

COURSE CODE: **CEGEOEN**

COURSE TITLE: **Geotechnical Engineering**

DEPARTMENT: Civil Engineering

TEXTBOOKS:

Principles of Geotechnical Engineering by Braja Das

Soil Mechanics and Foundations by Muni Budhu

READING LIST:

- Soil's Weight-Volume Relationships
- Plasticity and Structure of Soil
- Soil Compaction
- Permeability (One-dimensional Flow of water through soils)
- Seepage (Two-Dimensional Flow of Water Through Soils)
- Stresses, Strains, and Elastic Deformation of Soils
- In situ stresses: Geostatic stresses
- In-situ stresses: Induced Stresses
- Shear Strength of Soils
- Consolidation of Soils
- Lateral Earth Pressure