



# University of Pretoria Yearbook 2016

## Basic statistical methods 797 (SHC 797)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Module credits</b>	24.00
<b>Programmes</b>	BScHons Applied Science Applied Science: Geotechnics BScHons Applied Science Applied Science: Metallurgy BScHons Applied Science Applied Science: Transportation Planning BScHons Applied Science Applied Science: Water Resources
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	40 Contact hours
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Civil Eng
<b>Period of presentation</b>	Year

### Module content

Basic mathematical methods. Algebra. Matrices and matrix algebra. Series expansions. Differentiation and integration. Probability theory. Graphic analysis. Discrete and continuous probability distributions. Moments and expectation. Statistical sampling and experimental design. Parameter estimation. Confidence intervals. Hypothesis testing. Regression analysis.

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