

Course ID Introduction to R programming

1. Course details

Semester:	1
Credit rating:	1 ECTS
Teaching units:	15
Pre-requisite(s):	The course starts gently and no previous knowledge of R is required although basic general programming knowledge would be a plus.
Lecturer(s):	Laurent Bergé (Laurent.berge@uni.lu)
Administrator:	Roswitha Glorieux
Tutor(s):	None
Seminar times and rooms:	See point 3.
Tutorial times and rooms:	None
Communications	It is important that students should regularly read their University e-mails, as important information will normally be communicated this way.
Mode of assessment:	Attendance and a term project. The term project is due two months after the course ends.
Examination Periods:	No
Course WebPage:	Moodle.uni.lu

2. Aims and objectives

Aims
The aim of the doctoral course is to familiarize students with the R programming language in order to enable them to deal with a wide range of applications.
Learning Objectives
On completion of this course unit successful students will be able to: <ol style="list-style-type: none"> 1. understand the logic of programming in R 2. manage any data set and create any kind of (even very) complex variable 3. create useful and well-crafted R functions 4. perform regressions 5. make nice graphics

3. Plan of semester

Campus Kirchberg

2019	from	to	Topic of lecture	Deadline for students' work
Monday 7 October	11h00	13h00	Discovering R, formats, accessing and manipulating the data, thinking in matrices, programming basics, first statistical tools	
	14h00	16h00		
Friday 11 October	11h00	13h00	Data management – Part 1	
	14h00	16h00		
Monday 14 October	11h00	13h00	Data management – Part 2	
	14h00	16h00		
Friday 18 October	11h00	13h00	Functions + Graphics + Regressions	Project due 15 th of December.
	14h00	15h00		

4. Course details (by topics)

Please refer to the syllabus for details.

5. Reference list/ Bibliography

Please refer to the syllabus for details.

6. Further information about assessment

Examination(s)		
Weighting:	50%	50%
Structure:	Attendance Pass/Fail	Project