

# University of Pretoria Yearbook 2018

## Explosives engineering 701 (PRX 701)

**Qualification** Postgraduate

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

**Module credits** 16.00

**Programmes** [BScHons Applied Science Mining](#)

**Prerequisites** No prerequisites.

**Contact time** 10 lectures per week

**Language of tuition** Module is presented in English

**Department** Mining Engineering

**Period of presentation** Semester 1 or Semester 2

### Module content

History of explosives, types of explosives: primary and secondary explosives, thermodynamics of detonation, strength of explosives. Methods and techniques, explosive initiating systems, application of explosives in rock breaking; the effects of geology and drilling. Surface and underground blasting, controlled blasting, vibration control, air blast. Ethics and regulatory compliance. Equipment and calculations.

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