Module Name	Module Code
Practical Data Management	AEF-agr848
Module Coordinator	
Dr. agr. Georg Hörmann	
Organizer	
Institut für Natur- und Ressourcenschutz	
Faculty	
Faculty of Agricultural and Nutritional Sciences	
Examination Office	
Prüfungsamt Agrar- und Ernährungswissenschaftliche Fakultät	

ECTS Credits	6
Evaluation	Graded
Duration	1 semester
Frequency	Takes place every semester
Workload per ECTS Credit	30 hours
Total Workload	180 hours
Contact Time	60 hours
Independent Study	120 hours
Teaching Language	English

Recommended Requirements			
Basic PC knowledge, basic statistics, practical experience with R			
Module Courses			
Course Type	**Course Name**	**Compul-sory/Optional**	**SWS**
Exercise	Practical Data Management	Compulsory	4
Prerequisits for Admission to the Examination(s)			

Examination(s)				
Examination Name	**Type of Examination**	**Evaluation**	**Compulsory / Optional**	**Weighting**
Protocol: Practical Data Management	Protocol	Graded	Compulsory	100

Further Information on the Examination(s)

last lecture winter semester 2017/18
1.+2. period in summersemester
1. period in wintersemester

1.+2. period in wintersemester
1. period in summersemester
examiner: Dr. G. Hörmann
QIS: 67000 with number of Examination 67010

Course Content

Practical Data management, use of the statistical package R, management of projects for statistical analysis, teaching of complex statistical problems. The protocol consists of a description of a project, own projects (Thesis work, projects etc.) are excluded.

Learning Outcome

The students learn “on the job” how to carry out real world projects of data management and statistical data analysis together with other students. They are able to plan, execute and document projects with the programming environment “R” and they are able to teach the results to other students. The typical content of the course is that experienced students help other students with their data management problems. The students present their problems, try to solve it in cooperation with teachers and thus get an understanding of a practical data analysis in science. The whole process is supervised by scientists/teachers which are present during the single lessons.

Reading List

R-Website: www.r-project.org
David M. Lane, 2016: Hyperstat Online Textbook, http://www.davidmlane.com/hyperstat/

Kabacoff, R., 2015: R in Action: Data Analysis and Graphics with R, 2nd.
Edition, Manning Publications.
Logan, M., 2010: Biostatistical Design and Analysis Using R: A Practical Guide, Wiley-Blackwell Publ.
Hedderich, J., Sach, L., 2015: Angewandte Statistik: Methodensammlung mit R, 15. Auflage, Springer Verlag

Additional Information

last lecture winter semester 2017/18
Maximum number of participants: 20
Enrollment by OLAT within workdays Monday through Friday in the 1nd week of the 2. audit period of the preceding semester. Following information are necessary:
matriculation number
last name
first name
striven degree
study program
stu-Email

The allocation of the places takes place in the 2nd week of the 2. audit period of the preceding semester.
Acceptance of the place by students only through participation at the first day of the course.
Students without a place can get a place at the first day of the course by move-up procedure.

Use	Compulsory / Optional	Semester
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agricultural Economics and Agribusiness # specific field of study: Agricultural Economics, (Version 2008)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agricultural Economics and Agribusiness # specific field of study: Agribusiness, (Version 2008)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2008)	Optional	1.
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2017)	Optional	1.
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2013)	Optional	1.
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2008)	Optional	1.
Master, 1-subject, Nutritional and Food Science, (Version 2013)	Optional	1.
Master, 1-subject, Nutritional and Consumer Economics, (Version 2017)	Optional	1.
Master, 1-subject, Nutritional and Consumer Economics, (Version 2013)	Optional	1.
Master, 1-subject, Nutritional Sciences and Household Economics, Nutritional and Consumer Economics, (Version 2008)	Optional	1.
Master, 1-subject, Nutritional Sciences and Household Economics, Nutritional Sciences, (Version 2008)	Optional	1.