

University of Pretoria Yearbook 2022

Engineering modelling 780 (MIL 780)

Qualification	Postgraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	08
Programmes	BEngHons Mechanical Engineering BScHons (Applied Science) Mechanics BScHons (Applied Science) Mechanics - Physical Asset Management
Prerequisites	No prerequisites.
Contact time	21 contact hours per semester
Language of tuition	Module is presented in English
Department	Mechanical and Aeronautical Engineering
Period of presentation	Semester 1 or Semester 2

Module content

Modelling Philosophies, Background Mathematics for Modelling with Data, Modelling Formulation, Data Representation and Projections, Model Calibration, Model Selection, Uncertainty Quantification, Computational Tools.

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