



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	區域與產業經濟學(一)		學年/學期 Academic Year/Semester	114/2
課程名稱(英文) Course Name in English	Regional and Industrial Economics (I)			
科目代碼 Course Code	EC_D0040	系級 Department & Year	博士	開課單位 Course-Offering Department
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/林晏如			
先修課程 Prerequisite				
課程描述 Course Description				
This course provides an advanced analytical study of industrial organization and spatial (regional) economics, focusing on firms' strategic behavior in pricing, competition, regulation, licensing, and location choice. Emphasis is placed on theoretical economic models, welfare analysis, and critical reading of frontier research papers. Students will engage deeply with both classic theoretical foundations (e.g., monopoly regulation, oligopoly, game theory, Hotelling models) and modern research literature in industrial and regional economics.				
課程目標 Course Objectives				
This course aims to teach students on theories in Regional Economics and Industrial Economics and their applications. We target to train students to be capable of doing researches independently. The content consists of theories and models on regional economics and industrial economics, which are published in known journals.				
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：通曉經濟學的高階理論技巧，應用數學與賽局解決經濟議題的能力 Mathematical analysis skills: Mastering in advanced application of mathematical theories and game theory in analyzing economic issues			●
B	實證經濟分析能力：通曉經濟學的高階實證技巧，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 advanced application of statistics and econometrics in data collection and examination			●
C	微觀經濟之闡釋能力：通曉高階個體經濟學相關的理論與應用 Microeconomic perspective: Thorough understanding of advanced microeconomic theories and relevant application			●
D	宏觀經濟之闡釋能力：通曉高階總體經濟學相關的理論與應用 Macroeconomic perspective: Thorough understanding of advanced macroeconomic theories and relevant application			●
E	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。 Employment opportunities: capabilities of working on important policy and decision challenges in business and government			●
F	溝通表達能力：思路清晰，有能力與人溝通並撰寫高階專業研究報告 Communication skills: Having a clear mind and profound ability in presenting advanced professional academic research			●
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 and Course Evaluation	
2	Ch1 Perfectly Competition Market	Lecture Efficiency and welfare implications
3	Ch2 Monopoly Market	Lecture Profit maximization, welfare loss, and pricing behavior
4	Ch2 Monopoly Market	Lecture Profit maximization, welfare loss, and pricing behavior
5	Ch3 Regulation of Monopoly	Lecture Regulation, and welfare analysis
6	Ch4 Pricing Strategy	Lecture Price discrimination Strategic pricing tools and market segmentation
7	Ch5 Oligopoly	Lecture Cournot and Bertrand competition Strategic interaction among firms
8	Ch6 Game Theory	Lecture Static and dynamic games Nash equilibrium and strategic reasoning
9	Midterm Exam	Covers Chapters 1 - 6 The midterm exam is open-note with one double-sided (front and back) page of handwritten notes allowed.
10	Licensing in Cournot Duopoly Wang, X. H. (1998). Fee versus royalty licensing in a Cournot duopoly model. <i>Economics letters</i> , 60(1), 55-62.	Lecture
11	Licensing with Product Differentiation Wang, X. H. (2002). Fee versus royalty licensing in a differentiated Cournot duopoly. <i>Journal of Economics and Business</i> , 54(2), 253-266.	Student Presentation
12	Royalty Licensing San Martin, M., & Saracho, A. I. (2010). Royalty licensing. <i>Economics Letters</i> , 107(2), 284-287	Student Presentation
13	Entry and Strategic Profit Considerations Mukherjee, A., & Zhao, L. (2017). Profit raising entry. <i>The Journal of Industrial Economics</i> , 65(1), 214-219.	Student Presentation
14	Location Models: Hotelling Framework Hotelling, H. (1929). Stability in competition. <i>The economic journal</i> , 39(153), 41-57. (Lin) d'Aspremont, C., Gabszewicz, J. J., & Thisse, J. F. (1979). On Hotelling's "Stability in competition". <i>Econometrica: Journal of the Econometric Society</i> , 1145-1150.	Lecture

15	Spatial Price Discrimination Liang, W. J., Hwang, H., & Mai, C. C. (2006). Spatial discrimination: Bertrand vs. Cournot with asymmetric demands. <i>Regional Science and Urban Economics</i> , 36(6), 790-802.	Student Presentation
16	contemporary issues	Lecture
17	Flexible learning Independent study Consultation and review	
18	Flexible learning Independent study Consultation and review	

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:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL)
 團體合作學習 (TBL)
 解決導向學習 (SBL)
 翻轉教室 Flipped Classroom
 磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice
 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
 跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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(含出缺席) General Performance (Attendance Record)	10%		✓						Active engagement through questions, discussion, and peer interaction.
期中考成績 Midterm Exam	20%	✓							Covers Chapters 1 - 6
期末考成績 Final Exam	25%			✓					Paper Presentation
作業成績 Homework and/or Assignments	20%	✓							Performance in problem-solving and applied exercises.
其他 Miscellaneous (research project proposal.)	25%				✓				
評量方式補充說明 Grading & Assessments Supplemental instructions									
Assessment and Evaluation									
Component	Weight	Description							
Paper Presentation	25%	In-class presentation of a research paper (120 minutes). Assessed on clarity, analytical depth, and discussion leadership.							
Class Participation	10%	Active engagement through questions, discussion, and peer interaction.							
In-Class Exercises & Homework	20%	Performance in problem-solving and applied exercises.							
Midterm Exam	20%	Covers Chapters 1 - 6. (The midterm examination permits the use of one double-sided handwritten note sheet. No additional materials are allowed.)							
Research project proposal	25%	by submitting an independent research project proposal.							
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.)									
The instructor will provide all necessary course materials during the semester. Students are expected to prepare assigned readings and take responsibility for leading the discussion of selected papers.									
課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址) Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.)									
其他補充說明 (Supplemental instructions)									