University of Pretoria Yearbook 2017

Theory of structures 311 (STU 311)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	8.00
Programmes	BSc Architecture
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	STU 211 and STU 221
Contact time	3 lectures per week
Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Civil Eng
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.