

University of Pretoria Yearbook 2022

Introduction to mining 121 (PMY 121)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 05

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

[BEng \(Mining Engineering\) ENGAGE](#)

Prerequisites No prerequisites.

Contact time 2 lectures per week, 2 tutorials 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 method, 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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