

10.0 credits

22.5 h

1 + 2q

Teacher(s) :	Levshina Natalia ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Inline resources:	/
Prerequisites :	One course of introduction to linguistics.
Main themes :	Data management in R: vectors, matrices, data frames, etc. -- quantitative analysis of linguistic data: classical univariate, bivariate and multivariate techniques; descriptive and inferential statistics; contemporary methods of analysis of language variation and change (distinctive collexeme analysis, SemanticVector Spaces, motion charts) -- data visualization in R
Aims :	At the end of the course, the student will be able to select and use appropriate quantitative methods to analyze linguistic phenomena with the help of R. More practically, he will be able to use and understand the R code provided in the course and adjust it for the purposes of his own research. He will also be able to represent his data visually with the help of R. <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods :	continuous assessment (exercises) + presentation of own projects
Teaching methods :	lectures and practical case studies
Content :	The organization of the course is twofold : 1. Principles of empirical investigation in linguistics 2. Introduction to R: main data types, functions and graphical tools 3. Numerous case studies that deal with different research questions (semantics, constructions, language variation, diachronic linguistics, etc.), data types and statistical techniques. 4. Presentation and discussion of individual projects
Bibliography :	Baayen, R. H. 2008. Analyzing Linguistic Data: A Practical Introduction to Statistics Using R. Cambridge: Cambridge University Press. Crawley, Michael J. The R book. Chichester: John Wiley. Gries, St. Th. 2013. Statistics for Linguistics with R. A Practical Introduction. 2nd edition. Berlin: De Gruyter Mouton. Levshina, N. (To appear) How to do Cognitive Linguistics with R. Amsterdam: John Benjamins. Teator, P. 2011. R Cookbook. Sebastopol, CA: O'Reilly Media
Other infos :	Support : a website with slides, R code, exercises and keys.
Cycle and year of study :	> Master [120] in Linguistics
Faculty or entity in charge:	FIAL