Subject

UNIVERSAL PASSPORT RX[1]

 ${\sf Advanced\ Econometrics}({\sf Special\ Lectures}){\sf II}$

Advanced Econometrics(Special Lectures)II Subject

Instructor		KO IAT MENG		Instructor	KO IAT MENG				
Day · Period		Wed.4Period							
Eligible Participants		3.4							
Course Numbering		EAL-ECO391E							
Credit(s)		2Credits							
Course of Media Class									
Main Subjects									
Object and Summary of Class		This course is one-semester advanced level econometrics. The prerequisites are Econometrics I, II Econometrics I. This course should be regarded as the second PhD level econometrics course and asymptotic theories, with an emphasis in dependent samples. Time series econometric models will				d will cover various			
Goal of Study		The students are expected to have a much deeper understanding of modern econometrics. The topics covered in this course are essential for rigorous economic research either empirically or theoretically.							
Contents and Progress Schedule of the Class		Asymptotic Theory with Dependent Sample (Hayashi Chapter 2; Hansen Chapter 14; Hong Chapter 5 - Stationary and Ergodicity - Martingale and Martingale Difference - WLLN and CLT for ergodic time series Linear Time Series Regression Models (Hansen Chapter 14; Hong Chapter 5) - Static, (Autoregressive) Distributed Lag - Granger Causality ARMA Linear Processes & GARCH (Hamilton Chapter 3–5, 21; Hansen Chapter 14; Hayashi Chapter 6; Hong Chapter 9) - Wold decomposition - GARCH - MLE & QMLE Dynamic Panel Data Model (Hayashi Chapter 3; Hansen Section 17.36–17.42) - Generalized method of moment - Anderson-Hsiao, Arellano-Bond - Blundell-Bond VAR Model (Hamilton Chapter 11; Hansen Chapter 15) Unit-Root Econometrics (Hamilton Chapter 17; Hansen Chapter 16; Hayashi Chapter 9) - Unit root test Cointegration (Hamilton Chapter 19; Hansen Chapter 16; Hayashi Chapter 10) Note: We may not be able to cover all topics due to time constraints. The contents will be adjusted accordingly.							
Practical business									
Language Used in Course Evaluation Method		English Assignments (40%) Mid-term exam (30%) Final exam (30%)							
Textbook and References	3								
書名	著者	 首名	出版社	出版年	ISBN/ISSN	資料種別			
Time Series Analysis	Hamilton, James D.		Princeton University Press	1994					
Econometrics	Hansen, Bruce E.			2022					
Econometrics	Hayashi, Fumio		Princeton University Press	2000					
Foundations of Modern Econometrics: A Unified H Approach		ng, Yongmiao	World Scientific Pub Co	2020					

URL	Google Classroom: wdtexa2								
Preparation and Review	· ·	Completion of Econometrics I, II, and Advanced Econometrics I is recommended. Reviewing key concepts in regression analysis, asymptotic theory, and time series models will help students follow the course more smoothly.							
Attached File									
In Addition Lecture slides will be distributed. No single textbook will be exactly followed. Selected chapters will be listed as reading materials.		from different textbooks							
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One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.