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## ②国玄東華大學

## 課 網 Course Outline 經濟學系碩士班大數據分析與產業經濟組

中文課程名稱 Course Name in Chinese		計量經濟理論					
英文課程名稱 Course Name in English		Econometric Theory					
科目代碼 Course Code		EC50450	班 別 碩士班 Degree Master's				
修別 Type		必修 Required	學分數 Credit(s)	3.0 時數 Hour(s) 3.0		3. 0	
先修課程 Prerequisite							
課程目標 Course Objectives							
為本所必修課程之一,培養學生具備進行實證研究所需的統計方法與能力。							
系教育目標 D. 4 , D. 4 ;							
Dept.'s Education Objectives							
培育具學術深造潛力及實務發展能力的優秀經濟人才。 1 Educate postgraduate students with professional knowledge and empirical skills for further academic research.							
系專業能力 Basic Learning Outcomes					力相關性 Correlat between Objectiv Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
數理分析能力:通曉經濟學的進階理論技巧,應用數學與賽局解決經濟							
A	議題的能力。 A Mathematical analysis skills: Mastering in intermediate application of mathematical theories and game theory in analyzing economic issues.						
В	實證經濟分析能力:通曉經濟學的進階實證技巧,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 intermediate application of statistics and econometrics in data collection and examination						
С	微觀經濟之闡釋能力:通曉進階個體經濟學相關的理論與應用。 Microeconomic perspective: Thorough understanding of intermediate microeconomic theories and relevant application						
D	宏觀經濟之闡釋能力:通曉進階總體經濟學相關的理論與應用。  Macroeconomic perspective: Thorough understanding of intermediate macroeconomic theories and relevant application					0	

- 無活能力:具備適應現代社會的進階學養以及就業能力。
   Employment opportunities: Capabilities of intermediate working on important policy and decision challenges in business and government
   溝通表達能力:思路清晰,有能力與人溝通並撰寫進階專業研究報告。
   Communication skills: Having a clear mind and capability in
- 圖示說明Illustration : 高度相關 Highly correlated ○中度相關 Moderately correlated

writing an intermediate professional academic report

## 課程大綱 Course Outline

- 1. 矩陣代數
- 2. 機率及分配
- 3. 統計檢定
- 4. 單變量及多變量線性迴歸
- 5. 殘差分析及變異數檢驗
- 6. 二元應變數模型
- 7. 時間序列模型

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.)

筆記型電腦

投影機

統計軟體

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

本課程以講授方式進行,輔以課堂實作練習

其他

Miscellaneous