

# University of Pretoria Yearbook 2021

## Structural analysis 790 (SIN 790)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	24.00
<b>NQF Level</b>	08
<b>Programmes</b>	<a href="#">BEngHons Structural Engineering</a>
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	40 Contact hours
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Civil Engineering
<b>Period of presentation</b>	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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