

University of Pretoria Yearbook 2021

Design project 410 (MOX 410)

Qualification Undergraduate

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

Module credits 16.00

NQF Level 08

Programmes [BEng Mechanical Engineering](#)

[BEng Mechanical Engineering ENGAGE](#)

Prerequisites MOW 312 GS and MOW 323 GS

Contact time 8 tutorials per week

Language of tuition Separate classes for Afrikaans and English

Department Mechanical and Aeronautical Engineering

Period of presentation Semester 1

Module content

A comprehensive design and synthesis of components and systems relating to the mechanical engineering discipline. The design process includes aspects such as identifying and formulating the problem, functional and requirement analysis, conceptual design, detail design and analysis, ensuring that design meets applicable standards, codes of practice and legislation, techno-economic analysis (e.g. cost analysis) and considering the impacts and benefits of the design (e.g. social, environmental, health and safety). Professional and general communication of the design through written and oral communication.

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