University of Pretoria Yearbook 2017

Explosives engineering 321 (PRX 321)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	8.00
Programmes	BEng Mining Engineering
	BEng Mining Engineering
	BEng Mining Engineering ENGAGE
Prerequisites	MTX 221
Contact time	2 tutorials per week, 3 lectures per week
Language of tuition	Module is presented in English
Academic organisation	Mining Engineering
Period of presentation	Semester 2

Module content

Explosive engineering: 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.