

University of Pretoria Yearbook 2017

Statistics 123 (STK 123)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	12.00
Programmes	BAdmin Public Management
	BCom
	BCom Business Management
	BCom Entrepreneurship
	BCom Human Resource Management
	BCom Marketing Management
	BCom Recreation and Sports Management
	BCom Supply Chain Management
	BEd Senior Phase and Further Education and Training Teaching
	BA Sport and Leisure Studies Sport and Recreation Management
Service modules	Faculty of Education
	Faculty of Humanities
	Faculty of Natural and Agricultural Sciences
Prerequisites	STK 113 GS
Contact time	1 tutorial per week, 1 practical per week, 3 lectures per week
Language of tuition	Separate classes for Afrikaans and English
Academic organisation	Statistics
Period of presentation	Semester 2



Module content

*On its own, STK 113 and 123 will not be recognized for degree purposes, but exemption will be granted for STK 110.

Optimisation techniques with economic applications: Data transformations and relationships with economic applications, operations and rules, linear, quadratic, exponential, hyperbolic and logarithmic functions; systems of equations in equilibrium, system of linear inequalities, solving of linear programming problems by means of the graphical and extreme point methods. Applications of differentiation and integration in statistic and economic related problems: the limit of a function, continuity, rate of change, the derivative of a function, differentiation rules, higher order derivatives, optimisation techniques, the area under a curve and applications of definite integrals. Probability and inference: Theoretical distributions. Sampling distributions. Estimation theory and hypothesis testing of sampling averages and proportions (one-sample and two-sample cases). Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques. The weekly one hour practical is presented during the last seven weeks of the semester.

The information published here is subject to change and may be amended after the publication of this information. The **General Regulations (G Regulations)** apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the **General Rules** section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.