UNIVERSAL PASSPORT RX[1]

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科目名	上級計量経済学特殊	朱講義丨	科目名/Subject	Advanced Econ	ometrics(Special Lectures)I	
担当教員	KO IAT ME	E N G	担当教員/Instructor	KO IAT MENG		
曜日・講時	水曜2限			'		
対象学年	3.4					
科目ナンバリング	EAL-ECO366E	EAL-ECO366E				
単位数	2単位	2単位				
メディア授業科目						
主要授業科目						
授業の目的と概要	should be regarded courses before end as linear regression extensively used in	This course is one-semester advanced level econometrics. The prerequisites are Econometrics I and II. This course should be regarded as the entry level econometrics course for PhD program. Students are required to complete the two courses before enrolling in this one. In this course, we will study econometrics in greater depth with both old topics (suc as linear regression) and new topics (such as panel data model). Mathematical tools, for example, vector and matrix, are extensively used in deriving estimations and inferences. Random sample (independence) is assumed in most of the topics. Dependent sample will be covered in Advanced Econometrics II.				
学修の到達目標		The students are expected to have a much deeper understanding of modern econometrics. The topics covered course are essential for rigorous economic research either empirically or theoretically.				
- Correct model spe Single-Equation Lin - Classical linear reg - Large sample linea - Hypothesis testing Single-Equation Lin - Generalized metho - Two-stage least so Multiple-Equation M - Seemingly Unrelat		der MSE criteria and Least Squares Estimator ecification near Model (Hansen Chapter 4–7, 9; Hong Chapter 3–4; Wooldridge Chapter 3–4) gression models: OLS and MLE ar regression models: OLS and Method of Moment g near Model with Instrumental Variables Estimation (Hansen Chapter 12 & 13; Wooldridge Chapter 5) od of moment under i.i.d. quares estimation Model (Hansen Chapter 11; Wooldridge Chapter 7) ted Regressions: OLS and GLS Effects Panel Data Models (Hansen Section 17.1–17.27; Wooldridge Chapter 10)				
実務・実践的授業						
使用言語 English						
Assignments (40%) 成績評価方法 Mid-term exam (30 Final exam (30%)						
教科書および参考書						
書名	著者名	出版社	出版年	ISBN/ISSN	資料種別	
Econometrics	Hansen, Bruce E.		2022			
Foundations of Modern Econometrics: A Unified Approach	Hong, Yongmiao	World Scientific Pub Co.	2020			
Econometric Analysis of Cross Section and Panel Data	Wooldridge, Jeffrey M.	MIT Press.	2002			

関連URL	Google Classroom: hoa3fmo
授業時間外学修	It is recommended that students have completed Econometrics I and II and have a basic understanding of linear algebra, probability theory, and statistical inference. Reviewing key concepts in regression analysis and matrix operations before the course will be helpful.
添付ファイル	
その他	Lecture slides will be distributed. No single textbook will be exactly followed. Selected chapters from different textbooks will be listed as reading materials.
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1単位の授業科目は、45時間の学修を必要とする内容をもって構成することを標準としています。 1単位の修得に必要となる学修時間の目安は、「講義・演習」については $15\sim30$ 時間の授業および授業時間外学修(予習・復習など) $30\sim15$ 時間、「実験、実習及び実技」については $30\sim45$ 時間の授業および授業時間外学修(予習・復習など) $15\sim0$ 時間です。