



University of Pretoria Yearbook 2018

Theory of structures 321 (STU 321)

Qualification Undergraduate

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

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

Module credits 8.00

Programmes [BSc Architecture](#)

Prerequisites STU 311 GS

Contact time 3 lectures per week

Language of tuition Module is presented in English

Department Civil Engineering

Period of presentation Semester 2

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