

University of Pretoria Yearbook 2018

Minerals processing 310 (NMP 310)

Qualification Undergraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 16.00

Programmes BEng Metallurgical Engineering

BEng Metallurgical Engineering ENGAGE

BEng Mining Engineering

BEng Mining Engineering ENGAGE

Prerequisites No prerequisites.

Contact time 3 lectures per week, 4 practicals per week

Language of tuition Module is presented in English

Department Materials Science and Metallurgical Engineering

Period of presentation Semester 1

Module content

Minerals processing in perspective (economic importance, economic nature of mineral deposits, mineral properties and analysis, mineral processing functions). Liberation analysis (importance and measurement of liberation; particle size analysis). Comminution (theories and principles, crushers, grinding mills). Screening and classification (industrial screening, cyclones). Concentration processes (gravity concentration, dense medium concentration). Froth flotation.

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