

University of Pretoria Yearbook 2022

Geodynamics and ore formation 352 (GLY 352)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	18.00
NQF Level	07
Programmes	BEng (Mining Engineering) BEng (Mining Engineering) ENGAGE
Prerequisites	GLY 256
Contact time	2 practicals per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Geology
Period of presentation	Quarter 3

Module content

This module is offered to mining engineering students, and addresses the processes that formed mineral deposits, and the geological approach to exploiting such deposits. The module covers the principles of ore-forming processes and geological environments of ore formation, ore classification schemes, the geometry and geostatistical evaluation of ore bodies, the principles of rock deformation, stress, strain and rheology, joints, fault systems, folds and interference folding, tectonic fabrics, shear zones, and progressive deformation. The practicals cover the identification and classification of ore deposits, and the recognition and mitigation of geologically related mining hazards such as faults, shears and folding.

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