

University of Pretoria Yearbook 2023

Mathematics 238 (WTW 238)

FacultyFaculty of Natural and Agricultural SciencesModule credits16.00NQF Level06ProgrammesBEng (Chemical Engineering)BEng (Chemical Engineering) ENGAGEBEng (Civil Engineering)Image: Streig (Scivil Engineering) ENGAGEBEng (Civil Engineering)Image: Streig (Scivil Engineering) ENGAGEBEng (Computer Engineering)Image: Streig (Scivil Engineering) ENGAGEBEng (Computer Engineering) ENGAGEImage: Streig (Electrical Engineering) ENGAGEBEng (Electrical Engineering)Image: Streig (Electrical Engineering) ENGAGEBEng (Electronic Engineering) ENGAGEImage: Streig (Industrial Engineering) ENGAGEBEng (Industrial Engineering)Image: Streig (Industrial Engineering) ENGAGEBEng (Mechanical Engineering) ENGAGEImage: Streig (Industrial Engineering) E
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BEng (Mining Engineering)
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Service modules Faculty of Engineering, Built Environment and Information Technology
Prerequisites WTW 256 and WTW 258 GS
Contact time1 tutorial per week, 4 lectures per week
Language of tuitionModule is presented in English
Department Mathematics and Applied Mathematics
Period of presentation Semester 2



Module content

Linear algebra, eigenvalues and eigenvectors with applications to first and second order systems of differential equations. Sequences and series, convergence tests. Power series with applications to ordinary differential equations with variable coefficients. Fourier series with applications to partial differential equations such as potential, heat and wave equations.

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.