



University of Pretoria Yearbook 2022

Statistics 220 (STK 220)

Qualification Undergraduate

Faculty Faculty of Economic and Management Sciences

Module credits 20.00

NQF Level 06

Programmes BCom (Informatics) Information Systems

BCom (Law)

BCom (Statistics and Data Science)

BCom

BCom (Economics)

BCom (Investment Management)

BIT (Information Systems)

BSc (Computer Science)

BSc (Information and Knowledge Systems)

BSocSci (Philosophy, Politics and Economics)

BSc (Meteorology)

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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