

University of Pretoria Yearbook 2021

Building science 210 (BWT 210)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module credits 12.00

NQF Level 06

Programmes [BSc Construction Management](#)

[BSc Quantity Surveying](#)

[BSc Real Estate](#)

Prerequisites BWT 110 and BWT 120

Contact time 3 lectures per week

Language of tuition Module is presented in English

Department Construction Economics

Period of presentation Semester 1

Module content

Advanced application of construction technology for the erection of multi-storey, steel reinforced concrete structures as well as steel portal frame construction. Bulk excavations for the creation of deep basements including lateral support through piling systems and other retaining wall structures to prevent embankment failure. Introduction to construction management principles and the effect thereof on the construction process in terms of time, cost and quality. Management of temporary site works, applying formwork design principles, building equipment and earth moving machinery required in advanced construction technology.

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