

University of Pretoria Yearbook 2017

Refractory materials 321 (NVM 321)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	8.00
Programmes	BEng Metallurgical Engineering
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Prerequisites	(NPT 220) and NPM 321 #
Contact time	2 lectures per week, 1 tutorial per week
Language of tuition	Module is presented in English
Academic organisation	Materials Science and Metallur
Period of presentation	Semester 2

Module content

Classification, requirements and properties of refractory materials. Manufacturing principles. Specification and testing of refractory materials. The main refractory systems, i.e silica, aluminosilicates, alumina, magnesia, magnesia-chrome, magnesia-carbon, doloma, zircon, zirconia, silicon carbide and graphite, and their applications. Principles of ternary phase diagrams and their application in refractory systems, and interactions between slag, metal and refractory materials.

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