



# SLUkurs

## Syllabus

**PFG0045 R - Introduction and practical applications, 5.0 credits**

## Syllabus approved

2014-02-04

## Subjects

Mathematic Statistics

## Education cycle

Third cycle

## Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

## Language

English

## Prior knowledge

- 1) Doctoral student and MSc och BSc in forestry (or jägmästare) Including higher level courses in mathematical statistics and/or forest economics.
- 2) Doctoral student and MSc or BSc in economics, management or business administration including higher level courses in quantitative analysis.
- 3) Doctoral student with other background (such as engineering) including quantitative analysis and some economics and/or management.

Good knowledge in English is vital to be able to follow the course.

### **Objective, including learning outcomes**

This R course is aimed to give basic knowledge on the R language and on the skills of writing R codes for practical applications. R is a free software environment for statistical computing and graphics, and has been widely used in the academic world and in teaching. The R contains a huge number of packages for practical applications in academic research. This intensive course will focus on the core of R programming language, and data manipulation with R. Detail statistical methods or analysis will not be taught in the course. We will provide examples of how to generate basic descriptive statistics, conduct a simple linear regression, data manipulation, etc. After the course, participants should master the basic knowledge of R language and have the skills in R to conduct statistical analysis.

### **Content**

The course includes lectures, computer exercises and final exam. The final content of course will be adapted based on the students' background.

### **Requirements for examination**

Final exam (assignments)

### **Additional information**

During January 2017, the classes offered during 2017 will be announced. For questions about this, please email [goran.bostedt@slu.se](mailto:goran.bostedt@slu.se)

### **Responsible department**

Department of Forest Economics