DATA ANALYSIS USING MS EXCEL 2003

LOCATION: ARC-CENTRAL OFFICE, Hatfield, Pretoria, RSA
SCHEDULED DATES: Upon request
COURSE FEE: Approx. R650 pp. (Minimum 10 people)
BOOKS/MANUALS: Hand out = PowerPoint Presentation
COURSE DURATION: Two (2) days from 8:00 to 16:00

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Course coordinator: Mr. Frikkie Calitz
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COURSE DESCRIPTION & OUTLINE
The aims of this workshop are to equip students/researchers with skills to use Excel 2003 as a basis to:

- Create statistical field plans and to test for ANOVA assumptions
- Represent result in tables and graphs with LSD’s added
- Calculate Student’s t-LSD and assign a,b,c letter to non-significant ranges
- Perform regression and correlation analysis. Using pivot tables to summarize data and to check data for coding errors.
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OUTLINE
- What you need to know to perform Data analyses
- Performing a Randomized Complete Blocks Design data analysis
- Activating Analysis Tools in Excel and some limitations
- Complete Blocks design data analysis with two samples per plot
- Experimental Designs that can be analysed with Excel
- Performing a two-factor factorial data analysis in a Randomized Block Design
- Creating your own randomized field plan
- Performing a Latin square design data analysis and creating Pivot tables
- Calculating Significance level using the normal approximation for difference between two proportions and total counts
- Describing survey data and
- Regression with Excel
- Calculating Chi-Square to test for association and creating graphs
- Other Add-on Software recommended for Excel

LEARNING OUTCOMES: The student or researcher will be able to setup an ANOVA table with Excel 2010. They will also draw graphs and tables of means with LSD added. The Student will also learn a lot of features that can be useful when using Excel

WHO SHOULD ATTEND? Agricultural Students or Researchers that perform their own research projects

DELIVERY MODE: Presentation and Computer demonstration

ENTRY REQUIREMENTS: Own Computer with MS Excel 2003 installed