CVE532 Special Topics in Geotechnical Engineering (2 Units)

Department of Civil Engineering

Covenant University
1. CVE532

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Geological processes: folding and faulting; geological map interpretation; mineral types and engineering properties; Rock types and mechanics: engineering uses of rock; Principles of analysis and design for earth and rock tunnels: materials, construction methods, stability and support systems, deformations and performance monitoring; Design of earth dams, earth reinforcement and geo-environmental structures; Choice and design of foundation; Subsurface investigation and measurement of soil in-situ properties.