

University of Pretoria Yearbook 2018

Control systems 320 (EBB 320)

Qualification Undergraduate

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

Module credits 16.00

Programmes [BEng Computer Engineering](#)
[BEng Computer Engineering ENGAGE](#)
[BEng Electrical Engineering](#)
[BEng Electrical Engineering ENGAGE](#)
[BEng Electronic Engineering](#)
[BEng Electronic Engineering ENGAGE](#)

Prerequisites ELI 220 GS

Contact time 1 practical per week, 1 tutorial per week, 3 lectures per week

Language of tuition Module is presented in English

Department Electrical, Electronic and Computer Engineering

Period of presentation Semester 2

Module content

Modelling and simulation of physical systems. Block and signal flow diagrams. State variable formulation. Time and frequency domain analysis. Stability and sensitivity. Design methods, cascade (eg. PID) and feedback controllers.

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