

## University of Pretoria Yearbook 2021

## Control Systems 780 (MBB 780)

**Qualification** Postgraduate

**Faculty** Faculty of Engineering, Built Environment and Information Technology

Module credits 16.00

NQF Level 08

Prerequisites Working knowledge of MATLAB/OCTAVE

**Contact time** 21 contact hours per semester

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

**Department** Mechanical and Aeronautical Engineering

**Period of presentation** Semester 1

## Module content

Introduction to state space methods, full state feedback design, disturbances and tracking systems, linear observers, compensator design by the separation principle, linear quadratic optimum control, Kalman filter, linear quadratic Gaussian compensator.

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