



University of Pretoria Yearbook 2017

Applied econometrics 810 (LEK 810)

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| Qualification | Postgraduate |
| Faculty | Faculty of Natural and Agricultural Sciences |
| Module credits | 15.00 |
| Programmes | MSc Environmental Economics (Coursework) MScAgric Agricultural Economics (Coursework) |
| Prerequisites | LEK 725 or equivalent |
| Contact time | 1 lecture per week, 1 practical per week |
| Language of tuition | Module is presented in English |
| Academic organisation | Agric Econ, Ext + Rural Dev |
| Period of presentation | Semester 1 |

Module content

Econometrics. Linear regression: assumptions of the linear regression model, OLS estimators and properties, hypothesis testing (single and multiple restrictions), forecasting, dummy variables. Violations of the linear model assumptions: multi-collinearity, heteroscedasticity, serial correlation and distributed lag models, (GLS estimators). Advanced topics: Quantitative response models (logit, tobit and probit analysis) co-integration, instrumental variables and 2-stage least squares.

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