



# University of Pretoria Yearbook 2021

## Mining 410 (PMY 410)

**Qualification** Undergraduate

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

**Module credits** 16.00

**NQF Level** 08

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

[BEng Mining Engineering ENGAGE](#)

**Prerequisites** PRX 321, PME 320, PMY 320, Finalists only

**Contact time** 1 tutorial per week, 2 practicals per week, 3 lectures per week

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

**Department** Mining Engineering

**Period of presentation** Semester 1

### Module content

Specific mining techniques. Shafts: Types, methods and equipment for sinking; economic considerations. Tunneling: Design, development techniques and equipment. Design and construction of large excavation. Design, construction, reinforcing and repair of ore passes. Fires in gold and coal mines: Causes, prevention, detection, combating and insurance. Flooding: Water sources, results, dangers, sealing and control.

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