

University of Pretoria Yearbook 2021

Statistics 220 (STK 220)

Qualification Undergraduate

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

Module credits 20.00

NQF Level 06

Programmes [BCom](#)

[BCom Economics](#)

[BCom Informatics Information Systems](#)

[BCom Investment Management](#)

[BCom Law](#)

[BCom Statistics and Data Science](#)

[BIT Information Systems](#)

[BSc Computer Science](#)

[BSc Information and Knowledge Systems](#)

[BSocSci Philosophy, Politics and Economics](#)

[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 GS

Contact time 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Statistics

Period of presentation Semester 2

Module content

Multivariate probability distributions. Sampling distributions and the central limit theorem. Frequentist and Bayesian inference. Statistical learning and decision theory. Simulation techniques enhancing statistical thinking. Supervised learning: linear regression, estimation and inference. Non-parametric modelling. Supporting mathematical concepts. Statistical algorithms. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

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