

University of Pretoria Yearbook 2016

Analysis 310 (WTW 310)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 18.00

Programmes BCom Statistics

BA Music Music

BSc Actuarial and Financial Mathematics

BSc Applied Mathematics

BSc Chemistry

BSc Environmental and Engineering Geology

BSc Environmental Sciences

BSc Geography

BSc Geoinformatics

BSc Geology

BSc Mathematical Statistics

BSc Mathematics

BSc Meteorology

BSc Physics

Service modules Faculty of Education

Faculty of Economic and Management Sciences

Faculty of Humanities

Prerequisites WTW 220

Contact time 2 lectures per week, 1 tutorial per week

Language of tuition Double Medium

Academic organisation Mathematics and Applied Maths

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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