

University of Pretoria Yearbook 2022

Main principles of analysis in application 735 (WTW 735)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	15.00
NQF Level	08
Programmes	BScHons (Mathematics and Mathematics Education) (Algebra and Analysis) BScHons (Mathematics and Mathematics Education) (Applied Analysis) BScHons (Mathematics and Mathematics Education) (Differential Equations and Modelling) BScHons Applied Mathematics BScHons Financial Engineering
Prerequisites	Calculus at 2nd-year level (eg WTW 218) and one 3rd-year level module on analysis or applications of analysis (eg WTW 310, WTW 382, WTW 383 or WTW 386)
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 1

Module content

Study of main principles of analysis in the context of their applications to modelling, differential equations and numerical computation. Specific principles to be considered are those related to mathematical biology, continuum mechanics and mathematical physics as presented in the modules WTW 772, WTW 787 and WTW 776, respectively.

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