

## University of Pretoria Yearbook 2023

# Mathematical modelling 152 (WTW 152)

Faculty Faculty of Natural and Agricultural Sciences  Module credits 8.00  NQF Level 05  Programmes BSc (Computer Science)  BSc (Information and Knowledge Systems)  BSc (Actuarial and Financial Mathematics)  BSc (Applied Mathematics)
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BSc (Information and Knowledge Systems)  BSc (Actuarial and Financial Mathematics)
BSc (Actuarial and Financial Mathematics)
BSc (Applied Mathematics)
Bac (Applied Fidelical)
BSc (Chemistry)
BSc (Mathematical Statistics)
BSc (Mathematics)
BSc (Physics)
BSc extended programme - Mathematical Sciences
BSc extended programme - Physical Sciences
Service modules Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b> 50% for Mathematics in Grade 12
Contact time 1 practical per week, 2 lectures per week
Language of tuition Module is presented in English
<b>Department</b> Mathematics and Applied Mathematics
Period of presentation Semester 1

## **Module content**

The module serves as an introduction to computer programming as used in science. Modelling of dynamical processes using difference equations; curve fitting and linear programming are studied. Applications are drawn from real-life situations in, among others, finance, economics and ecology.

### **Regulations and rules**

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.



The General Academic Regulations (G Regulations) and General Student Rules apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.

### University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.