



University of Pretoria Yearbook 2020

Statistics 220 (STK 220)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	20.00
Programmes	BCom BCom Agribusiness Management BCom Economics BCom Informatics Information Systems BCom Investment Management BCom Law BCom Statistics BCom Statistics and Data Science BIT Information Systems 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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