



Tshwane University of Technology (TUT) Business School 26 – 30 November 2018

A five-day Short Learning Programme (SLP) in Applied Statistical Methods of Data Analyses for Postgraduate Level Studies and Research (ASM501T)

BRIEF DESCRIPTION

This course is designed to fulfil the needs of people who need to produce a research proposal for a postgraduate level study, and to analyse quantitative and qualitative data sets for producing research reports and dissertations. The course is offered as a five-day short course at TUT Business School, situated in the Pretoria CBD. The course entails the write-up of proposals and dissertations as well as quantitative methods of data analyses. The statistical package, STATA, will be used for teaching.

LEARNING OUTCOMES

After completion of this course, the delegate should be able to produce research proposals for a postgraduate level study, and perform data entry, manipulation and analysis in STATA in areas that are related to descriptive statistics, one-sample tests, two-sample tests, chi-square tests of association, the analysis of variance, simple and multiple linear regression analysis, binary and multiple logistic regression analysis and sample size and power calculations.

The following topics will be covered:

- Conducting literature review and scientific writing
- Study designs
- The write-up of postgraduate level research proposals and dissertations
- The calculation of sample sizes and power for quantitative studies
- Summary of raw and grouped data sets using quantitative and graphical methods
- One and two-sample tests on means and proportions
- The Pearson chi-square test of association (cross-tab analyses)
- Simple and multiple linear regression and correlation analysis
- Binary and multinomial logistic regression analysis
- How to use the statistical package STATA for quantitative data analyses

WHO SHOULD ATTEND THE SHORT COURSE?

- All researchers and students in the fields of social sciences, business sciences, entrepreneurial studies, economics, environmental sciences, public health, biostatistics and engineering who wish to acquire basic skills in the use of STATA and the production of research reports and articles.
- Monitoring and evaluation practitioners and database administrators.
- University graduates who wish to pursue postgraduate level studies and advanced research activities.
- The short course is quite valuable to people who need to build capacity for conducting quantitative research and data analyses as well as postgraduate level students and their supervisors.

- Researchers and postgraduate level students who wish to acquire skills in writing research proposals and dissertations.

ADMISSION REQUIREMENT

A first degree in the fields of social sciences, business sciences, entrepreneurial studies, economics, environmental sciences, public health, biostatistics and engineering or equivalent.

PRESENTER

The course presenter is Professor Zeleke Worku, a statistician working at the TUT Business School in Pretoria, South Africa.

COURSE STRUCTURE AND VENUE

Delegates attend a five-day short course presented at the TUT Business School. Its physical address is 159 Nana Sita Street, Pretoria (CBD).

ASSESSMENT

The assessment of the short course comprises of

- 1) a project assignment
- 2) an oral presentation of a research proposal to a panel of experts
- 3) a four-hour written examination.

All three assessments are compulsory. Students who pass the short course will be given a certificate of competence.

COURSE FEE

The course fee is R10 000 (no VAT payable) per delegate and includes comprehensive course notes, textbooks, computer lab fees, lunch and refreshments. The fee excludes travel, accommodation and subsistence allowance. The student's guide will be uploaded on the ITS system of TUT. The complete study material will be provided to study on a CD electronically (lecture notes and data sets).

INFORMATION AND ENQUIRIES

For any registration and other enquiries or information about the five-day short course should be directed to the following address:

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