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# University of Pretoria Yearbook 2017

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## Data analytics and visualisation 880 (TRG 880)

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| <b>Qualification</b>          | Postgraduate  |
| <b>Faculty</b>                | <a href="#">Faculty of Natural and Agricultural Sciences</a>  |
| <b>Module credits</b>         | 20.00   |
| <b>Programmes</b>             | <a href="#">MCom Mathematical Statistics (Coursework)</a><br><a href="#">MCom Statistics (Coursework)</a><br><a href="#">MSc Mathematical Statistics (Coursework)</a> |
| <b>Service modules</b>        | Faculty of Natural and Agricultural Sciences  |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 1 lecture per week  |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Academic organisation</b>  | Statistics  |
| <b>Period of presentation</b> | Semester 1 or Semester 2  |

### Module content

Regression introduction: Simple and multiple regression. Multicollinearity, Heteroscedasticity, Ridge regression. Logistic regression: Estimation, inference and applications. Non Linear regression: Estimation, inference and applications. Text mining: Topic modelling with applications. Survival regression: Survival models applied in regression. Regression extensions: CART, MARS and Conjoint analysis.

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