

University of Pretoria Yearbook 2016

Structural analysis 790 (SIN 790)

Qualification Postgraduate

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

Module credits 24.00

Prerequisites No prerequisites.

Contact time 40 Contact hours

Language of tuition English

Academic organisation Civil Eng

Period of presentation Year

Module content

A research term paper will be prepared.

Stiffness and flexibility methods for plane, grid and three-dimensional structures. In-plane stability of beam-columns and frames; effective lengths and lateral torsional instability of beams. Dynamics: free and forced, undamped and damped framed systems and mass matrices and natural frequencies.

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