

University of Pretoria Yearbook 2017

Design of welded structures 701 (NWP 701)

Qualification Postgraduate

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

Module credits 30.00

Programmes [BEngHons Metallurgical Engineering](#)

[BEngHons Welding Engineering](#)

[BScHons Applied Science Metallurgy: Welding Technology](#)

[BScHons Applied Science Metallurgy](#)

Prerequisites No prerequisites.

Contact time 48 contact hours per semester

Language of tuition Module is presented in English

Academic organisation Materials Science and Metallur

Period of presentation Year

Module content

This module examines welded joint design, the basics of weld design and the role of fracture mechanics in joint design. The behaviour of welded structures under different types of loading are considered, with special focus on the design of welded structures with predominantly static loading and the design of dynamically loaded welded structures. The design of welded pressure equipment, aluminium alloy structures and reinforcing-steel welded joints is considered.

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