UCLouvain

lfial2260

2021

Statistics for Linguistics

10.00 credits	22.5 h	Q1

Teacher(s)	Paquot Magali ;
Language :	English
Place of the course	Louvain-la-Neuve
Prerequisites	One course of introduction to linguistics.
Main themes	Quantitative analysis of linguistic data with R • Data visualization • Descriptive statistics : definitions ; computing and representation • Inferential statistics: main concepts • Basic statistical analyses : frequency comparisons, means comparisons, non-parametric testing, correlationsques, correlations • (Theoretical) introduction to regression modelling and classification trees
Learning outcomes	**At the end of this learning unit, the student is able to :** At the end of the course, students will be able to select and use basic quantitative methods to analyze linguistic phenomena with the help of a statistical software tool. More practically, they will be able to use the statistical software tool R to explore linguistic data (descriptive statistics), represent data visually, and select the most appropriate statistics (among basic approaches) given the structure of their dataset They will also be able to understand a scientific article based on more sophisticated statistical techniques (e.g. regression modelling), and to critically examine the results of a quantitative study.
Evaluation methods	The evaluation will be twofold: • Continuous assessment (30%): e.g. participation in class activities, tests and exercises • Written exam (70%) In case of resit, the evaluation will be based on a written exam only (100%)
Teaching methods	The teaching method will be a mix of traditional lectures and exercises
Content	Quantitative analysis of linguistic data with R (descriptive statistics, inferential statistics, data visualization)
Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=12097
Bibliography	• Field, A. et Miles, J. and Field, Z. (2012). *Discovering Statistics Using R. London : Sage Publications.* • Gries, St. Th. 2013. *Statistics for Linguistics with R. A Practical Introduction*. 2nd edition. Berlin: De Gruyter Mouton. • Howell, D. C. (2016). *Fundamental statistics for the behavioral sciences*. Nelson Education.
Other infos	This course requires a good command of English (receptive and productive skills).
Faculty or entity in charge	FIAL

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Linguistics	LING2M	10		🔍