

Module title		Abbreviation
Computer Lab in Regression Analysis		12-CQW-152-m01
Module coordinator		Module offered by
Holder of the Chair of Econometrics		Faculty of Business Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This course considers different distributions, their characteristics, simulation experiments as well as the linear regression model. The main softwares used are Excel and Gretl. The course starts by reviewing different distributions. Students learn how distributions behave when their respective parameters change. Students also learn to generate samples of these and estimate as well as interpret the descriptive statistics using Excel. The second part of the course deals with the linear regression model and its application to some empirical data sets. The students are introduced to empirical studies and the open-source software Gretl. At the end of the course an overview is given of possible problems with empirical specifications in the context of the linear regression models. The students will be able to estimate a linear regression model using Gretl or Excel, interpret the results and will be aware of possible shortcomings in the data.</p>		
Intended learning outcomes		
<p>After finishing this course students acquired several skills. They</p> <ul style="list-style-type: none"> (i) got an overview of several distributions; (ii) know how to simulate those distributions in MS Excel and are able to estimate and interpret the related theoretical moments; (iii) can perform smaller simulations in Excel; (iv) got to know a variety of different Excel commands which are important for statistical working; (v) are introduced to the linear regression analysis, can perform it in Excel and Gretl and know how to interpret the results. 		
Courses (type, number of weekly contact hours, language – if other than German)		
P (2)		
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 (approx. 60 minutes) or b) term paper (approx. 10 pages) and presentation (approx. 20 minutes), weighted 2:1		
Allocation of places		
20 places. (1) Should the number of applications exceed the number of available places, places will be allocated by lot among all applicants irrespective of their subjects. (2) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		

Bachelor' degree (1 major) Business Management and Economics (2015)
Bachelor' degree (1 major) Econometrics (2015)
Bachelor' degree (1 major) Business Information Systems (2015)
Master's degree (1 major) China Business and Economics (2016)
Bachelor' degree (1 major) Business Information Systems (2016)
Bachelor' degree (1 major) Econometrics (2017)
Master's degree (1 major) China Business and Economics (2019)
Bachelor' degree (1 major) Business Information Systems (2019)
Bachelor' degree (1 major) Business Management and Economics (2019)
Bachelor' degree (1 major) Business Information Systems (2020)