

University of Pretoria Yearbook 2022

Mine ventilation engineering 410 (PEE 410)

Qualification Undergraduate

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

Module credits 8.00

NQF Level 08

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

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

Prerequisites PEE 321

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 1

Module content

Refrigeration: Elementary refrigeration principles, including concepts and methods, chilled water systems, including cooling distribution methods. Elementary mine ventilation planning, basic planning parameters and elementary mine ventilation economics and the impact of incorrect design and applications on safety and health. Mine gases, their origin and gas/coal dust explosions. Aspects of the Mine Health and Safety act are also dealt with.

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