

University of Pretoria Yearbook 2016

Financial mathematics 282 (IAS 282)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	12.00
Programmes	BCom Statistics BSc Actuarial and Financial Mathematics BSc Applied Mathematics BSc Mathematical Statistics BSc Mathematics
Service modules	Faculty of Economic and Management Sciences
Prerequisites	IAS 211 60%
Contact time	3 lectures per week, 1 practical per week
Language of tuition	English
Academic organisation	Actuarial Science
Period of presentation	Semester 2

Module content

Generalised cash-flow model. The time value of money. Interest rates. Discounting and accumulating. Compound interest functions. Equations of value. Loan schedules. Project appraisal. Investments. Simple compound interest problems. The "No Arbitrage" assumption and forward contracts. Term structure of interest rates. Stochastic interest rate models.

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