

University of Pretoria Yearbook 2019

Statistics 121 (STK 121)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	13.00
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	STK 133 and STK 143 or WST 133 and WST 143 or STK 113 GS and STK 123 GS
Contact time	3 lectures per week, 1 tutorial per week, 1 practical per week
Language of tuition	Module is presented in English
Department	Statistics
Period of presentation	Semester 1

Module content

Students can only get credit for one of the following two modules: STK 120 or STK 121.

Multivariate statistics: Analysis of variance, categorical data analysis, distribution-free methods, curve fitting, regression and correlation, the analysis of time series and indices.

Statistical and economic applications of quantitative techniques: Systems of linear equations: drafting, matrices, solving, application. Optimisation: linear functions (two and more independent variables), non-linear functions (one and two independent variables). Marginal and total functions. Stochastic and deterministic variables in statistical and economic context: producers' and consumers' surplus, distribution functions, probability distributions, probability density functions. Identification, use, evaluation, interpretation of statistical computer packages and statistical techniques.

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