



University of Pretoria Yearbook 2021

Mathematics 144 (WTW 144)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	8.00
NQF Level	05
Programmes	BEd Senior Phase and Further Education and Training Teaching BSc extended programme - Biological and Agricultural Sciences
Prerequisites	WTW 133 or WTW 135 GS. BCom Extended Programme students who wish to transfer to BCom (Economics):
Contact time	1 tutorial per week, 3 lectures per week, Foundation Course
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 2

Module content

Functions: Rate of change, exponential functions, the natural logarithm, exponential growth and decay, proportionality, power functions, fitting formulas to data. Rates of change and the derivative: Instantaneous rate of change, the derivative function, interpretations of the derivative, the second derivative.

Differentiation: Formulas and rules, applications, extremes of a function. All topics are studied in the context of applications.

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