



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	計量經濟學(一)-迴歸分析AA	學年/學期 Academic Year/Semester	101/1
課程名稱(英文) Course Name in English	Econometrics I -Regression analysis		
科目代碼 Course Code	FIN_5010AA	系級 Department & Year	碩士 Course-Offering Department
開課單位 Department	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			
<p>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.</p> <p>While students may have only limited exposure to econometrics, I shall allocate parts of the course on regression model specification and testing as is covered in Stock and Watson (2007). They are extremely useful in real empirical analysis.</p>			
課程目標 Course Objectives			
<p>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</p>			
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		
2	Linear regression model and least squares		
3	Statistical properties of the least squares estimator (I)		
4	Statistical properties of the least squares estimator (II)		
5	asymptotic properties of least squares estimator		
6	Hypothesis testing		
7	Inference and prediction, Functional form and structural change		
8	Specification analysis and model selection (I)		
9	期中考試週 Midterm Exam		
10	Specification analysis and model selection (II)		
11	Generalized regression model		

12	Instrumental variables estimation	
13	panel data (I)	
14	panel data (II)	
15	Model for discrete choic	
16	Series correlation; model with lagged variables	
17	Maximum likelihood estimatio	
18	期末考試週 Final Exam	

教學策略 Teaching Strategies

課堂講授 Lecture 分組討論 Group Discussion 參觀實習 Field Trip

其他 Miscellaneous:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		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 General 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%								

評量方式補充說明
Grading & Assessments Supplemental instructions

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*, 6th ed., 2008 New Jersey: Prentice Hall

James H. Stock and Mark Watson, *Introduction to Econometrics*, Boston: Addison-Wesley, 2007

Grant V. Farnsworth (2008) *Econometrics in R*. PDF and a browsable HTML version files are available at www.r-project.org *Introduction to Econometrics*, Boston: Addison-Wesley, 2007

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)