

# University of Pretoria Yearbook 2017

## Structural steel 415 (SIN 415)

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| <b>Qualification</b>          | Undergraduate  |
| <b>Faculty</b>                | <a href="#">Faculty of Engineering, Built Environment and Information Technology</a> |
| <b>Module credits</b>         | 16.00  |
| <b>Prerequisites</b>          | (SIN 323) (SIN 325)  |
| <b>Contact time</b>           | 4 lectures per week, 1 practical per week, 1 tutorial per week                       |
| <b>Language of tuition</b>    | Separate classes for Afrikaans and English   |
| <b>Academic organisation</b>  | Civil Eng  |
| <b>Period of presentation</b> | Semester 1   |

### Module content

Stability of beams. Material properties. Analysis and limit states design of tension, compression and flexural members, and beam-columns. Design of trusses, simple framed structures and connections. 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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