



University of Pretoria Yearbook 2016

Mathematical modelling 152 (WTW 152)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 8.00

Programmes BSc(Computer Science) Computer Science

BSc Applied Mathematics

BSc Chemistry

BSc Extended programme - Mathematical Sciences

BSc Extended programme - Physical Sciences

BSc Geography

BSc Geology

BSc Mathematical Statistics

BSc Mathematics

BSc Meteorology

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 English

Academic organisation Mathematics and Applied Maths

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.

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