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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 Academic Year/Semester		105/1	
課程名稱(英文) Course Name in English	Econometrics			·				
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 Credit(s)/Hou		·	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 properties of the least squares estimator (chap 4)									
4	Inference and prediction (chap 5)									
5	Functional form and structural change (chap 6) Specification analysis and model selection (I) (Stock and Watson,									
6	Specification a chaps 7,9)	nalysis and m	nodel so	election	(I) (Stock a	nd Wats	on,		
7	Specification a chaps 7,9)	nalysis and m	nodel so	election	(II) (Stock	and Wat	son,		
8	Generalized reg	ression model	(chap	8)						
9	期中考試週 Midt	erm Exam								
10	Instrumental va	riables estin	nation	(chap 12	2)					
11	panel data (I)	(chap 5)								
12	panel data (II)	(chap 5)								
13	Model for discr	ete choice (l	(Cha	23)						
14	Model for discr	ete choice ((II) (CI	nap 23)						
15	Series correlat	ion; model wi	th lag	ged vari	ables (chaps 1	9, 20)			
16	Time series mod	els (chap. 21	1)							
17	Maximum likelih	ood estimatio	on (chaj	p. 16)						
18	期末考試週 Fina	1 Exam								
		教	與	, m	1 .	Q				
		秋	學策	略 Tea	aching	Strategi	ies			
✓ 課堂講	授 Lecture	秋 -		略 Tea 論Group				觀實習	Field T	rip
	授 Lecture scellaneous: <u>ter</u>							觀實習	Field T	rip
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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)