

# University of Pretoria Yearbook 2016

## Advanced explosive engineering 785 (PRX 785)

**Qualification** Postgraduate

**Faculty** [Faculty of Engineering, Built Environment and Information Technology](#)

**Module credits** 16.00

**Programmes** [BEngHons Mining Engineering](#)

**Prerequisites** No prerequisites.

**Contact time** Self study

**Language of tuition** English

**Academic organisation** 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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