

## University of Pretoria Yearbook 2016

## Metals processing and welding 410 (NPW 410)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
Prerequisites	(NMC 312) and (NMM 320)
Contact time	2 practicals per week, 4 lectures per week
Language of tuition	English
Academic organisation	Materials Science and Metallur
Period of presentation	Semester 1

## Module content

Liquid metal processing. Sheet metal processing. Welding processes. Surface processing and hard facing. Processing for fatigue resistance; fatigue of welded structures. Soldering and brazing. Metallurgy of welding and the heat-affected zone. Welding of carbon steels, cast irons and non-ferrous alloys. Metallurgy and welding of stainless steels. Welding codes, specifications, quality assurance.

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