



University of Pretoria Yearbook 2022

Regression analysis 780 (RAL 780)

| | |
|-------------------------------|---|
| Qualification | Postgraduate |
| Faculty | Faculty of Economic and Management Sciences |
| Module credits | 15.00 |
| NQF Level | 08 |
| Service modules | Faculty of Natural and Agricultural Sciences |
| Prerequisites | Admission to either BSchHons Statistics and Data Science or BComHons Statistics and Data Science. |
| Contact time | 1 lecture per week, 1 web-based period per week |
| Language of tuition | Module is presented in English |
| Department | Statistics |
| Period of presentation | Semester 1 or Semester 2 |

Module content

Matrix methods in statistics. Simple and multiple regression models. Sums of squares of linear sets. Generalised t- and F-tests. Residual analysis. Diagnostics for leverage, influence and multicollinearity. Indicator variables. Regression approach to analysis of variance. Weighted least squares. Theory is combined with practical work. A student cannot get credit for this module with a WST undergraduate major.

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.