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# ②國玄東華大學

## 課 網 Course Outline

### 經濟學系博士班國際組

中文課程名稱 Course Name in Chinese	計量經濟分析(二)				
英文課程名稱 Course Name in English	Econometric Analysis (II)				
科目代碼 Course Code	ECD0210	班 別 Degree	博士班 Ph. D.		
修別 Type	必修 Required	學分數 Credit(s)	3.0	時 數 Hour(s)	3. 0
先修課程 Prerequisite			,	<u>'</u>	
	-	課程目標			
Course Objectives					
Econometric Analysis (II) is a required course in the Ph.D. program. Ph.D. students must acquire some basic trainings in econometrics to conduct empirical analysis and forecasting based on economic theory. This course is also a distinguishing characteristic in the Ph.D. program.					
	•	系教育目標 ication Object	tives		
Dept.'s Education Objectives  培育具獨立學術研究與專業能力之優秀經濟人才。  Foster potential talents with professional knowledge and empirical skills in economics.					
系專業能力 Basic Learning Outcomes			力相關性 Correlati between (	課程目標與系專業能 力相關性 Correlation between Course Objectives and	
	basic bearining out	Conco			Education
數理分析能力:通曉經濟學的高階理論技巧,應用數學與賽局解決經濟 議題的能力 A Mathematical analysis skills: Mastering in advanced application of mathematical theories and game theory in analyzing economic issues					
實證經濟分析能 訊蒐集、資料統 Empirical analy	實證經濟分析能力:通曉經濟學的高階實證技巧,善用資訊科技進行資訊蒐集、資料統計與計量分析。 Empirical analysis skills: Mastering in advanced application of statistics and econometrics in data collection and examination				
C Microeconomic p	力:通曉高階個體經濟學材 perspective: Thorough w theories and relevant a	nderstanding			

D	宏觀經濟之闡釋能力:通曉高階總體經濟學相關的理論與應用 Macroeconomic perspective: Thorough understanding of advanced macroeconomic theories and relevant application	
Е	樂活能力:具備適應現代社會的高階學養以及就業能力 Employment opportunities: Capabilities of advanced working on important policy and decision challenges in business and government	0
F	溝通表達能力:思路清晰,有能力與人溝通並撰寫高階專業研究報告 Communication skills: Having a clear mind and profound ability in presenting advanced professional academic research	

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

## 課程大綱

Course Outline

- 1. Nonlinear Regression Models
- 2. Nonspherical Disturbances: Generalized Linear Regression Model
- 3. Heteroscedasticity
- 4. Autocorrelation
- 5. Generalized Method of Moments Estimation
- 6. Panel Data
- 7. Computation-Intensive Methods
  Monte Carlo Methods and Bootstrapping
- 8. Quantile Regression

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

This course will be taught by the instructor in our department. We will use a notebook, a projector and a statistic software to teach this course.

#### 課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

This course will be a lecture format and we will give students several classroom practices about empirical applications.

其他

Miscellaneous