

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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