Statistical computing with R.
1. Basic and intermediate methods

Course objective:
To provide an introduction to use of the R environment for graphical and statistical analysis in biology, biotechnology and food science and nutrition.

Learning goals:
- Knowledge and understanding: an introductory knowledge of principles of statistical computing; working knowledge of basic methods methods for statistical and graphical analysis.
- Applying knowledge and understanding: ability to develop code in R and use it for graphical and statistical analysis.
- Making judgements: ability to choose the graphical and statistical methods which are more appropriate in a given situation.
- Communication skills: ability to produce reports in a variety of formats.
- Learning skills: ability to access literature and technical information on statistical computing.

Prerequisites:
A BSc in Agriculture, Food Science, Chemistry, Biology, Biotechnology. At least 5 ECTS credits in Mathematics (some statistics, 3 ETCS credits in Statistics, may help). Ability to use spreadsheet software packages under Windows, MacOS or Unix/Linux operating systems. A basic knowledge of technical English language (for speakers of English as a second language a B1 or B2 level is suggested).

Course content:

Suggested readings: