

# University of Pretoria Yearbook 2016

## Reinforced concrete design 324 (SIN 324)

**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 311 GS

**Language of tuition** Both Afr and Eng

**Academic organisation** Civil Eng

**Period of presentation** Semester 2

### Module content

Properties of reinforced concrete. Principles of limit states design. Analysis and design of sections in flexure and in compression combined with flexure. Design for shear and torsion. Bond and anchorage. Serviceability requirements: Detailing and span-effective depth ratios. Design of footings and short columns.

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