

University of Pretoria Yearbook 2018

Experimental structural dynamics 783 (MSY 783)

Qualification Postgraduate

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

Module credits 16.00

Programmes [BScHons Applied Science Mechanics](#)
[BScHons Applied Sciences Mechanics: Physical Asset Management](#)

Prerequisites A working knowledge of MATLAB/OCTAVE

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

Module content

Spatial, modal and response models of structures, frequency response functions and the relationships between spatial, modal and response models for single degree of freedom systems and multi-degree of freedom systems, modal analysis, operational modal analysis, updating finite element models.

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