

University of Pretoria Yearbook 2017

Statistical learning 880 (MVA 880)

Qualification	Postgraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	20.00
Programmes	MCom Mathematical Statistics (Coursework) MCom Statistics (Coursework) MSc Mathematical Statistics (Coursework)
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	No prerequisites.
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Academic organisation	Statistics
Period of presentation	Semester 1 or Semester 2

Module content

Supervised and unsupervised methods, including computational methods, within the broader context of data mining. Supervised learning. Linear methods for Regression, Classification and Prediction. Basis Expansions, Regularisation, Smoothing, Additive models and Support Vector Machines.

Unsupervised learning: Clustering, principal components, dimensional reduction. Data methods: Organisation of data and exploratory data analysis.

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