

University of Pretoria Yearbook 2022

Simulation-based design 323 (MOW 323)

Qualification Undergraduate

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

Module credits 16.00

NQF Level 07

Programmes [BEng \(Mechanical Engineering\)](#)

[BEng \(Mechanical Engineering\) ENGAGE](#)

Prerequisites (MSD 210), MOW 227

Contact time 3 lectures per week, 5 tutorials per week

Language of tuition Module is presented in English

Department Mechanical and Aeronautical Engineering

Period of presentation Semester 2

Module content

Design of static and dynamic mechanical systems. Computational models for mechanical design. Model fidelity and additional modelling considerations. Systems engineering and functional analysis. Open-ended multidisciplinary design and design improvement of products and systems using engineering software.

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