Master of Economics

Lecture Title:	**Econometrics II**		
Lecturer:	Wolfgang Scherrer		
Lecture Code:	017913	**ECTS:**	6
Term:	Spring Term 2014	**Contact hours:**	40
Lecture Dates:	April 25th- July 7th, 2014		
Final Exam:	July 2014	**Frequency of lecture**:	Twice a week
Prerequisites:	EMX I		
Language of instruction:	English		
Contact information	Ao. Univ.-Prof. Dr. Wolfgang Scherrer Institute for Mathematical Methods in Economics Research Unit Econometrics and Systemtheory Vienna University of Technology Argentinierstraße 8 / 105-2 A-1040 Vienna		
	Telephone: 01 58801 10522	**Email**: Wolfgang.Scherrer@tuwien.ac.at	
Office hours	By appointment.		
Course website			
Learning Objectives: (What are the intended learning outcomes? Which skills will be acquired?)	The goal of this course is to develop a detailed understanding of time series analysis and the ability to use the methods and concepts in applied problems.		
Content: (Which professional competence and which contents will be imparted?)	• basic concepts of time series analysis: stationary processes, autocovariance function, spectral representation of stationary processes • filters • linear models (MA, AR, ARMA models) • forecasting (from a finite/infinite past), empirical evaluation of forecasts • integrated procesess, unit root tests • cointegration		
Teaching Approach:	The course consists of lectures and homework assignments to be discussed		

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(Description of the learning and teaching methods)	in class.
Workload: (Definition of workload (ECTS), divided in pre-modules (e.g. pre-readings), core-modules (contact hours), post-modules (e.g. case studies)):	5 ECTS core modules, 1 ECTS project paper
Required literature: (scripts, books, articles, cases, papers)	Parts of the material will be distributed in the form of lecture notes (scripts)
Recommended literature: (books, articles, cases, papers)	P.J. Brockwell and R.A. Davis. Time Series: Theory and Methods. Springer series in statistics. Springer-Verlag, New York, 2nd edition, 1991. J.D. Hamilton. Time Series Analysis. Princeton, NJ: Princeton University Press, 1994. Johansen, S.: Likelihood-Based Inference in the Cointegrated Vector Autoregressive Model. Oxford, 1995.
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)):	Written examination, participation in practice sessions, homework (project paper), oral examination
Grading:	The final grade will be composed of the following components: Practice Sessions: (20%) Midterm Exam: (20%), Homework (project paper): (20%) Final oral examination: (40%)