeresy.
4. ASTM, (2004), Annual Book of ASTM Standards, Sec 4, Vol 04.08, Soil and Rock.
5. Soil Behavior and Critical State Soil-Mechanics by David Muir Wood
6. Bowles, J.E. (1992), Engineering Properties of Soil and Their Measurement, McGraw-Hill Company.

Prerequisites

Nil

Assessment System for Theory

Quizzes	10-15%
Assignments	5-10%
Mid Terms	25-30%
Project	0-10%
ESE	45-50%