

University of Pretoria Yearbook 2022

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	Module is presented in English
Department	Mechanical and Aeronautical Engineering
Period of presentation	Semester 1

Module content

Two exit-level Graduate Attributes (GAs) of ECSA are accessed and each must be passed in order to pass the module. GA3 Engineering Design & GA6 Professional & Technical Communication.

Engineering Design (GA3) is evaluated at the hand of (i) the definition and specification of the design problem, (ii) concept creation and concept selection, (iii) procedural & non-procedural calculations, analysis & optimisation, (iv) illustration and description of the complete design solution and (v) manufacturing & costing analysis and impacts & benefits of the design.

Professional and technical communication (GA6) is evaluated at the hand of (i) the written report, (ii) graphical communication (sketches, CAD images and detail & assembly drawings) for which there is a subminimum and (iii) oral communication.

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