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# University of Pretoria Yearbook 2018

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## Reinforced concrete design 413 (SIN 413)

**Qualification** Undergraduate

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

**Module credits** 8.00

**Prerequisites** (SIN 324)

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

**Department** Civil Engineering

**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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