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# University of Pretoria Yearbook 2016

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## Regression analysis 780 (RAL 780)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Economic and Management Sciences</a>
<b>Module credits</b>	15.00
<b>Programmes</b>	<a href="#">BComHons Statistics</a> <a href="#">BScHons Biostatistics</a>
<b>Service modules</b>	Faculty of Health Sciences Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	STK 310 and STK 320
<b>Contact time</b>	1 lecture per week, 1 web-based period per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Statistics
<b>Period of presentation</b>	Semester 1

### 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. Ridge regression. Theory is combined with practical work.

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