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# University of Pretoria Yearbook 2021

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## Minerals processing 310 (NMP 310)

**Qualification** Undergraduate

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

**Module credits** 16.00

**NQF Level** 07

**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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