



University of Pretoria Yearbook 2022

Mathematical statistics 121 (WST 121)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	16.00
NQF Level	05
Programmes	BCom (Statistics and Data Science) BCom BCom (Econometrics) BSc (Computer Science) BSc (Information and Knowledge Systems) BSc (Meteorology) BSc (Actuarial and Financial Mathematics) BSc (Applied Mathematics) BSc (Chemistry) BSc (Mathematical Statistics) BSc (Mathematics) BSc (Physics) BSc extended programme - Mathematical Sciences
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Economic and Management Sciences Faculty of Natural and Agricultural Sciences
Prerequisites	WST 111 GS or WST 133, 143 and 153
Contact time	1 practical per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Statistics
Period of presentation	Semester 2



Module content

Sampling distributions and the central limit theorem. Statistical inference: Point and interval estimation. Hypothesis testing with applications in one and two-sample cases. Introductory methods for: Linear regression and correlation, analysis of variance, categorical data analysis and non-parametric statistics. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

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