

# University of Pretoria Yearbook 2016

## Reinforced concrete design 413 (SIN 413)

**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 324)

**Language of tuition** Both Afr and Eng

**Academic organisation** Civil Eng

**Period of presentation** Semester 1

### Module content

Behaviour and design of beams, slabs (solid, ribbed and waffle slabs, flat plates and flat slabs), columns (slender columns and biaxial bending), footings (simple and combined footings) and stairs. Introduction to the design of prestressed concrete flexural members.

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