MW65: Advanced Econometrics 2				Study programme	M
Module type:	**ECTS points:**	**Workload:**	**Semester of study:**	**Duration of the module:**	
Compulsory Elective	8	240	2nd or 4th	one semester	

Courses:	**Contact hours:**	**Independent study:**	**Planned group size:**
Advanced Econometrics II incl. exercise (4 semester hours per week)	60h	180h	20

Learning objectives and competences:

After completing the module, students are able to

- classify and apply advanced econometric methods and models;
- see links to other disciplines such as statistics, mathematics, and computer science;
- adapt general econometric methods to different estimation problems;
- independently conduct their own microeconometric analyses at the level of top international research.

The acquired knowledge is applied actively in exercise tasks using standard software. This promotes the ability to solve statistical problems independently as well as to reflect on them in a critical way.

Key competences:

- scientific work
- critical thinking
- analytical skills
- willingness to learn and perform
- oral and written communication skills

Course content:

Course 1: Advanced Econometrics II

1. Maximum Likelihood Revisited
2. Simulation Based Estimation
3. Discrete Choice Models
4. Nonlinear Panel Data
5. Nonlinear Instrumental Variables Methods
6. Non- and Semiparametric Methods

Course 2: Exercise in Advanced Econometrics II

Cf. Contents of course 2.

Language:

The course language of all events is English.
Teaching forms:
Lecture, group work, independent study.
Applicability of the module:
MSc VWL, MSc Economics, MSc Business Administration (BWL).
Requirements for participation:
Admission to the Master's study programmes in VWL, Economics or Business Administration. Basic knowledge of statistics and econometrics from the Bachelor's study programme and MV04 is required.
Forms of examination:
The final module examination takes place in the form of another examination output.
Requirements for the award of ECTS points:
Passing the final module examination. A final module examination is successfully passed if the grade is at least "sufficient" (4.0).
Frequency:
The course takes place in the summer semester.
Significance of the grade for the final grade:
This module is graded and taken into account when calculating the overall grade of your Master's degree. For more detailed information on the calculation of the overall grade, please refer to the applicable examination regulations of your respective study programme.
Module supervisors and full-time lecturers:
Prof Dr Florian Heiß and research assistants of the chairs.
Other information:
Up-to-date information can be found on the website of the module supervisor.

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