

## University of Pretoria Yearbook 2016

## Abstract analysis 881 (WTW 881)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	30.00
Programmes	MSc Applied Mathematics
	MSc Mathematics
	MSc Mathematics of Finance
Prerequisites	Measure Theory and Functional Analysis on honours level
Contact time	1 lecture per week
Language of tuition	English
Academic organisation	Mathematics and Applied Maths
Period of presentation	Semester 1

## **Module content**

\*Consult with the Head of the Department of Mathematics and Applied Mathematics about the availability of this master's module in a particular year.

Capita selecta from the following: Duality theory. Weak and Weak\* topologies. The Krein- Milman theorem. The Stone-Weierstrass theorem. Fixed point theorems. Banach Algebras and the Gelfand transform. C\*-algebras and their representations. Semigroups of operators. Functional analysis applied to probability theory and stochastics.

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