



University of Pretoria Yearbook 2020

Engineering geology and rock mechanics 369 (GLY 369)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module content

Definition and scope of engineering geology; engineering geological properties and problems of rocks and soils within different stratigraphic units and climatic regions in southern Africa. Strength and failure modes of rock material and rock failure criteria. The characteristics of joints in rock. Joint line surveys and interpretation of data. Characteristics of a rock mass, rock mass classification and determination of strength. Slope stability in surface mines. Induced seismicity due to deep mining and rock bursts. This is in support of United Nations Sustainable Development Goals dealing with clean water, sanitation, infrastructure development.

Module credits 36.00

Programmes [BSc Engineering and Environmental Geology](#)

[BSc Geology](#)

Prerequisites GLY 365

Contact time 2 practicals per week, 4 lectures per week

Language of tuition Module is presented in English

Department Geology

Period of presentation Semester 2

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