



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.

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