

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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