

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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