



# University of Pretoria Yearbook 2019

## Automation 410 (EBT 410)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module content</b>	Plant automation issues. The steps taken to establish controllers for industrial processes. Static and dynamic properties of sensors and actuators. Obtaining models from process data. Plant automation platforms. Model-bases PID and internal model control. Turning and troubleshoot control loops. Unconstrained single-input-single-output model predictive control. Economic evaluation of automation systems.
<b>Module credits</b>	16.00
<b>Programmes</b>	<a href="#">BEng Electrical Engineering</a> <a href="#">BEng Electrical Engineering Engage</a> <a href="#">BEng Electronic Engineering</a> <a href="#">BEng Electronic Engineering Engage</a>
<b>Prerequisites</b>	EBB 320 GS
<b>Contact time</b>	3 lectures per week, 1 tutorial per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Electrical, Electronic and Computer Engineering
<b>Period of presentation</b>	Semester 1

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