

# SHORT COURSE ON REGRESSION AND ANOVA METHODS

19-21 June 2017

## Potchefstroom campus

The short course aims to equip participants with the skills necessary to understand, analyse and interpret the statistical output obtained from regression and ANOVA analyses in order to answer specific research questions.

The following topics will be addressed:

- 1) The role of regression, ANOVA and ANCOVA methods in addressing various research problems in different research studies.
- 2) Different inferential statistical procedures related to regression, ANOVA and ANCOVA methods.
- 3) The assumptions underlying regression and ANOVA methods.
- 4) Remedial measures to address violations of the assumptions of regression and ANOVA methods.
- 5) Interpretation of main factorial and interaction effects in a two-way ANOVA model.
- 6) Interpretation of post-hoc tests for one-way and two-way ANOVA methods, as well as for ANCOVA methods.
- 7) Implementation of dummy variables as a substitute for qualitative regressors in regression models.

Course material will be available in IBM SPSS® or in StatSoft STATISTICA®.

To register for the short course, please complete the registration form:

<https://goo.gl/forms/xQxeFTyamnLzmj5f2>

DAY 1 – 19 June 2017	
08:00-09:00	Introduction to the SPSS environment (Optional session*)
09:00-10:30	Introduction and overview of the course**
10:30-11:00	TEA
11:00-13:00	ANOVA methods (1)
13:00-14:00	LUNCH
14:00-16:00	ANOVA methods (2)
DAY 2 – 20 June 2017	
08:30-10:30	ANOVA methods (3)
10:30-11:00	TEA
11:00-12:00	ANOVA methods (4)
12:00-13:00	Regression methods (1)
13:00-14:00	LUNCH
14:00-16:00	Regression methods (2)
DAY 3 – 21 June 2017	
08:30-10:00	Regression methods (3)
10:30-11:00	TEA
11:00-13:00	Regression methods (4)

\* This is an optional session for short course attendees whom are not familiar with SPSS or STATISTICA.

\*\* A revision of some basic concepts like hypothesis testing, p-values and confidence intervals will be covered.

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## Course Fee

R 3 500 per NWU student/ NWU personnel for all three days.

R 4 500 per non-NWU affiliated delegate for all three days.

Course material, tea and lunch included.

## Statistical Software Package

The delegates may choose to have the course material presented using examples and screen-shots either from IBM SPSS® or StatSoft STATISTICA®.

## Registration Closing Date

13 June 2017

## Certificate Awarded

A certificate of attendance from the North-West University will be awarded to all delegates who have completed the course.

### Enquiries:

#### Short course content

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#### Payment of course fee

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