

# University of Pretoria Yearbook 2017

## Pyrometallurgy 700 (NPM 700)

**Qualification** Postgraduate

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

**Module credits** 30.00

**Programmes** [BEngHons Metallurgical Engineering](#)  
[BScHons Applied Science Metallurgy](#)

**Prerequisites** No prerequisites.

**Contact time** 48 contact hours per semester

**Language of tuition** Module is presented in English

**Academic organisation** Materials Science and Metallur

**Period of presentation** Year

### Module content

We aim to provide you with practice in using fundamental principles to analyse pyrometallurgical processes – to be able to go from understanding to process improvement. To this end, the necessary fundamentals of reaction equilibria (including activity descriptions), reaction kinetics, and mass and energy balances are reviewed. Practical examples illustrate the use of these principles. In the final block, we analyse a number of practical processes in more detail. Throughout, the emphasis is on quantification, and at least half of the contact time is devoted to computer-based calculations.

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.