

University of Pretoria Yearbook 2016

Welding processes 700 (NWP 700)

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 arc physics, electrotechnics as applied to weld power sources, and power source design. The fundamental principles, applications, consumables and process variables of various arc welding processes, oxy-gas welding techniques, resistance welding processes, power beam processes and solid-state welding techniques are considered. Brazing and soldering, cutting, surfacing and metal spraying techniques are discussed. The module also looks at the welding of plastics, ceramics and composites, and at the mechanisation and use of robotics in the welding and joining industries. Practical training is included in this module.

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