University of Pretoria Yearbook 2016

Hydrometallurgy 412 (NHM 412)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
Programmes	BEng Metallurgical Engineering
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Prerequisites	(NHM 322)
Contact time	3 lectures per week, 2 tutorials per week
Language of tuition	English
Academic organisation	Materials Science and Metallur
Period of presentation	Semester 1

Module content

Extraction routes and the extractive metallurgy of metals such as gold, copper, zinc, manganese, nickel, cobalt, uranium and the platinum group elements, from ores and secondary sources. Application of thermodynamics and reaction kinetics (including laboratory kinetic data) in understanding and optimisation of extraction routes, and sizing of reactors. Environmental impact of processing routes.