

Introduction To R

Curriculum Overview – Public Health Research Centre (PHRC) NYUAD

Course Descriptions

This is a basic course on the open-source, powerful and highly extensible free statistical software R. This course aims to give you a brief introduction and understanding of the statistical software R ([R Project](#)) and RStudio ([RStudio Interface](#)). The course will assume no prior knowledge of programming in R or any other software.

Course Planning

There are four courses modules

- Introduction to the statistical software R and RStudio (2 sessions, each session lasts circa 90 minutes)
 - What is R and what is RStudio
 - Advantages and disadvantages of R and RStudio
 - Working with RStudio
 - Basic Arithmetic Operators
 - Standard Functions and Some Statistical Functions
 - Online help
 - Logical operators and links
- Objects in R (2 sessions, each session lasts circa 90 minutes)
 - Vectors
 - Matrices
 - Datasets - data frames
 - Lists
 - Files
 - Available datasets R