

University of Pretoria Yearbook 2019

Statistics 143 (STK 143)

Qualification Undergraduate

Faculty of Economic and Management Sciences

Module credits 16.00

Programmes BCom Extended programme

Prerequisites STK 133 and WTW 133

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

Language of tuition Module is presented in English

Department 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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