

University of Pretoria Yearbook 2017

Metals processing 411 (NPW 411)

Qualification Undergraduate

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

Module credits 16.00

Programmes [BEng Metallurgical Engineering](#)
[BEng Metallurgical Engineering ENGAGE](#)

Prerequisites (NMC 313), (NMM 320)

Contact time 3 lectures per week, 2 practicals per week

Language of tuition Module is presented in English

Academic organisation Materials Science and Metallur

Period of presentation Semester 1

Module content

Introduction to welding and joining processes. Welding of carbon steels, stainless steels, aluminium and aluminium alloys. Development and qualification of welding procedure specifications. Liquid metal processing (casting processes, solidification of castings and mould design). Deformation processing (forging, extrusion and rolling), sheet metal processing and surface processing. The identification and prevention of defects.

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