

University of Pretoria Yearbook 2022

Rock breaking 321 (PRX 321)

Qualification Undergraduate

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

Module credits 16.00

NQF Level 07

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

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

Prerequisites MTX 221 GS

Contact time 2 tutorials per week, 3 lectures per week

Language of tuition Module is presented in English

Department Mining Engineering

Period of presentation Semester 2

Module content

The importance of improved safety standards, cost effectiveness and productivity has driven technical mining personnel to examine all facets of their operations. Increasingly, it has been realized that an efficient drilling and blasting program will impact positively throughout the mining operation, from loading to maintenance, hauling to crushing, ground support to scaling and grade control to recover with an invariable increase in the overall profitability through technical advanced projects. Through the safe, efficient and innovative use of explosives for rock breaking the mining engineer will make a positive contribution to the overall mining operation. Due to the nature of the topics discussed in this module, a number of case studies are used to emphasise the safe handling, application and destruction of explosives. The Mine Health and Safety Act is dealt with and the Explosives Act receives specific attention. The module also covers aspects of non-explosive rock breaking and cutting.

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