BLD412: Design of Reinforced Concrete Structures II (2 Units)

Department of Building Technology

Covenant University
1. BLD412
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Design and Detailing of columns subject to Moments including Biaxial Bending; Slender columns; Designs of Plain and Reinforced Concrete Walls; Design and Detailing of Ribbed/Waffle Slabs (solid or hollow blocks or voids), flat slabs; Design and Detailing of foundations; Pad (axially and concentrically loaded); Wall, strip and combined Raft, Pile, Retaining walls (gravity, Counter fort and Cantilever); Design and Detailing of water retaining and precast concrete structures (swimming pools, underground, surface, and elevated tanks); Torsion in Reinforced concrete. Introduction to the design of pre-stressed concrete structures.

Term Projects: (1) Complete Design and Detailing of a Multi-Storey. Reinforced concrete framed building (including design for ties).

Design and Detailing of a water-retaining structure.