



University of Pretoria Yearbook 2020

Pyrometallurgy 700 (NPM 700)

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| Qualification | Postgraduate |
| Faculty | Faculty of Engineering, Built Environment and Information Technology |
| Module credits | 30.00 |
| Programmes | BEngHons Metallurgical Engineering BSchHons Applied Science Metallurgy |
| Prerequisites | No prerequisites. |
| Contact time | 48 contact hours per semester |
| Language of tuition | Module is presented in English |
| Department | Materials Science and Metallurgical Engineering |
| Period of presentation | Semester 1 or Semester 2 |

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.

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