



# University of Pretoria Yearbook 2017

## 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

**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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