

Module 215: “Minor B Introduction to R: computing, graphics for statistics and epidemiology “

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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 November 19	Tuesday November 20	Wednesday November 21	Thursday November 22	Friday November 23
9:30 <u>R & RStudio</u> - R packages - R command and script - Rmarkdown Nolwenn Le Meur	9:00 Quizz <u>Descriptive statistics</u> - summary - tests - data.table library 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 4 pm	Practice Nolwenn Le Meur 4 pm	Practice Nolwenn Le Meur 4 pm	Practice Nolwenn Le Meur 4 pm	Project: Dataset analysis Nolwenn Le Meur 4 pm

Please note that some small changes could occur