

R is a language and environment for statistical computing and graphics. R is highly extensible and is free software. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. The course assumes no prior knowledge of R and covers the following topics.

Prerequisite: you are assumed to be familiar with elementary statistical methodology such as hypothesis testing, analysis of variance, regression models etc.

Monday October 17 th	Tuesday October 18 th	Wednesday October 19 th	Thursday October 20 th	Friday October 21 st
Rooms : 409, 410, Amphi	Rooms : 409, 410, Amphi	Rooms : 409, 410, Amphi	Room : GSRDC	Room : GSRDC
9:00 <u>R & RStudio</u> - R packages - R command and script - Rmarkdown Nolwenn Le Meur	9:00 Quizz <u>Descriptive statistics</u> - summary - univariate tests - intro to grammar-oriented programming Nolwenn Le Meur	9:00 Quizz <u>Graphical functions</u> - Basic plots - ggplot2 library Nolwenn Le Meur	9:00 Quizz <u>Regression modelling</u> - Linear regression - Logistic regression - Poisson regression Nolwenn Le Meur	9:00 Project: Dataset analysis Nolwenn Le Meur
12:00 -1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch
<u>Data management</u> - Importing (reading) - Data types and structure - Recoding variable - Exporting (saving) Nolwenn Le Meur	Practice Nolwenn Le Meur	Practice Nolwenn Le Meur	Practice Nolwenn Le Meur	Project: Dataset analysis 3:45-4 :00 Garder 15 min pour que les étudiants remplissent l'enquête de satisfaction sur REAL Nolwenn Le Meur
4 pm	4 pm	4 pm	4 pm	4 pm

Please note that some small changes could occur