② 國立東華大學 教學計劃表 Syllabus

	名稱(中文) ne in Chinese	產業經濟(二)			學年/學期 Academic Year/Sen	105/2		
	名稱(英文) ne in English	Analysis in Industrial Economics (II)						
	目代碼 se Code	EC71100	系級 Department & Year		開課單位 Course-Offering Department		經濟學系	
	修別 Type	選修 Elective 學分數/時間 Credit(s)/Hour(s) 3.0/3.0						
	授課教師 Instructor /郭平欣							
	先修課程 Prerequisite							
課程描述 Course Description								
Industrial organization is primarily an applied price theory course devoted to the study of issues involving the organization and behavior of firms and industries. Outside of addressing "standard" topics such as the effect of concentration, barriers to entry, empirical cost curves, and product differentiation; students will be asked to understand some newer topics such as transaction-cost analysis, game theory, strategic behavior as a method of competition/collusion, and franchising.								
		課	程目標 Cour	se Objec	ctives			
This course will provide students with the ability to conduct and evaluate economic analyses of issues relating to industrial economics. The course begins with an introduction of the field. It proceeds to a discussion of the behavior of firms in an imperfectly competitive world. We study the effects of different industrial policy instruments.								
	課程目標與系專業能力系專業能力Basic Learning OutcomesBasic Lea						力相關性 relation between urse Objectives and Dept.'s	
 數理分析能力:通曉經濟學的理論技巧,應用數學與賽局解決經濟議題的能力。Mathematical analysis skills: Mastering in application of mathematical theories and game theory in analyzing economic issues. 								
實證經濟分析能力:通曉經濟學的實證技巧,善用資訊科技進行資訊蒐集、資料統計與計量分 B 析。Empirical analysis skills: Mastering in application of statistics and econometrics in data collection and examination								
C 微觀經濟之闡釋能力:通曉個體經濟學相關的理論與應用。Microeconomic perspective: Thorough understanding of microeconomic theories and relevant application								
D 宏觀經濟之闡釋能力:通曉總體經濟學相關的理論與應用。Macroeconomic perspective: O Thorough understanding of macroeconomic theories and relevant application								
E樂活能力: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						\bigcirc		
F Having	溝通表達能力:思路清晰,有能力與人溝通並撰寫專業研究報告。Communication skills:FHaving a clear mind and profound ability in presenting professional academicresearch							
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	週次Week 內容 Subject/Topics 備註Remarks						備註Remarks	

1	Introduction(課程介紹) *Gambit介紹 -Gambit is a set of software tools for doing computation on finite, noncooperative games. These comprise a graphical interface for interactively building and analyzing general games in extensive or strategy form; a number of command-line tools for computing Nash equilibria and other solution concepts in games; and, a set of file formats for storing and communicating games to external tools. *市場賽局(market game): *Optimization and Equilibrium -Cournot vs Bertrand -Homogeneous vs Heterogeneous -From 2 to N, -Symmetric vs Asymmetric	
2	*Introduction to Maple *Singh and Vives (1984) "Price and quantity competition in a differentiated duopoly," RAND, 15(4):546-555. +Competition and the choice of intrument variables.	
3	228 Memorial Day - Holiday	
4	+Competition and the choice of intrument variables. Cheng, Leonard, (1985) "Comparing Bertrand and Cournot Equilibria: A Geometric Approach," RAND Journal of Economics, The RAND Corporation, vol. 16(1), pages 146-152, Spring.	
5	Product differentialtion-horizontal (產品差異化-水平差異) Hotelling model, minimum vs maximum differentiation d'Aspremont C., J. J. Gabszewicz and J.F. Thisse(1979) "On Hotelling's "Stability in Competition"," Econometrica, 47(5):1145- 1150.	
6	Product differentialtion-Vertical (產品差異化-垂直差異) Quality choice Choi, C.J. and H.S. Shin (1992), "A Comment on a Model of Vertical Product Differentiation," Journal of Industrial Economics, 40, 2, 229-231.	
7	Product differentialtion-Vertical (產品差異化-垂直差異) Instruments vs Quality choice Motta, M. (1993) "Endogenous Quality Choice: Price vs. Quantity Competition," The Journal of Industrial Economics, 41, 113-31. The Range of type and Market coverage消費者類型、品質範圍與市場覆蓋 Wauthy, X. (1996) "Quality Choice in Models of Vertical Differentiation," Journal of Industrial Economics, 44, 3, 345-53.	
8	Spring Break - Holiday(放假)	
9	期中考	
10	Licensing(授權) Wang X. H. (1998), "Fee versus Royalty Licensing in A Cournot Duopoly Model," Economics Letters, 60:55 - 62. Wang, X. H. and B. Z. Yang, (1999), "On Licensing under Bertrand Competition," Australian Economic Papers, 38:106 - 119. Wang, X. H. (2002), "Fee vs. Royalty Licensing in Differentiated Cournot Oligopoly," Journal of Economics and Business, 54, 253 - 262.	
11	Licensing(授權) Fosfuri, A. and E. Roca, (2004), "Optimal Licensing Strategy: Royalty or Fixed Fee?" International Journal of Business and Economics, 3:13-19. Kabiraj, T. (2004), "Patent Licensing in a Leadership Structure," The Manchester School, 72:188-205. Wang, X. H. and B. Z. Yang(2004), On Technology Transfer to an Asymmetric Cournot Duopoly, Economics Bulletin, 4(14):1-6.	

12	Licensing(授權) Li, C. and J. Song (2009), "Technology Licensing in a Vertically Differentiated Duopoly," Japan and the World Economy, 21:183-90. Li, C. and J. Wang (2010), "Licensing a Vertical Product Innovation," The Economic Record, 1-11.									
13	Licensing(授權) Poddar, S. and Sinha, U. B. (2010). 'Patent Licensing from a High- cost Firm to a Low-cost Firm', Economic Record, 86:384-395. Chen, C. S. (2015) "Endogenous Market Structure and Technology Licensing", TEA.									
14	Auctions and Bidding拍賣(投標與喊價): Vickrey, W. (1961). "Counterspeculation, auctions, and competitive sealed tenders," The Journal of Finance, 16(1), 8-37. McAfee, R. Preston and John McMillan. 1987. "Auctions and Bidding," Journal of Economic Literature, 25, 699-738.									
15	Bayesian game and mechanism design(貝氏賽局與機制設計):optimal auction design Myerson, R. (1981). "Optimal Auction Design," Mathematics of Operations Research, 6(1), 58 - 73. A seminal paper, introduced revenue equivalence and optimal auctions. Samuelson W., (1984) "Bargaining under asymmetric information," Econometrica 52:995 - 1005.									
16	Dragon Boat Fee	Dragon Boat Festival - Holiday								
17	Bayesian game and mechanism design(貝氏賽局與機制設計)-non-linear pricing Maskin E., and Riley J. (1984), "Monopoly with Incomplete Information," Rand Journal of Economics, 15: 171-196.									
18	final exam期末考									
		教	學 策	略 Te	aching	Strateg	ies			
	構授 Lecture iscellaneous: <u>教</u> 望		J	論Group 做理論推		sion	參	觀實習	Field 1	ſrip
		學期成績計	算及多元	:評量方:	式 Gradi	ng & As	ssessmen	its		
a	配分項目	配分比例				多元評	量方式 A	ssessme	nts	
E	Items	Percentage	測驗 會考	實作 觀察	口頭 發表	專題 研究	創作展演	卷宗	證照 檢定	其他
平時成績(Performand										
期中考成績	f Midterm Exam	40%	~							open books, open notes
期末考成績	f Final Exam									
作業成績 Homework and/or Assignments		40%		~	~					Maple推導
其他 Miscellaneous (期末報告)		20%			~	~				Maple推導
		Grading & A		F量方式: ents Sup			ruction	is		
作為評分標	无上課閱讀期刊文章	之數學推導,」	以數學軟	體Maple					、闡釋氵	青楚、格式美觀

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.)

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.)

其他補充說明 (Supplemental instructions)