

University of Pretoria Yearbook 2021

Data science: analytics and visualisation 880 (TRG 880)

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| Qualification | Postgraduate |
| Faculty | Faculty of Economic and Management Sciences |
| Module credits | 20.00 |
| NQF Level | 09 |
| Programmes | MCom Advanced Data Analytics (Coursework) MSc Advanced Data Analytics (Coursework) |
| Service modules | Faculty of Natural and Agricultural Sciences |
| Prerequisites | Admission to relevant programme. |
| Contact time | 1 lecture per week |
| Language of tuition | Module is presented in English |
| Department | Statistics |
| Period of presentation | Semester 1 or Semester 2 |

Module content

Supervised learning and applications. Multicollinearity, ridge regression, the LASSO and the elastic net. Parametric and nonparametric logistic regression and nonlinear regression. Survival regression. Regression extensions: Random forests MARS and Conjoint analysis. Neural networks.

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