



Module title					Abbreviation
Econometrics 1 12-M-OE1-141-mo1					
Module coordinator				Module offered by	
holder of the Chair of Econometrics			Faculty of Management and Economics		
ECTS Method of grading		Only after succ. compl. of module(s)			
5	nume	rical grade			
Duration Module level		Other prerequisites			
1 semester graduate					
Contents					
This module deals with the basic concept and methodology of the ordinary least squares (OLS) regression mo- del. In particular, model assumptions and properties are discussed and formally motivated. In addition, the mo- dule examines linear restrictions on the models explanatory variables as well as dummy variables and introdu- ces tests to verify simple and multiple linear restrictions. Linear algebra is used as formal aid. Outline of syllabus: 1. Random variables 2. Important distributions 3. Point estimates 4. Simple linear regression model 5. Model assumptions 6. Model properties 7. Simple hypothesis tests 8. Multiple linear regression model 9. Linear restrictions 10. Dummy variables					
Intended learning outcomes					
The students acquire knowledge of the basics, concepts and methods used in the classical linear regression mo- del and understand the role of econometrics in science and data analysis. In particular, they learn how to analy- tically derive, calculate and interpret the coefficients, standard errors and p-values of a classic regression output of the multiple regression model. Furthermore, they are able to state and motivate formally the assumptions and properties of OLS and know how to deal with transformed and dummy variables. Additionally, students are able to test multiple linear restrictions on the parameters and are able to apply these tests to real economic, business and social science questions. The competences acquired in this course serve as a prerequisite for "Econometrics II", "Econometrics III", "Micro- econometrics" und "Financial Econometrics".					
Courses (type, number of weekly contact hours, language — if other than German)					
V + Ü (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (60 minutes) or b) term paper (approx. 15 pages) Language of assessment: German, English creditable for bonus					
Additional information					

Workload

Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Business Information Systems (2014) Master's degree (1 major) Business Management (2014) Master's degree (1 major) Economics (2014)

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