

Georg-August-Universität Göttingen		6 C 4 WLH
Module M.FES.115: Statistical Data Analysis with R		
Learning outcome, core skills: Introduction to R as programming language for beginners, statistical data analysis including explorative data analysis, plotting, basic tests (t, F, non-parametric), ANOVA, simple linear regression, multiple regression, analysis of residuals, ANCOVA, non-linear regression, glms with focus on logistic regression, short introduction to tidyverse and ggplot; always including introduction to theory and to practical implementation in R.		Workload: Attendance time: 56 h Self-study time: 124 h
Course: M.FES.115.Lec Statistical Data Analysis with R (Lecture, Exercise)		4 WLH
Examination: Presentation (approx. 15 min.) with written outline (max. 10 pages) M.FES.115.Mp: Statistical Data Analysis with R		6 C
Examination requirements: <ul style="list-style-type: none"> • Import data into a statistics software and perform an explorative data analysis • Display data graphically • Select appropriate statistical approaches or models for data analysis • Discuss the advantages and disadvantages of statistical approaches or models • Apply statistical approaches or models to given data • Explain and test assumptions of statistical approaches or models • Interpret the results of the data analysis • Suggest meaningful follow-up analyses • Present and explain the procedures involved in a statistical data analysis 		
Admission requirements: none	Recommended previous knowledge: none	
Language: English	Person responsible for module: Dr. Katrin Mareike Meyer	
Course frequency: each winter semester	Duration: 1 semester[s]	
Number of repeat examinations permitted: cf. examination regulations	Recommended semester:	
Maximum number of students: 30		
Additional notes and regulations: 30 students are only possible if a corresponding number of computers is available		