

University of Pretoria Yearbook 2017

Numerical analysis 123 (WTW 123)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 8.00

Programmes BSc Information and Knowledge Systems

BSc Actuarial and Financial Mathematics

BSc Applied Mathematics

BSc Extended programme - Mathematical Sciences

BSc Extended programme - Physical Sciences

BSc Mathematical Statistics

BSc Mathematics

BSc Meteorology

BSc Physics

Service modules Faculty of Engineering, Built Environment and Information Technology

Prerequisites WTW 114 GS

Contact time 1 tutorial per week, 2 lectures per week

Language of tuition Separate classes for Afrikaans and English

Academic organisation Mathematics and Applied Maths

Period of presentation Semester 2

Module content

Non-linear equations, numerical integration, initial value problems for differential equations, systems of linear equations. Algorithms for elementary numerical techniques are derived and implemented in computer programmes. Error estimates and convergence results are treated.

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