



University of Pretoria Yearbook 2018

Axiomatic set theory and mathematical logic 724 (WTW 724)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module content	Axiomatic set theory, ordinals, transfinite induction and recursion, ordinal arithmetic, the axiom of choice, cardinal arithmetic, the continuum hypothesis. Propositional and first order logic. The completeness and compactness theorems. Decidability, Gödel's incompleteness theorems.
Module credits	15.00
Programmes	BScHons Mathematics BScHons Mathematics and Mathematics Education Algebra and Analysis
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 1

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