

Georg-August-Universität Göttingen Module M.iPAB.0014: Data Analysis with R	3 C 2 WLH
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Learning outcome, core skills: The students will be able to use methods provided by the statistical package R to perform the analysis of data sets that are typical in the life sciences. A core skill is the identification, usage and evaluation of online resources (e.g. packages and data sets).	Workload: Attendance time: 28 h Self-study time: 62 h
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Course: M.iPAB.0014.C Data Analysis with R (Block course, Lecture, Exercise) <i>Contents:</i> The fundamental concepts of the programming package R will be presented and deepened during practical exercises. Statistical methods will be recapitulated if necessary. Special emphasis is put on visualization methods. <i>Literature:</i> Wiki-book "R programming" https://en.wikibooks.org/wiki/R_Programming "R for Beginners" by Emanuel Paradis https://cran.r-project.org/doc/contrib/Paradis-rdebuts_en.pdf "R tips" by Paul E. Johnson http://pj.freefaculty.org/R/Rtips.pdf	2 WLH
Examination: Written examination (90 minutes) M.iPAB.0014.Mp: Data Analysis with R Examination requirements: Ability to analyze typical data sets with the statistical package R and interpretation of the results.	3 C

Admission requirements: none	Recommended previous knowledge: Knowledge of basic statistics concepts
Language: English	Person responsible for module: Thomas Martin Lange
Course frequency: each semester	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester: Master: 4
Maximum number of students: 24	