

- Soil formation and characterization
- Soil phase relationships, index properties and classification
- Soil permeability and seepage
- Effective stress and pore water pressure
- Stress distribution in soils due to surface loads
- Compressibility and consolidation
- Shear strength of soil
- Soil exploration
- Stability of slopes
- Lateral earth pressure
- Shallow foundations 1 - ultimate bearing capacity
- Shallow foundations 2 - safe bearing pressure and settlement calculation
- Shallow combined