

University of Pretoria Yearbook 2021

Reinforced concrete design 324 (SIN 324)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	8.00
NQF Level	07
Programmes	BEng Civil Engineering BEng Civil Engineering ENGAGE
Prerequisites	SIN 311 GS
Contact time	1 practical per week, 1 tutorial per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Civil Engineering
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. Simple footings and stairs.

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