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# University of Pretoria Yearbook 2022

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## Steel design 411 (SIN 411)

<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>	08
<b>Programmes</b>	<a href="#">BEng (Civil Engineering)</a> <a href="#">BEng (Civil Engineering) ENGAGE</a>
<b>Prerequisites</b>	(SIN 323)
<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 and design composite steel beam and concrete slab construction, Moment connections, Elastic and plastic design of portal, industrial and building structures.

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