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課 綱 Course Outline

林 侧 Course outline								
經濟學系碩士班國際組								
中文課程名稱 Course Name in Chinese	計量經濟分析(一)							
英文課程名稱 Course Name in English	Econometric Analysis (I)							
科目代碼 Course Code	ECM5100	班 別 Degree	碩士班 Master's					
修別 Type	必修 Required	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0			
先修課程 Prerequisite								
		課程目標 e Objectives						
in Economics depart conduct empirical a	s (I) is a required coment must acquire some analysis and forecasting ang characteristic in t	e basic trair ng based on e	nings in econo economic theor	ometrics in o	order to			
	系	教育目標						
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								

Educate postgraduate students with professional knowledge and empirical skills for further academic research.

	系專業能力 Basic Learning Outcomes	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	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 議題的能力。 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.	

	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。					
D	Macroeconomic perspective: Thorough understanding of					
	intermediate macroeconomic theories and relevant application.					
	自我調整適應社會之能力:具備適應現代社會的學養以及就業能力。					
E	Employment opportunities: capabilities of 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。					
F	Communication skills: Having a clear mind and capability in	\bigcirc				
	writing an intermediate professional academic report.					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
	課程大綱					
	Course Outline					
1.	1. Matrix Algebra					
2.	2. Probability and Distribution Theory					
3.	. Statistical Inference					
4.	. The Classical Linear Regression Model					
l .	. Functional Form, Nonlinearity, and Specification					
	. Data Problems					
l	. Heteroscedasticity					
8.	Autocorrelated Disturbances					
	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.)						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
其他						
Miscellaneous						