

Master of Public Health - Semester 3

Week 45: from Monday 6th to Friday 10th November 2017

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

Coordinator: Nolwenn Le Meur

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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 6th	Tuesday November 7th	Wednesday November 8th	Thursday November 9th	Friday November 10th
10:00 Data management - Data types and structure - Importing and exporting - R packages Nolwenn Le Meur	9:00 Basic statistical functions - Statistical summaries - Probability distributions - Statistical tests Nolwenn Le Meur	9:00 Graphical functions - Basic plots - Advanced graphical functions Nolwenn Le Meur	9:00 More statistics with R - Linear regression model - Logistic regression model - ANOVA Nolwenn Le Meur	9:00 Project: Dataset analysis Nolwenn Le Meur
12:00 Lunch	12:00 Lunch	12:00 Lunch	12:00 Lunch	12:00 Lunch
1:30 Practice Nolwenn Le Meur	1:30 Practice Nolwenn Le Meur	1:30 Practice Nolwenn Le Meur	1:30 Practice Nolwenn Le Meur	1:30 Project Nolwenn Le Meur
5:30	4:30	4:30	4:30	4:30

Please note that some small changes could occur