

University of Pretoria Yearbook 2017

Actuarial mathematics 221 (IAS 221)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	12.00
Programmes	BSc Actuarial and Financial Mathematics BSc Applied Mathematics BSc Mathematical Statistics BSc Mathematics
Prerequisites	IAS 211
Contact time	3 lectures per week, 1 practical per week
Language of tuition	Module is presented in English
Academic organisation	Actuarial Science
Period of presentation	Semester 2

Module content

Fundamentals of survival models, simple laws of mortality, derivation of contingent probabilities from life tables, contingent payments, expectation of life, elementary survival contracts, select and ultimate life tables, life annuities, accumulation and discounting, life insurance, net and gross premiums, reserves, statistical considerations.

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