課程大綱

Program Syllabus

系所 Department	企業管理研究所 / Graduate Institute			必選修		選修	
	of Business Administration		compulsory/elective		ve elective		
課程名稱	財務計量經濟學			學分數 Credit(s)		3	
(含英文名稱)	Financial Ec	Financial Econometrics					
Course title							
學年/學期 academic	109-2 學期 Spring semester 2021			上課地點 Classroom		om 管院 427	
year/Semester							
講授教師	宋豪漳			上課時間		Thursday,	
Instructor	Hao-Chang	Hao-Chang Sung				09:10PM~12:00PM	
教師辦公室&諮詢時間	冒 管院 42	1	教師聯絡	各資訊 Phor		Phone: TBA	
Instructor office number	er Thursda	y, 14:30-16:00 Instructor Contac		r Contact	Email:		
& office hour	PM				f	frrg4125@hotmail.com	
助教	TBA		助教聯絡資訊		E	Email:	
Teaching assistant			TA conta	ct	Г	ГВА	
先修課程	統計學、微	積分、財務管理					
Pre-requisite courses	Statistics, Calculus, and Financial Management						
課程目標	1.This cour	rse will show h	now econ	ometric me	thodolo	ogies can be used in	
Course Objective	finance-relat	ed research, mainly	y focusing	on financial	l manag	gement, corporate finance	
	and financial accounting issues.						
	2. These econometric methods include multiple regressions, simultaneous regressions,						
	panel data analysis, and some issues related to finance and financial accounting.						
	3.By the end of this course, (I hope) students can understand the intuition behind				the intuition behind		
	financial econometrics and be expected to apply the empirical techniques learned in			techniques learned in			
	class to actual financial data.						
		登學習目標 Assura					
		習目標(Major or n					
主要學習目標 Major	learning	主要學習目標 Major learning		ning 次	次要學習目標 Minor learning		
goal	goal		goal		goal		
目標 1: 創新思考 Lo	G1:Creative	目標 4:全球視野 LG4:Global			目標 2:溝通能力		
Thinking		Perspectives		LG	LG2:Communication Skills		
tot I I							
教材	Handouts						
Teaching materials							
網址 Course website							
教科書/參考書	Textbooks:						
Textbooks/Reference	1. Lee, C. F., Chen, H. Y., & Lee, J. (2019). Financial Econometrics, Mathematics and						
Statistics. Springer, New York.							

- 2. Campbell, J. Y., Lo, A. W., & MacKinlay, A. C. (1997). *The Econometrics of Financial Markets*. Princeton University press.
- 3. Assigned papers.

Recommended Books:

- 2. Gibbons, R. S. (1992). A Primer in Game theory. Harvester Wheatsheaf.
- 2. Allen, F., & Morris, S. (1998). Finance applications of game theory. Cowles Foundation for Research in Economics.

評量方式(請填百分	課堂參與	20%	個案討論 Case study	%
比)	Participation			
Assessment	作業 Homework	%	專題 Project	50%
	小考 Quiz	%	其他 1 other ()	%
	期中考 Midterm	30%	其他 2 other ()	%
	期末考 Final	%	其他 3 other ()	%
	報告 Presentation	%	其他 4 other ()	%

其他說明

Other description

1. 碩博合開課程

The course will be offered for master and doctoral students.

2. Teaching Approach(es):

講述 Lecture: 50%

課堂討論 Class Discussion: 20% 小組活動 Group Activity: 30%

- 3. Course Contents:
- i. Class Participation/Attendance (20%)

Class attendance and participation are important. Students need to send an e-mail for their excuse for absences in advance. (In case of an emergency or illness, they are allowed to send me an e-mail after their absence)

ii. Midterm Exam (30%)

There will be one midterm exam for this course. The exam will consist of 2 to 3 essay questions and 1 to 2 analyses and calculations problems that involve some calculation process without a computer's help. Each exam grading is based on a 100-point basis. iii. Project (50%)

- a. Students need to select a research paper published in one of leading accounting or finance journals (*The Accounting Review, Journal of Accounting and Economics, Journal of Accounting Research, Review of Accounting Studies, Contemporary Accounting Research; Journal of Finance, Journal of Financial Economics, Review of Financial Studies, Journal of Financial and Quantitative Analysis*).
- b. Students will form a team (2 students) and present the selected paper. Each group will be required to present as if he/she was the author. The discussion leader is to provide a summary report of the papers and help facilitate an in-depth understanding

of the methodological innovations and problems. Besides, practical issues, such as data collecting, data manipulation, and data analysis, are also introduced. Each group is expected to apply the empirical techniques learned in class to real-world financial data. By the end of this course, each group should replicate a research paper in one of the leading journals.

課程規劃表 Course Schedule

週次	日期	內容	教材章節	其他說明
week	Date	Description	Textbook	Remark
1.	2/24	Course Review	Ch.1 of Lee	
1.			et al. (2019)	
	3/3	a. Multiple Regression Model	Ch.2 & Ch.3	
2.		b. Various Topics Associated with the Regression Analysis (Multicollinearity, Heteroscedasticity, Autocorrelation,	of Lee et al.	
-		Model Specification and Specification Bias of the Regression Model)	(2019)	
	3/9	a. Various Topics Associated with the Regression Analysis		
3.		(Nonlinear Regression Models, Lagged Dependent b. Variables in the Regression Model, Dummy Variables in	Ch.3 of Lee	
		the Regression Model, and Regression Model with Interaction Variables)	et al. (2019)	
	3/17	a. Endogeneity (Two-Stage Least Squares, Three-Stage		
		Least Squares) b. Assigned paper: Billett, T., J. A. Garfinkel, and M. Yu,	Ch.4 of Lee	
4.		2017. The effect of asymmetric information on product	et al. (2019)	
		market outcomes. <i>Journal of Financial Economics</i> 123(2), 357-376.		
	3/24	a. Endogeneity (Exogenous Shock, Difference in Difference)		
_		b. Assigned paper: Francis, B., I. Hasan, and Q. Wu, 2015.	Ch.4 of Lee	
5.		Professors in the boardroom and their impact on	et al. (2019)	
		corporate governance and firm performance. <i>Financial Management</i> 44(3), 547-581.		
6.	3/31	a. Econometric Approach to Financial Analysis, Planning, and Forecasting (SUR Estimation Methods)	Ch.5 of Lee	
	1/5		et al. (2019)	
7.	4/7	a. Econometric Approach to Financial Analysis, Planning, and Forecasting (Structural Econometric Models)	Ch.5 of Lee	
	4/1.4	,	et al. (2019)	
	4/14	a. Fixed Effects, Clustering Effectsb. Assigned paper:		
		i. Petersen, M. A. 2009. Estimating Standard errors in		
8.		Finance Panel Data Sets: Comparing Approaches. <i>The Review of Financial Studies</i> , 22(1), 435-480.	Ch.6 of Lee	
		ii. Hilary, G., & Hsu, C. 2011. Endogenous	et al. (2019)	
		Overconfidence in Managerial Forecasts. Journal of		
	4/21	Accounting and Economics, 51(3), 300-313. a. Fixed Effects, Clustering Effects		
9.		b. Assigned paper: Thompson, S. B., 2011. Simple	Ch.6 of Lee	
2.		Formulas for Standard Errors that Cluster by Both Firm and Time. <i>Journal of Financial Economics</i> , 99(1), 1-10.	et al. (2019)	
10.	4/28	Midterm Exam		
11	5/5	a. Errors-in-variables Estimation Methods in Finance	Ch.7 of Lee	
11.		Research (Cost of Capital, Asset Pricing,)	et al. (2019)	

12.	5/12	a. Errors-in-variables Estimation Methods in Finance Research (Capital Structure, Investment Decision)	Ch.7 of Lee et al. (2019)
13.	5/19	a. Assigned paper: Peters, R.H., and Taylor, L.A. (2017) Intangible capital and the investment-q relation. <i>Journal of Financial Economics</i> , 251-272.	
14.	5/26	a. Assigned paper: Kim, D. (1995). The Errors in the Variables Problem in the Cross-section of Expected Stock Returns. <i>The Journal of Finance</i> , 50(5), 1605-1634.	
15.	6/2	a. Spurious Regression and Data Mining (Applying into Simple Predictive Regression.)	Ch.9 of Lee et al. (2019)
16.	6/9	a. Event Study Analysisb. Assigned paper: How Much New Information Is There in Earnings? <i>Journal of Accounting Research</i>, 46, 975-1016.	Ch.4 of Campbell et al. (1997).
17.	6/16	Final Project Presentation	
18.	6/23	Final Project Presentation	