



University of Pretoria Yearbook 2016

Optimum design 420 (MOO 420)

Qualification Undergraduate

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

Module content Introduction to elements of computer-aided design. Formulation of the optimum design problem. Concepts used in optimum design. Linear and integer programming methods. Numerical methods used for unconstrained and constrained optimum design. Model reduction techniques. Application to interactive and practical design optimisation.

Module credits 16.00

Programmes [BEng Mechanical Engineering](#)

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Prerequisites No prerequisites.

Contact time 1 practical per week, 3 lectures per week

Language of tuition English

Academic organisation Mechanical and Aeronautical En

Period of presentation Semester 2

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