

University of Pretoria Yearbook 2022

Theory of structures 123 (STU 123)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	6.00
NQF Level	05
Programmes	BSc (Architecture)
Prerequisites	No prerequisites.
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Architecture
Period of presentation	Semester 2

Module content

The theory of structures in architectural applications: Types of structures in architecture; Centre of mass and centre of rigidity – wall arrangements; Stresses and materials; Forces and their applications on trusses and cables, FBD; Equilibrium of equations; Force problems; Introduction to flexural members, determinate beams; Moments, axial and shear forces diagrams.

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