



University of Pretoria Yearbook 2022

Numerical analysis 123 (WTW 123)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
NQF Level	05
Programmes	BSc (Information and Knowledge Systems) BSc (Meteorology) BSc (Actuarial and Financial Mathematics) BSc (Applied Mathematics) 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
Prerequisites	WTW 114
Contact time	1 practical per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
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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