

University of Pretoria Yearbook 2016

Mathematical models of financial engineering 732 (WTW 732)

Postgraduate
Faculty of Natural and Agricultural Sciences
15.00
BScHons Financial Engineering
BScHons Mathematics of Finance
No prerequisites.
2 lectures per week
English
Mathematics and Applied Maths
Semester 1

Module content

Introduction to markets and instruments. Futures and options trading strategies, exotic options, arbitrage relationships, binomial option pricing method, mean variance hedging, volatility and the Greeks, volatility smiles, Black-Scholes PDE and solutions, derivative disasters.

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