



University of Pretoria Yearbook 2019

Statistics 310 (STK 310)

Qualification Undergraduate

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

Module credits 25.00

Programmes [BCom](#)

[BCom Economics](#)

[BCom Informatics Information Systems](#)

[BCom Law](#)

[BCom Statistics](#)

[BScAgric Agricultural Economics and Agribusiness Management](#)

Service modules Faculty of Engineering, Built Environment and Information Technology

Faculty of Humanities

Faculty of Natural and Agricultural Sciences

Prerequisites STK 210, STK 220

Contact time 3 lectures per week, 1 practical per week

Language of tuition Module is presented in English

Department Statistics

Period of presentation Semester 1

Module content

Regression analysis: simple and multiple regression; nonlinear regression; correlation and the use of dummy variables. Multivariate distributions: normal, multinomial and poisson distribution. Linear combinations of normal variables. Analysis of variance and covariance. Regression analysis extensions: heteroscedasticity, serial correlation and lag structures. Applications of matrices, differentiation and integration in the economic and management sciences. Evaluation of simple economic models. Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

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