

Georg-August-Universität Göttingen Module M.WIWI-QMW.0013: Applied Econometrics		6 C 4 WLH
Learning outcome, core skills: This course enables students to: • independently develop empirical analyses on predetermined subjects including data search, model choice, software choice, discussion of results, • understand the theoretical background of specific analysis methods for (macro)economic data, • apply statistical methods to data, • possible applications: econometric validation of economic models, quantification of model parameters, prediction.		Workload: Attendance time: 56 h Self-study time: 124 h
Course: M.WIWI-QMW.0013.Lec Applied Econometrics (Lecture) <i>Contents:</i> Discussion of relevant statistical concepts for concrete economic models (purchasing power parity, money demand, Fisher hypothesis, (dynamic) capital asset pricing model, etc.), introduction to the economic model and exemplary data analysis. The studied models can differ by the semester.		2 WLH
Course: M.WIWI-QMW.0013.Ex Applied Econometrics (Exercise) <i>Contents:</i> Based on the contents of the lecture: data preparation and model implementation with statistical software (e.g. R or Matlab), discussion of results, theoretical exercises		2 WLH
Examination: Term paper (max. 15 papers) or written examination (90 minutes) M.WIWI-QMW.0013.Mp: Applied Econometrics		6 C
Examination requirements: In the case study the students show their ability to search data for a given economic problem and analyze the question by means of appropriate econometric methods. The examination includes a detailed description of the problem setting, proposed solution and discussion of results. Depending on the specific topic small simulation studies can be a further assignment. The written exam covers contents of the lecture and the exercises. The students show their ability to analyze economic problems applying specific statistical techniques, can derive and interpret properties of the models, and can decide on appropriate models for given data. The students are able to implement analyses using statistical software and to interpret the corresponding results.		
Admission requirements: none	Recommended previous knowledge: Basic knowledge in statistics M.WIWI-QMW.0004 Econometrics I M.WIWI-QMW.0009 Introduction to Time Series Analysis	
Language: English	Person responsible for module: Prof. Dr. Helmut Herwartz	

Course frequency: once a year	Duration: 1 Semester
Number of repeat examinations permitted: twice	Recommended semester: 3 - 4