University of Pretoria Yearbook 2016

Statistics 120 (STK 120)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	13.00
Programmes	BAdmin Public Management
	BCom Agribusiness Management
	BCom Business Management
	BCom Communication Management
	BCom Economic and Management Sc
	BCom Economics
	BCom Entrepreneurship
	BCom Financial Sciences
	BCom Human Resource Management
	BCom Informatics: Information Systems
	BCom Investment Management
	BCom Law
	BCom Marketing Management
	BCom Option: Supply Chain Management
	BCom Recreation and Sports Management
	BCom Statistics
	BEd Senior Phase and Further Education and Training Teaching
	BSc Information Technology Information and Knowledge Systems
	BSc(Computer Science) Computer Science
	BTown and Regional Planning Town and Regional Planning
	BSocSci Option: Philosophy, Politics and Economics
	BConsumer Science Clothing: Retail Management
	BSc Applied Mathematics
	BSc Geoinformatics
	BSc Physics

BScAgric Agricultural Economics: Agribusiness Management

Service modules	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Education
	Faculty of Humanities
	Faculty of Natural and Agricultural Sciences
Prerequisites	STK 110 GS or both STK 113 GS and STK 123 GS or both WST 133 and WST 143 or STK 133 and STK 143 or STK 133 and STK 143
Contact time	1 practical per week, 3 lectures per week, 1 tutorial per week
Language of tuition	Both Afr and Eng
Academic organisation	Statistics
Period of presentation	Semester 2

Module content

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 and 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.
This module is also presented as an anti-semester bilingual module.