CVE412 Foundation Engineering (2 Units)

Department of Civil Engineering

Covenant University
1. CVE412
1.1. CVE412 Foundation Engineering (2 Units)

Soil Mineralogy; Stresses in soils due to external loads; Lateral Earth Pressure: Rankine and Coulomb theories; Earth retaining structures; Stability of slopes: infinite and finite slopes; Compaction and soil stabilization: Proctor and West African compaction methods, optimum moisture content, zavc, field and laboratory methods, compaction control and equipments; Bearing capacity: Shallow Foundations, Deep foundations: piles, drilled piers and caissons; Site investigations, and methods of subsurface exploration