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# University of Pretoria Yearbook 2019

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## Process design 421 (NOP 421)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	32.00
<b>Programmes</b>	<a href="#">BEng Metallurgical Engineering</a> <a href="#">BEng Metallurgical Engineering Engage</a>
<b>Prerequisites</b>	(NHM 322), (NMM 320), (NPM 321), (NVM 321)
<b>Contact time</b>	1 tutorial per week, 1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Materials Science and Metallurgical Engineering
<b>Period of presentation</b>	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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