

## University of Pretoria Yearbook 2016

## Mine design 422 (PMZ 422)

**Qualification** Undergraduate

**Faculty** Faculty of Engineering, Built Environment and Information Technology

Module credits 42.00

**Programmes** BEng Mining Engineering

BEng Mining Engineering Engage

Prerequisites PMY 410, PSZ 410, PEE 410. PNB 400, Finalists only

**Contact time** 4 lectures per week

Language of tuition English

Academic organisation Mining Engineering

Period of presentation Semester 2

## Module content

This module entails the completion of an engineering project from concept to delivery. The student must demonstrate mastery of a mining engineering project. The module focuses on the formulation of a mining engineering problem, the development of appropriate extraction methodologies, project planning and management and then completion of a technical project of a given nature, scope and complexity.

Students are required to design a mine at the conceptual business case level. Students are given a surface plan and borehole data from which they have to design a mine in teams of 3 – 5 students. They have access to a mining engineer in industry to assist with advice. The design has to incorporate a market analysis, layout design, working method, surface layout, environmental impacts and financial analysis. The design is submitted in book form and each team member has to do a presentation of the design.

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