

University of Pretoria Yearbook 2016

Theory of structures 321 (STU 321)

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 311 GS

Contact time 3 lectures per week

Language of tuition Both Afr and Eng

Academic organisation Civil Eng

Period of presentation Semester 2

Module content

- 1. Timber structures
- Loads on typical timber structures, Limit-states design principles
- Bending, shear and deflection: Design of flexural members without and with axial loads
- Tension members: Tension members in roof trusses
- Compression members: Design of compression members in trusses and as support members for trusses
- Bracing systems
- 2. Steel Structures
- Loads on typical steel structures, Limit-states design principles
- Bending, shear and deflection: Design of flexural members without and with axial loads
- Tension members: Tension members in roof trusses
- Compression members: Design of compression members in trusses and as support members for trusses
- · Bracing systems

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