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# University of Pretoria Yearbook 2017

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## Steel design 411 (SIN 411)

**Qualification** Undergraduate

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

**Module credits** 8.00

**Programmes** [BEng Civil Engineering](#)  
[BEng Civil Engineering ENGAGE](#)

**Prerequisites** (SIN 323)

**Language of tuition** Separate classes for Afrikaans and English

**Academic organisation** Civil Eng

**Period of presentation** 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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