

University of Pretoria Yearbook 2021

Calculus 258 (WTW 258)

FacultyFaculty of Natural and Agricultural SciencesModule credits8.00NQF Level06ProgrammesBEng Chemical EngineeringBEng Chemical Engineering ENGAGEBEng Civil Engineering ENGAGEBEng Civil Engineering ENGAGEBEng Civil Engineering ENGAGEBEng Computer Engineering ENGAGEBEng Computer EngineeringBEng Electrical Engineering ENGAGEBEng Electrical EngineeringBEng Electrical EngineeringBEng Electrical EngineeringBEng Electrical Engineering ENGAGEBEng Electrical Engineering ENGAGE
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BEng Industrial Engineering ENGAGE
BEng Mechanical Engineering
BEng Mechanical Engineering ENGAGE
BEng Metallurgical Engineering
BEng Metallurgical Engineering ENGAGE
BEng Mining Engineering
BEng Mining Engineering ENGAGE
BSc Mathematics
BSc Meteorology
Service modules Faculty of Engineering, Built Environment and Information Technology
Prerequisites WTW 158 and WTW 164
Contact time1 tutorial per week, 2 lectures per week
Language of tuitionModule is presented in English



Department Mathematics and Applied Mathematics

Period of presentation Semester 1

Module content

Calculus of multivariable functions, directional derivatives. Extrema. Multiple integrals, polar, cylindrical and spherical coordinates. Line integrals and the theorem of Green. Surface integrals and the theorems of Gauss and Stokes.

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