

---

# University of Pretoria Yearbook 2016

---

## BEngHons Metallurgical Engineering (12240061)

**Duration of study** 1 year

**Total credits** 128

### 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. November/January or June/July).
- 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**

### Core modules

Electrometallurgy 700 (NEL 700) - Credits: 32.00  
Physical metallurgy 700 (NFM 700) - Credits: 32.00  
Heat treatment 700 (NHB 700) - Credits: 32.00  
Hydrometallurgy 700 (NHM 700) - Credits: 32.00  
Corrosion 700 (NKR 700) - Credits: 32.00  
Project 700 (NLO 700) - Credits: 32.00  
Mechanical metallurgy 700 (NMM 700) - Credits: 32.00  
Minerals processing 700 (NMP 700) - Credits: 32.00  
Metallurgical analysis 700 (NPA 700) - Credits: 16.00  
Pyrometallurgy 700 (NPM 700) - Credits: 32.00  
Welding metallurgy 700 (NSW 700) - Credits: 32.00  
Refractory materials 700 (NVM 700) - Credits: 32.00  
Welding processes 700 (NWP 700) - Credits: 32.00  
Design of welded structures 701 (NWP 701) - Credits: 32.00  
Applied theory of sampling for minerals processing 701 (NMP 701) - Credits: 32.00  
Fabrication engineering 700 (NFE 700) - Credits: 32.00  
Nuclear reactor materials 700 (NNR 700) - Credits: 32.00  
Mathematical modelling of metallurgical processes and materials 780 (NWM 780) - Credits: 32.00

---

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.