

Georg-August-Universität Göttingen Module M.WIWI-QMW.0043: Interactive Representation of Statistical Methods	6 C 2 WLH
Learning outcome, core skills: The Students: <ul style="list-style-type: none"> • learn how to study current topics in applied statistics independently and how to make themselves familiar with the state of the art of current research, • learn how to work with a complex data set, • learn how to implement an interactive tool to represent both the data and the methodologies. 	Workload: Attendance time: 28 h Self-study time: 152 h
Course: M.WIWI-QMW.0043.Sem Interactive Representation of Statistical Methods (Seminar) Contents: In the seminar, the students will get an introduction to a programming concept (like e.g. RShiny), which allows to implement interactive online tools for presenting statistical models. They will then work on and present their implementation of a project which has been chosen at the beginning of the semester. It will entail both, a complex data set and an advanced statistical method.	2 WLH
Examination: Development of a prototype (development of a web application including a written documentation (max. 15 pages) and a presentation of the project outcomes (approx. 25 minutes)) M.WIWI-QMW.0043.Mp: Interactive Representation of Statistical Methods Examination prerequisites: Regular attendance	6 C
Examination requirements: The students demonstrate their ability to implement statistical models and results in an accessible way and to document their findings in a corresponding presentation as well as a report.	
Admission requirements: none	Recommended previous knowledge: M.WIWI-QMW.0002 Advanced Statistical Inference (Likelihood & Bayes), M.MED.0001 Linear Models and their Mathematical Foundations, M.WIWI-QMW.0021 Introduction to Statistical Programming
Language: English	Person responsible for module: Prof. Dr. Elisabeth Bergherr
Course frequency: each winter semester	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester: 2 - 4

Maximum number of students:	
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15	
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