

University of Pretoria Yearbook 2017

Reinforced concrete design 324 (SIN 324)

Qualification Undergraduate

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

Module credits 8.00

Prerequisites SIN 311 GS

Language of tuition Separate classes for Afrikaans and English

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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