

## Master of Economics

<b>Lecture Title:</b>	<b>Econometrics III</b>		
<b>Lecturer:</b>	Leopold Sögner		
<b>Lecture Code:</b>	017 914	<b>ECTS:</b>	3
<b>Term:</b>	Fall 2015	<b>Contact hours:</b>	20
<b>Lecture Dates:</b>	November 3 <sup>rd</sup> , 2015 – January 26 <sup>th</sup> , 2016		
<b>Final Exam:</b>	TBA	<b>Frequency of lecture:</b>	Once a week
<b>Prerequisites:</b>	First year courses: Mathematics I, Mathematics II, Statistics and Econometrics I and II		
<b>Language of instruction:</b>	English		
<b>Contact information</b>	Leopold Sögner Institute for Advanced Studies Department of Economics and Finance 102 Josefstädter Straße 39, 1080 Vienna <b>Telephone:</b> 1 59991-182 <b>Email:</b> soegner@ihs.ac.at		
<b>Office hours</b>	By appointment		
<b>Course website</b>	<a href="https://cecnet.tuwien.ac.at/">https://cecnet.tuwien.ac.at/</a>		
<b>Learning Objectives:</b> (What are the intended learning outcomes? Which skills will be acquired?)	<i>The goal of the course is to develop a detailed understanding of the advanced econometrics methods with a special emphasis on panel data methods. The lecture includes a discussion of the main estimation approaches, including least squares, instrumental variables, generalized method of moments and maximum likelihood approaches.</i>		
<b>Content:</b> (Which professional competence and which contents will be imparted?)	<i>The course covered the following topics:</i> <ul style="list-style-type: none"> <li>• <i>Refinements of Linear Regression</i></li> <li>• <i>Instrumental Variables</i></li> <li>• <i>Static Panel Data Models</i></li> <li>• <i>Dynamic Models with variable intercepts</i></li> <li>• <i>Generalized Method of Moments</i></li> </ul>		
<b>Teaching Approach:</b> (Description of the learning and teaching methods)	<i>The course consists of lectures and homework assignments to be discussed in class. Furthermore students are required to implement some of the econometric methods discussed in class in some appropriate software, like e.g. MATLAB or R.</i>		
<b>Workload:</b> (Definition of workload (ECTS), divided in pre-modules (e.g. pre-readings), core-modules)	-		

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(contact hours), post-modules (e.g. case studies)):	
<b>Required literature:</b> (scripts, books, articles, cases, papers)	<i>Parts of the material will be provided as slides and/or lecture notes.</i>
<b>Recommended literature:</b> (books, articles, cases, papers)	<p>Baltagi, Badi H.: <i>Econometric Analysis of Panel Data</i>, 4<sup>th</sup> edition, Wiley, Chichester, UK. 2008.</p> <p>Hsiao, Cheng: <i>Analysis of Panel Data</i>, 3<sup>rd</sup> edition, Cambridge University Press 2015.</p> <p>Wooldridge, Jeffrey: <i>Econometric Analysis of Cross Section and Panel Data</i>, MIT Press 2010</p>
<b>Special features:</b> (e.g. excursion, guest speaker):	
<b>Mode of examination:</b> (Mode of examinations and tests (e.g. oral or written examination, lecture, homework, papers, class participation)):	<i>Written examination</i>
<b>Grading:</b>	<p><i>The final grade will be composed of three components:</i></p> <ul style="list-style-type: none"> <li>▪ <i>80% of the grade will be due to the results of the written final examination</i></li> <li>▪ <i>20% of the grade relate to the exercises</i></li> </ul>