

University of Pretoria Yearbook 2016

Axiomatic set theory and mathematical logic 724 (WTW 724)

FacultyFaculty of Natural and Agricultural SciencesModule credits15.00ProgrammesBScHons MathematicsContact time1 lecture per weekLanguage of tuitionEnglishAcademic organisationMathematics and Applied MathsPeriod of presentationSemester 1	Qualification	Postgraduate
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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.

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