

MV08: Advanced Econometrics				Study program	M
Module type:	ECTS points:	Workload:	Semester of study:	Duration of the module:	
Compulsory	6	180	2 nd , 3 rd or 4 th	one semester	
Courses:			Contact hours:	Independent study:	Planned group size:
Course 1: Advanced Econometrics (2 semester hours per week)			30h	60h	20
Course 2: Tutorial in Advanced Econometrics (2 semester hours per week)			30h	60h	20
Learning objectives and competences:					
<p>Course 1: Advanced Econometrics</p> <p>After completing the course, students are able to</p> <ul style="list-style-type: none"> - understand the formal basis of econometric methods; - classify and apply advanced microeconomic methods; - conduct their own econometric analyses at the level of top international research. <p>Course 2: Exercise in Advanced Econometrics</p> <p>The knowledge acquired from course 1 is actively applied in exercise tasks using statistical application software. This promotes the ability to solve statistical problems independently as well as to reflect on them in a critical way.</p>					
Key competences:					
<ul style="list-style-type: none"> - scientific work - independent work - critical thinking - analytical skills - willingness to learn and perform - oral and written communication skills 					
Course content:					

Course 1: Advanced Econometrics

1. OLS, Linear Panel Data Methods and Linear IV: Recap
2. Maximum Likelihood
3. Limited Dependent Variables
4. Treatment Effects and (Natural) Experiments
5. Matching Techniques
6. Advanced Panel Data Methods

Course 2: Tutorial in Advanced Econometrics

Cf. Contents of course 1.

Language:

The course language of all courses is English.

Teaching forms:

Lecture, group work, independent study.

Applicability of the module:

M.Sc. Economics.

Requirements for participation:

Admission to the Master's study program in Economics. Basic knowledge of statistics and econometrics from the Bachelor's study program, 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 courses take place every 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 program.

Module supervisors and full-time lecturers:

Prof Dr Joel Stiebale and research assistants at DICE.

Other information:

You can find current information in the ILIAS and the website of the DICE.

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