



University of Pretoria Yearbook 2016

Design of welded structures 701 (NWP 701)

Qualification	Postgraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	32.00
Programmes	BEngHons Metallurgical Engineering BScHons Applied Science Applied Science: Metallurgy
Prerequisites	No prerequisites.
Contact time	48 contact hours per semester
Language of tuition	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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