


國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	()	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_50470	系級 Department & Year	開課單位 Course-Offering Department
修別 Type	Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0
授課教師 Instructor	/		
先修課程 Prerequisite			
課程描述 Course Description			
<p>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.</p>			
課程目標 Course Objectives			
<p>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.</p>			
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	Mathematical analysis skills: Mastering in intermediate application of mathematical theories and game theory in analyzing economic issues.		
B	Empirical analysis skills: Mastering in intermediate application of statistics and econometrics in data collection and examination		
C	Microeconomic perspective: Thorough understanding of intermediate microeconomic theories and relevant application		
D	Macroeconomic perspective: Thorough understanding of intermediate macroeconomic theories and relevant application		
E	Employment opportunities: capabilities of working on important policy and decision challenges in business and government		
F	Communication skills: Having a clear mind and capability in writing an intermediate professional academic report		
<p>圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated</p>			

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	Mdterm 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. Economics Letters, 60(1), 55-62.	Lecture
11	Licensing with Product Differentiation Wang, X. H (2002). Fee versus royalty licensing in a differentiated Cournot duopoly. Journal of Economics and Business, 54(2), 253-266.	Student Presentation
12	Royalty Licensing San Martín, M, & Saracho, A. I. (2010). Royalty licensing. Economics Letters, 107(2), 284-287	Student Presentation
13	Entry and Strategic Profit Considerations Mukherjee, A., & Zhao, L. (2017). Profit raising entry. The Journal of Industrial Economics, 65(1), 214-219.	Student Presentation

14	<p>Location Models: Hotelling Framework</p> <p>Hotelling, H (1929). Stability in competition. The economic journal, 39(153), 41-57. (Lin)</p> <p>d'Aspremont, C., Gabszewicz, J. J., & Thisse, J. F. (1979). On Hotelling's "Stability in competition". Econometrica: Journal of the Econometric Society, 1145-1150.</p>	Lecture
15	<p>Spatial Price Discrimination</p> <p>Liang, W J., Hwang, H, & Mai, C. C. (2006). Spatial discrimination: Bertrand vs. Cournot with asymmetric demands. Regional Science and Urban Economics, 36(6), 790-802.</p>	Student Presentation
16	contemporary issues	Lecture
17	<p>Flexible Learning</p> <p>Independent study</p> <p>Consultation and review</p>	
18	<p>Flexible Learning</p> <p>Independent study</p> <p>Consultation and review</p>	

教學策略 Teaching Strategies

- Lecture
 Group Discussion
 Field Trip
- Miscellaneous:

教學創新自評 Teaching Self-Evaluation

(Innovative Teaching)

- (PBL)
 (TBL)
 (SBL)

- Flipped Classroom
 MOOCs

(Social Responsibility)

- Community Practice
 Industry-Academia Cooperation

(Transdisciplinary Projects)

- Transdisciplinary Teaching
 Inter-collegiate Teaching

- Courses Co-taught with Industry Practitioners

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
() General Performance (Attendance Record)	20%		✓						Active engagement through questions, discussion, and peer interaction.
Midterm Exam	30%	✓							Covers Chapters 1- 6
Final Exam	30%			✓					Paper Presentation
Homework and/or Assignments	20%	✓							Performance in problem solving and applied exercises.
Miscellaneous (Extra Credit)	15%				✓				

評量方式補充說明

Grading & Assessments Supplemental instructions

Assessment and Evaluation

Component	Weight	Description
Paper Presentation	30%	In-class presentation of a research paper (120 minutes). Assessed on clarity, analytical depth, and discussion leadership.
Class Participation	20%	Active engagement through questions, discussion, and peer interaction.
In-Class Exercises & Homework	20%	Performance in problem solving and applied exercises.
Midterm Exam	30%	Covers Chapters 1- 6. (The midterm examination permits the use of one double-sided handwritten note sheet. No additional materials are allowed.)

Extra Credit: Students may earn up to an additional 15% 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)