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	學年/學期 Academic Year/Semester			
	名稱(英文) ne in English	Analysis in Industrial Economics (II)							
科目代碼 Course Code		EC71100	系級 Department & Year	博士	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 力相關性 S專業能力 Basic Learning Outcomes Basic Learning Outcomes Education Objectives 						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。MathematicalAanalysis 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 Thorou	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: 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			
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						0			
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Rema					備註Remarks				

	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	
1	equilibria and other solution concepts in games; and, a set of file	
1	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	
	Game theory-a brief introduction	
3	*Singh and Vives (1984) "Price and quantity competition in a	
0	differentiated duopoly," RAND, 15(4):546-555. +Competition and the choice of intrument variables.	
	+Competition and the choice of instrument variables.	
	Cheng, Leonard, (1985) "Comparing Bertrand and Cournot Equilibria:	
4	A Geometric Approach, " RAND Journal of Economics, The RAND	
	Corporation, vol. 16(1), pages 146-152, Spring.	
	Product differentialtion-horizontal (產品差異化-水平差異)	
_	Hotelling model, minimum vs maximum differentiation	
5	d'Aspremont C., J. J. Gabszewicz and J.F. Thisse(1979) "On Hotelling's "Stability in Competition"," Econometrica, 47(5):1145-	
	1150.	
	Product differentialtion-Vertical (產品差異化-垂直差異)	
	Quality choice	
6	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.	
	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	
7	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.	
0		
8	Spring Break - Holiday(放假)	
9	期中考	
	Licensing(授權)	
	Wang X. H. (1998), "Fee versus Royalty Licensing in A Cournot Duopoly Model," Economics Letters, 60:55 - 62.	
10	Wang, X. H. and B. Z. Yang, (1999), "On Licensing under Bertrand	
10	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. Licensing(授權)	
	Fosfuri, A. and E. Roca, (2004), "Optimal Licensing Strategy:	
11	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.	
	heymmetric courier pupping, heonomics burietin, T(17/.10.	

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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	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.						
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 Teaching Strategies						
 ✓ 課堂講授 Lecture ✓ 分組討論Group Discussion ✓ 孝觀實習 Field Trip ✓ 其他Miscellaneous: <u>教導學生以數學軟體Maple做理論推導</u> 							
	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 Industy-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 othe	r:						

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例	多元評量方式 Assessments							
Items	Percentage	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	35%	\checkmark							open books, open notes
期末考成績 Final Exam	35%								open books, open notes
作業成績 Homework and/or Assignments	30%		~	~					Maple推導
其他 Miscellaneous (期末報告)				~	~				
評量方式補充說明 Grading & Assessments Supplemental instructions Homework or assignment needs to be done with maple or gambit. 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(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)									