

University of Pretoria Yearbook 2021

Theory of structures 311 (STU 311)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 07

Programmes [BSc Architecture](#)

Prerequisites STU 211 and STU 221

Contact time 3 lectures per week

Language of tuition Module is presented in English

Department Civil Engineering

Period of presentation Semester 1

Module content

1. Concrete Structures.

- Loads on concrete structures, Limit-states design principles.
- Bending, shear and punching: Design of beams, slabs and footings.
- Compression members: Design of columns.

2. Load bearing brickwork.

- Limit-states design principles. Effective length and width of compression members.

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