CVE542 Advanced Foundation (Geotechnical Engineering II) (2 Units)

Department of Civil Engineering

Covenant University
1. CVE542

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Bearing capacity factors for shallow and deep foundations; Generalised bearing capacity factors: footing under eccentric and inclined loads; Design, type and choice of foundations for different soil conditions, negative skin friction, pile groups, efficiency of pile groups; Earth Pressure: Equilibrium theories of Rankine and Coulomb: Geotechnical Design of retaining structures; Analysis of slope stability including both theoretical and graphical solutions; Field measure of soil parameters.