Master of Economics

Lecture Title:	Econometrics I		
Lecturer:	Justinas Pelenis		
Lecture Code:	017 912	**ECTS:**	6
Term:	Winter term 2014	**Contact hours:**	40
Lecture Dates:	Jan 7th – March 25th, 2014		
Final Exam:	TBA	**Frequency of lecture**:	Twice a week
Prerequisites:	Mathematics I, Statistics I		
Language of instruction:	English		
Contact information	Justinas Pelenis Institute for Advanced Studies Room N-309 Stumpergasse 56 1060 Wien		
	Telephone: 1 59991 143	**Email**: pelenis@ihs.ac.at	
Office hours			
Course website	http://elaine.ihs.ac.at/~pelenis/teaching.html		
Learning Objectives: (What are the intended learning outcomes? Which skills will be acquired?)	The key goal of the course is to develop a detailed understanding of the linear regression model and its applications to economics analysis. Furthermore, introduction to asymptotic theory, instrumental variables, generalized method of moments and maximum likelihood topics will be provided. A set of empirical exercises will be designed to further the potential usefulness of econometric methods to economic analysis.		
Content: (Which professional competence and which contents will be imparted?)	The course will cover the following topics: conditional expectation and projection, least squares regression, asymptotic theory for least squares, hypothesis testing, heteroscedasticity and generalized least squares, endogeneity, instrumental variables, generalized method of moments, limited dependent variables, maximum likelihood.		
Teaching Approach: (Description of the learning and teaching methods)	The course consists of weekly lectures and problem set assignments including empirical exercises.		
Workload: (Definition of workload (ECTS), divided in pre-modules (e.g. pre-readings), core-modules (contact hours), post-modules (e.g. case			

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studies)):	
Required literature: (scripts, books, articles, cases, papers)	Bruce E. Hansen (2013), "Econometrcis" http://www.ssc.wisc.edu/~bhansen/econometrics/Econometrics.pdf Paul A. Ruud (2000), "An Introduction to Classical Econometric Theory", Oxford University Press.
Recommended literature: (books, articles, cases, papers)	Fumio Hayashi (2000), "Econometrics", Princeton University Press. Joshua D. Angrist and Jorn-Steffen Pischke (2009), "Mostly Harmless Econometrics – An Empiricist's Companion", Princeton University Press.
Special features: (e.g. excursion, guest speaker):	
Mode of examination: (Mode of examinations and tests (e.g. oral or written examination, lecture, homework, papers, class participation)):	The grade will be determined by a combination of written exams and take-home assignments.
Grading:	Class participation, practice sessions, homework assignments: 20% Midterm exam: 25% Final written exam: 35% Empirical project: 20%

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