



University of Pretoria Yearbook 2021

Statistics 113 (STK 113)

Qualification Undergraduate

Faculty Faculty of Economic and Management Sciences

Module credits 11.00

NQF Level 05

Programmes BAdmin Public Management and International Relations

BCom

BCom Business Management

BCom Human Resource Management

BCom Informatics Information Systems

BCom Marketing Management

BCom Supply Chain Management

BA

Service modules Faculty of Humanities

Prerequisites No prerequisites.

Contact time 1 practical per week, 1 tutorial per week, 3 lectures per week

Language of tuition Module is presented in English

Department Statistics

Period of presentation Semester 1



Module content

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

Data operations and transformations: Introductory concepts, the role of statistic, various types of data and the number system. Concepts underlying linear, quadratic, exponential, hyperbolic, logarithmic transformations of quantitative data, graphical representations, solving of equations, interpretations. Determining linear equations in practical situations. Characteristics of logarithmic functions. The relationship between the exponential and logarithmic functions in economic and related problems. Systems of equations in equilibrium. Additional concepts relating to data processing, functions and inverse functions, sigma notation, factorial notation, sequences and series, inequalities (strong, weak, absolute, conditional, double) and absolute values. Descriptive statistics – Univariate: Sampling and the collection of data, frequency distributions and graphical representations. Descriptive measures of location and dispersion. Probability: Introductory probability theory. Theoretical probability distributions. 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.

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