

<b>PM 8: Introduction to Econometrics</b>		Credits: 6	
<u>Learning objectives:</u>			
The students learn to quantify and examine economic relationships employing statistical methods based on observed data. They acquire an overview of basic methods of regression analysis, they know the effects of deviations from the modelling assumptions on estimation and statistical tests of regression parameters, and they become familiar with suitable coping strategies. They have the ability to independently perform regression analyses based on practical examples and adequately interpret regression results.			
Preconditions: module "Statistics I" and "Statistics II"			
Teaching formats	Hours per week, workload in hours	Credits, preconditions for granting	Topics, contents
Lecture Introduction to Econometrics	2 SWS  60 hours 25 hours presence in class 35 hours preparation and learning	2 credits, participation	Basic econometrics models and methods: multiple linear regression model, heteroscedasticity, and autocorrelation, parameter estimation with least-squares, generalized least square estimation and maximum likelihood method. Testing hypotheses and confidence regions.
Tutorial Introduction to Econometrics	2 SWS  60 hours 25 hours presence in class 35 hours preparation and learning		Consolidation of the lecture content; application of econometric methods with exercises and empirical examples; introduction to econometrics application software
Final Exam	60 hours Written exam Introduction to Econometrics (90 min) and preparation	2 credits, pass	

Duration	<input checked="" type="checkbox"/> 1 semester	<input type="checkbox"/> 2 semester
Start of module	<input type="checkbox"/> winter term	<input checked="" type="checkbox"/> summer term