

University of Pretoria Yearbook 2016

Basic statistical methods 797 (SHC 797)

Qualification Postgraduate

Faculty Faculty of Engineering, Built Environment and Information Technology

Module credits 24.00

Programmes 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

Prerequisites No prerequisites.

Contact time 40 Contact hours

Language of tuition English

Academic organisation Civil Eng

Period of presentation 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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