



University of Pretoria Yearbook 2016

Abstract analysis 881 (WTW 881)

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| 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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