



University of Pretoria Yearbook 2022

Analysis 310 (WTW 310)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	18.00
NQF Level	07
Programmes	BCom (Statistics and Data Science) BCom BSc (Actuarial and Financial Mathematics) BSc (Applied Mathematics) BSc (Chemistry) BSc (Geology) BSc (Mathematical Statistics) BSc (Mathematics) BSc (Physics)
Service modules	Faculty of Education Faculty of Economic and Management Sciences Faculty of Humanities
Prerequisites	WTW 220
Contact time	1 tutorial per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 1

Module content

Topology of finite dimensional spaces: Open and closed sets, compactness, connectedness and completeness. Theorems of Bolzano-Weierstrass and Heine-Borel. Properties of continuous functions and applications. Integration theory for functions of one real variable. Sequences of functions.

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