Name:	
Comp	ater Lab in Regression Analysis - Applied Econometrics
Responsit	le:
Professo	Martin Kukuk, Dr Tamara Schamberger, Chair of Econometrics
Program:	Type: Term: ECTS:
Bachelor	Lecture Winter/Summer 5 CP
Contents	& Objectives:
	se considers different distributions, their characteristics, simulation experiments, as well as the pression model. The main software used are Excel and Gretl.
distributi	se starts by reviewing different distributions using a so-called shiny-app that lets the user see how ons behave when their respective parameters change. They also learn to generate samples of d estimate as well as interpret the descriptive statistics using Excel.
	nd part of the course deals with the linear regression model and its application to some empirica . The students are introduced to empirical studies and the open-source software Gretl.
context	nd of the course an overview is given of possible problems with empirical specifications in the of the linear regression model. The students are able to estimate a linear regression using R or erpret the results, and be aware of possible shortcomings in the data.
Prerequis	tes:
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	attending this course should know about basic statistics. Further prerequisites are not required
Course St	ucture:
Week	Content
1-3	Introduction to statistical inference, distributions and moments

1-3	Introduction to statistical inference, distributions and moments
4-6	Simulations and multivariate normality
7-9	Introduction to linear regression analysis
10-13	Transformed depend and independent variables, interaction terms, multicollinearity, and heteroskedasticity

Literature:

Wooldridge, J.: Introductory Econometrics, Cengage Learning.

Grading:

There will be an exam at the end of the semester.

Contact:

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