

SACEMA invites applications for the short course on

Introduction to R: Management, Exploration and Communication of Data

Stellenbosch University, 15 to 19 August 2022

The course will be held at the Manor House @ [STIAS](#), Stellenbosch, and starts at 09h00 daily until 17h00.

Course presenters: Dr James Azam, Junior Researcher at SACEMA
Dr Larisse Bolton, Researcher at SACEMA

Course fee: R9 495,00 **Early bird registration**, by 15 July 2022
R10 550,00 Registration after 15 July 2022

Note: Full payment must be processed prior to start of the course

Application closing date: 31 July 2022

[Click here](#) for more information

[Click here](#) to apply

Course Overview:

R is an open-source, statistical software platform that is growing in popularity due to its rapidly expanding number of libraries containing cutting edge statistical functions, as well as the user-friendly, built-in communication tools in RStudio. Course participants will not only be introduced to the basics of programming in R, but they will also learn how import and clean data, the basics of analysing data and visualising and reporting results. Specific topics that will be covered include importing data, cleaning/tidying data, joining datasets, dealing with dates and factor/categorical variables, and summarizing data using basic descriptive statistics, plots and tables.

Course Outline: Participants will learn:

- Base R programming and coding style;
- Data importation into and exportation out of RStudio;
- Data cleaning/tidying into a format suitable for analysis (using tidyverse packages like dplyr and tidyr);
- Data analysis using basic descriptive statistics;
- Data exploration and visualization using ggplot2 and a combination of R packages for plotting and summarising data; and a sneak peek into creating reproducible, dynamic reports using RMarkdown.

The course is suitable for graduate students or professionals who are familiar with statistical analysis and have managed or interacted with datasets using other software platforms.

Enquiries may be directed to the Training Coordinator: [Faikah Bruce](#)