

Georg-August-Universität Göttingen Module M.WIWI-QMW.0027: Advanced Meta-Research in Economics	6 C 4 WLH
Learning outcome, core skills: The students learn why replications are needed to improve the reliability of published empirical findings. Moreover, they learn to replicate an empirical study by using the statistical software R. To this end, they gain knowledge in the econometric methods used in the empirical study that is replicated and learn how these methods are implemented in R.	Workload: Attendance time: 56 h Self-study time: 124 h
Course: M.WIWI-QMW.0027.Lec Advanced Meta-Research in Economics (Lecture) <i>Contents:</i> The lecture discusses the importance of replications in improving the reliability of published empirical findings. Sources of biases in empirical findings are analyzed and empirical evidence of these biases is presented and discussed. An overview of replications is given including a discussion of the recent replication crisis in economics. Characteristics of replications in economics are discussed highlighting different types of replications. Topics: <ol style="list-style-type: none"> 1. Incentives in academic publishing 2. p-hacking, HARKing and publication bias 3. Replications in economics 4. Empirical evidence of biases 5. Models of empirical research 	2 WLH
Course: M.WIWI-QMW.0027.Ex Advanced Meta-Research in Economics (Exercise) <i>Contents:</i> The exercise starts with an introduction to the statistical software R. The exercise follows the topics discussed in the lecture and deepens the understanding of these topics by providing and discussing tasks to be solved in R.	1 WLH
Course: M.WIWI-QMW.0027.Tut Advanced Meta-Research in Economics (Tutorial) <i>Contents:</i> The students replicate a published article using the statistical software R. The replication tutorial offers help in acquiring knowledge of the econometric methods used in the articles that have to be replicated. Students can also get help in how these methods can be implemented in R.	1 WLH
Examination: Practical examination (max. 10 pages) M.WIWI-QMW.0027: Advanced Meta-Research in Economics	6 C
Examination requirements: The students select articles from a list or suggest articles that they then replicate using the statistical software R. They write a report of their replications discussing their findings in the light of the concepts introduced in the lecture and exercise. Both verifications of the published findings and careful sensitivity analyses are implemented. The R code is part of the examination.	

Admission requirements: none	Recommended previous knowledge: M.WIWI-QMW.0004 Econometrics I
Language: English	Person responsible for module: Prof. Dr. Helmut Herwartz Dr. Stephan Bruns
Course frequency: each summer semester	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester: 2 - 3