

University of Pretoria Yearbook 2022

Corrosion 410 (NKR 410)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	08
Programmes	BEng (Metallurgical Engineering) BEng (Metallurgical Engineering) ENGAGE
Prerequisites	No prerequisites.
Contact time	3 lectures per week, 3 practicals per week
Language of tuition	Module is presented in English
Department	Materials Science and Metallurgical Engineering
Period of presentation	Semester 1

Module content

Thermodynamics and kinetics of electrochemical processes relevant to corrosion. Application of electrochemical techniques in corrosion. Theory and practice of corrosion phenomena such as uniform and localised forms of corrosion including crevice and pit corrosion, dealloying, sensitisation and environmentally assisted cracking. Mitigation of corrosion through materials selection, modification of the environment, and by the application of cathodic and anodic protection, and protective coatings.

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