

# University of Pretoria Yearbook 2019

## Introduction to mining 210 (PMY 210)

**Qualification** Undergraduate

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

**Module credits** 8.00

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

**Contact time** 2 tutorials per week, 2 lectures per week

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

**Department** Mining Engineering

**Period of presentation** Semester 2

### Module content

Introduction: Mining in South Africa: Overview of mining and history in South Africa, Minerals and mining.  
Surface mining: Surface mining methods, Surface mining planning, Rock breaking, Rock loading and transport.  
Underground hard rock mining: A mine in outline, explanation of underground mining terms, basic mine layouts, shafts, development, stoping methods, compressed air, water and electrical reticulation. Underground coal mining: planning and development, rock breaking: stoping and tunnelling. Mine environmental engineering: ventilation practice, airflow, fans, gases, heat, psychrometry. Mine strata control: strata control in deep and shallow underground mines, strata control in coal mines.

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