

University of Pretoria Yearbook 2016

Basic structural design 793 (SIC 793)

Oualification Postgraduate **Faculty** Faculty of Engineering, Built Environment and Information Technology Module credits 24.00 **Programmes BScHons Applied Science Applied Science: Structures** BScHons Applied Science Applied Science: Water Resources **Prerequisites** No prerequisites. **Contact time** 40 Contact hours Language of tuition **English** Academic organisation Civil Eng

Module content

Period of presentation Year

This course comprises two sections: reinforced concrete design and structural steel design. Reinforced concrete design covers the design of beams; behaviour and design of slabs; design of slender columns and columns subjected to bi-axial bending; design of simple and combined footings; staircase design; and an introduction to prestressed concrete. Structural steel design covers the characteristics of steel; design of structural steel members including elements in bending, and bending combined with tension and compression; design of portal frames; composite construction and the bending resistance of composite sections; and plastic design.

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