

# University of Pretoria Yearbook 2018

## Process design 421 (NOP 421)

**Qualification** Undergraduate

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

**Module credits** 32.00

**Programmes** [BEng Metallurgical Engineering](#)  
[BEng Metallurgical Engineering ENGAGE](#)

**Prerequisites** (NHM 322), (NMM 320), (NPM 321), (NVM 321)

**Contact time** 1 lecture per week, 1 tutorial per week

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

**Department** Materials Science and Metallurgical Engineering

**Period of presentation** Semester 2

### Module content

Philosophy of design and the design process; phases of plant design and their interrelationships. Principles of project planning and management. Unit and process design, simulation, economic evaluation and optimising as applicable to the metallurgical industry. Execution of a process design project, submission of a report, oral presentations and construction of a scale model.

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