



University of Pretoria Yearbook 2022

Advanced explosive engineering 785 (PRX 785)

Qualification	Postgraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	08
Programmes	BEngHons Mining Engineering
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	Mining Engineering
Period of presentation	Semester 1 or Semester 2

Module content

Types of commercial explosives. Properties of explosives. Explosive initiating systems, application of explosives in rock breaking; Surface and underground blast designs and specialised blast designs; the effects of geology on blast results. Fragmentation, blasting and environmental control. Blast assessment. Ethics and regulatory compliance. Safety in blasting.

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