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# University of Pretoria Yearbook 2021

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## Structural analysis 311 (SIN 311)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	8.00
<b>NQF Level</b>	07
<b>Programmes</b>	<a href="#">BEng Civil Engineering</a> <a href="#">BEng Civil Engineering ENGAGE</a>
<b>Prerequisites</b>	SIN 223
<b>Contact time</b>	1 practical per week, 1 tutorial per week, 2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Civil Engineering
<b>Period of presentation</b>	Semester 1

### Module content

Analysis of symmetrical structures using slope-deflection equations or moment-distribution; three dimensional structures and grillages; matrix methods; influence lines. Euler buckling of columns with different boundary conditions.

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