

INTRODUCTION TO MINING ENGINEERING

MINN0104

30 Jun - 11 Jul 2025



Course Investment: R22,400.00 (tbc)

Summary of the Course

Due to the unique and specialised nature of the Mining Industry, non-mining engineers are often left confused and uncertain how to proceed with careers in mining engineering as well as periphery mining professions. For prospective students of the various postgraduate programmes of the School of Mining Engineering (the School), it is imperative that prospective students be fully *au fait* with the various subjects and requirements of the postgraduate programme. This is to enable effective decisions in choosing an area of specialisation, and to be able to conduct the necessary research into such specialisations.

The Introduction to Mining Engineering Short Course provides the background and introduction to the various specialities offered by the School, and also introduces prospective students to the elements and requirements for completing a postgraduate qualification at the School.

Course Content

1. Mining Engineering

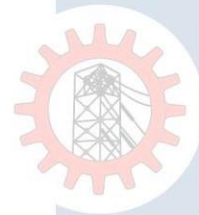
- a) Mining terminology and methods
- b) Mining Geology
- c) Mechanical excavation
- d) Drilling and blasting
- e) Mine transportation
- f) Mine ventilation and the operational environment
- g) Rock mechanics and Rock Engineering
- h) Mine Surveying
- i) Computerised mine design

2. Mining Economics

- a) Mineral Economics
- b) Mine Planning

3. Sustainability and Regulatory Matters

- a) Sustainable Development
- b) Mine Health and Safety
- c) Legal and Industry Regulation
- d) Compliance and Reporting



4. Research Methods

- a) Research planning and writing
- b) Research methods and critical thinking
- c) Library Use and Research Ethics

Target Audience

The Course is aimed at the following persons:

- All persons who want to engage in postgraduate study at the School and who do not have a mining background or knowledge or who have not met the requirements for such study
- Persons who would like to familiarise themselves with the basic principles of mining engineering

Method of assessment

This course is a NQF level 7 certificated course and students are required to successfully satisfy the following course assessments in order to obtain a certificate of competence:

- A written examination which will take place 2 weeks after the course (25 July 2025)
- An assignment to be submitted four weeks after the course (08 August 2025)

Registration

To register for this course click here: <https://witsplus.ac.za/c/introduction-to-mining-engineering-minn0104/apply>

Contact person

Ana-Lucia Cheon
E-mail: ana-lucia.cheon1@wits.ac.za
Call: 011 717 9298 / 0117177408

