University of Pretoria Yearbook 2018

Mathematical modelling 152 (WTW 152)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
Programmes	BSc Computer Science
	BSc Information and Knowledge Systems
	BSc Applied Mathematics
	BSc Extended programme - Mathematical Sciences
	BSc Extended programme - Physical Sciences
	BSc Mathematical Statistics
	BSc Mathematics
	BSc Physics
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	Refer to Regulation 1.2
Contact time	1 tutorial per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 1

Module content

Introduction to the modelling of dynamical processes using difference equations. Curve fitting. Introduction to linear programming. Matlab programming. Applications to real-life situations in, among others, finance, economics and ecology.