University of Pretoria Yearbook 2017

BEngHons Metallurgical Engineering (12240063)

Duration of study	1 year
Total credits	120

Programme information

The curriculum is determined in consultation with the relevant heads of departments. A student is required to pass modules to the value of at least 128 credits.

The degree is awarded on the basis of examinations only.

Admission requirements

Subject to the stipulations of the General Regulations, Reg. G.1.3 and G.54, a BEng degree or equivalent qualification is required for admission.

Other programme-specific information

A limited number of appropriate modules from other departments are allowed.

Examinations and pass requirements

i. The examination in each module for which a student is registered, takes place during the normal examination period after the conclusion of lectures (i.e. October/November or May/June).
ii. A student registered for the honours degree must complete his or her studies within two years (full-time), or within three years (part-time) after first registration for the degree: Provided that the Dean, on recommendation of the relevant head of department, may approve a stipulated limited extension of this period.
iii. A student must obtain at least 50% in an examination for each module where no semester or year mark is required. A module may only be repeated once.
iv. In modules where semester or year marks are awarded, a minimum examination mark of 40% and a final mark of 50% is required.
v. No supplementary or special examinations are granted at postgraduate level.

Pass with distinction

A student passes with distinction if he or she obtains a weighted average of at least 75% in the first 128 credits for which he or she has registered (excluding modules which were discontinued timeously). The degree is not awarded with distinction if a student fails any one module (excluding modules which were discontinued timeously).

Curriculum: Final year

Minimum credits: 128

NLO 700 compulsory module / verpligte module

Core modules

Electrometallurgy 700 (NEL 700) - Credits: 30.00
Physical metallurgy 700 (NFM 700) - Credits: 30.00
Heat treatment 700 (NHB 700) - Credits: 30.00
Hydrometallurgy 700 (NHM 700) - Credits: 30.00
Corrosion 700 (NKR 700) - Credits: 30.00
Research project 700 (NLO 700) - Credits: 30.00
Mechanical metallurgy 700 (NMM 700) - Credits: 30.00
Minerals processing 700 (NMP 700) - Credits: 30.00
Metallurgical analysis 700 (NPA 700) - Credits: 16.00
Pyrometallurgy 700 (NPM 700) - Credits: 30.00
Froth flotation 700 (NSF 700) - Credits: 30.00
Welding metallurgy 700 (NSW 700) - Credits: 30.00
Refractory materials 700 (NVM 700) - Credits: 30.00
Welding processes 700 (NWP 700) - Credits: 30.00
Design of welded structures 701 (NWP 701) - Credits: 30.00
Applied theory of sampling for minerals processing 701 (NMP 701) - Credits: 30.00
Fabrication engineering 700 (NFE 700) - Credits: 30.00
Nuclear reactor materials 700 (NNR 700) - Credits: 30.00
Mathematical modelling of metallurgical processes and materials 780 (NWM 780) - Credits: 30.00