

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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