

# University of Pretoria Yearbook 2020

## Abstract analysis 881 (WTW 881)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	0.00
<b>Prerequisites</b>	Measure Theory and Functional Analysis on honours level
<b>Contact time</b>	1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Mathematics and Applied Mathematics
<b>Period of presentation</b>	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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