



University of Pretoria Yearbook 2020

Discrete structures 115 (WTW 115)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module content	Propositional logic: truth tables, logical equivalence, implication, arguments. Mathematical induction and well-ordering principle. Introduction to set theory. Counting techniques: elementary probability, multiplication and addition rules, permutations and combinations, binomial theorem, inclusion-exclusion rule.
Module credits	8.00
Programmes	BSc Computer Science BSc Information and Knowledge Systems BSc Applied Mathematics BSc Chemistry BSc Extended programme - Mathematical Sciences BSc Mathematical Statistics BSc Mathematics BSc Meteorology BSc Physics
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Economic and Management Sciences
Prerequisites	50% for Mathematics in Grade 12
Contact time	1 tutorial per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 1

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