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②图玄束華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	計量經濟學AA				學年/學期 ademic Year/Se	105/1			
課程名稱(英文) Course Name in English	Econometrics	2conometrics							
科目代碼 Course Code	FIN_5010AA	系級 Department 碩士 & Year			開課單位 rse-Offering epartment	財務金融學系			
修別 Type	必修 Required	學分數/時間 Credit(s)/Hour(s)			3.0/3.0				
授課教師 Instructor	/林金龍								
先修課程 Prerequisite									

課程描述 Course Description

Econometric Analysis is the first-year graduate course in econometrics. The course aims at equipping the students with the knowledge for econometric theory and advanced empirical analysis, especially in the fields of finance and economics. Thus, the focus is placed upon methodology rather than proving statistical theorems. I adopt the book written by William H. Greene for its broad coverage and clear exposition.

While students may have only limited exposure to econometrics, I shall allocate parts of the course on regression mode specification and testing as is covered in Stock and Watson (2007). They are extremely useful in real empirical analysis

課程目標 Course Objectives

為本所必修課程之一,本所學生必須具有計量經濟學的訓練才能,根據經濟理論作實證分析,預測等分析,為本所特色之一。

	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	具備財務金融的分析能力	•
В	具備企業財務管理專業能力	•
С	具備英語閱讀溝通協調等能力	•
D	具備獨立研究之技能,以進行財金議題研究	•
Е	具備個人投資理財能力	0
F	具備電腦程式運算及設計能力	•

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

授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	Introduction of econometrics and R (chap 1)	

2	Linear regressi	on model and	least	squares	(Chaps.	2, 3)				
3	Statistical pro	perties of th	he leas	t square	es estin	nator (c	hap 4)			
4	Inference and prediction (chap 5)									
5	Functional form and structural change (chap 6)									
6	Specification analysis and model selection (I) (Stock and Watson, chaps 7,9)									
7	Specification analysis and model selection (II) (Stock and Watson, chaps 7,9)									
8	Generalized regression model (chap 8)									
9	期中考試週 Midterm Exam									
10	Instrumental variables estimation (chap 12)									
11	panel data (I) (chap 5)									
12	panel data (II) (chap 5)									
13	Model for discrete choice (I) (Chap 23)									
14	Model for discrete choice (II) (Chap 23)									
15	Series correlation; model with lagged variables (chaps 19,20)									
16	Time series models (chap. 21)									
17	Maximum likelihood estimation (chap. 16)									
18	期末考試週 Final Exam									
		教	學 策	略 Tea	aching	Strategi	ies			
✓ 課堂講	授 Lecture		分組討	論Group	Discus	sion	多	觀實習	Field Tr	rip
✓ 其他Mi	scellaneous: terr	n paper								
		學期成績計	算及多元	.評量方:	弋 Gradi	ng & As	sessmen	its		
香	 己分項目	配分比例				多元評量		ssessme	nts	
	Items	Percentage	測驗 會考	實作觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 G Performance										
期中考成績 Midterm Exam		30%	~							
期末考成績 Final Exam										
作業成績 Homework and/or Assignments		30%								
其他 Miscellaneous (term paper)		40%				~				
		Grading & A		P量方式。 ents Sup			ruction	ıs		

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

William H. Greene, Econometric Analysis, 7th ed., 2012 New Jersey: Prentice Hall

James H. Stock and Mark Watson, Introduction to Econometrics, updated 3rd edition, Boston: Addison-Wesley, 2015

Bruce E. Hansen, Econometrics, available at

http://www.ssc.wisc.edu/~bhansen/econometrics/Econometrics.pdf

Grant V. Farnsworth (2008) Econometrics in R. PDF and a browsable HTML version files are available at www.r-project.org

Christian Kleiber and Achim Zeileis, Applied Econometrics with R, Springer, 2008

課程教材網址(教師個人網址請列在本校內之網址)

Teaching Aids & Teacher's Website (Personal website can be listed here.)

faculty.ndhu.edu.tw/~jlin

其他補充說明(Supplemental instructions)