

University of Pretoria Yearbook 2017

Statistics 143 (STK 143)

Qualification Undergraduate

Faculty [Faculty of Economic and Management Sciences](#)

Module credits 16.00

Programmes [BCom Extended programme](#)

Prerequisites STK 133 and WTW 133

Contact time 1 practical per week, 2 tutorials per week, 6 lectures per week

Language of tuition Module is presented in English

Academic organisation Statistics

Period of presentation Semester 2

Module content

Optimisation techniques with economic applications: system of linear inequalities, solving of linear programming problems by means of the graphical and extreme point methods. Applications of differentiation and integration in statistic and economic related problems: the limit of a function, continuity, rate of change, the derivative of a function, differentiation rules, higher order derivatives, optimisation techniques, the area under a curve and applications of definite and indefinite integrals in Economic and Probability applications. Introduction to probability theory. Probability and inference: Theoretical distributions. Sampling distributions. Estimation theory and hypothesis testing of sampling averages and proportions (one-sample and two-sample cases). Non Parametric tests. Report writing and presentation. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

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