



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	環境經濟學			學年/學期 Academic Year/Semester	107/2
課程名稱(英文) Course Name in English	Environmental Economics				
科目代碼 Course Code	IIE_56100	系級 Department & Year	碩士	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	/林慧菁				
先修課程 Prerequisite					
課程描述 Course Description					
主要以講解並討論研究分析環境經濟議題的期刊論文與相關文獻，使同學瞭解當前的環境保護政策背後的經濟理念，並學習如何以經濟分析工具評估環境保護政策的利弊得失。					
課程目標 Course Objectives					
介紹當前的環境經濟政策之理論架構與分析方法，如：environmental philosophy and ethics, markets and efficiency, the valuation of environmental amenities, pollution regulation, policy options and analysis; and international issues。					
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.				○
B	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: 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				○
F	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: Having a clear mind and capability in writing a professional academic report				
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	開學週				
2	課程介紹 Hanley: the Economics Perspective on the Environment (Ch 1)				

3	Hanley: (Ch 1), Issues and Trend : Tim Jackson, Prosperity Without Growth, 2009, 2017	
4	Issues and Trend: (continued) D. A. Underwood (1998), "The institutional origins of crisis for economy and ecology", Journal of Economic Issues, 32(2), 513-522. Bill Shaw (2001), "Economics and the environment-A land ethic critique of economic policy", Journal of Business Ethics, 33, 51-57.	
5	Issues and Trend: (continued) John M. Gowdy (2004), "The Revolution in Welfare Economics and Its Implications for Environmental Valuation and Policy", Land Economics, 80(2), 239-257. Paul R. Portney(2000), "Environmental Problems and Policy: 2000-2050", The Journal of Economic Perspectives, 14(1), 199-206. optional: Brian R. Copeland; M. Scott Taylor (2004), "Trade, Growth, and the Environment", Journal of Economic Literature, 42(1), 7-71.	
6	Basic Concepts:Market Failure (Hanley Ch 2, p. 22-42)	
7	Basic Concepts:Market Failure (Hanley Ch 2, p. 22-42)	
8	The Problem of Social Cost R. H. Coase Journal of Law and Economics, Vol. 3, Oct., 1960 (Oct., 1960), pp. 1-44.	
9	期中考試週 Midterm Exam	Take-home exam
10	The Problem of Social Cost: R. H. Coase, "The Problem of Social Cost" , Journal of Law and Economics, Vol. 3, Oct., 1960 (Oct., 1960), pp.1-44. and comments	
11	The "Coase Theorem": A Reexamination--Comment Jeffrey F. Jaffe The Quarterly Journal of Economics, Vol. 89, No. 4. (Nov., 1975), pp. 660-661. The "Coase Theorem": A Reexamination G. A. Mumey The Quarterly Journal of Economics, Vol. 85, No. 4. (Nov., 1971), pp. 718-723.	
12	Information: (Ch 2, p. 43-57) Information and the Coase Theorem Joseph Farrell The Journal of Economic Perspectives, Vol. 1, No. 2. (Autumn, 1987), pp. 113-129. and Externalities:	
13	Externalities: Decentralization, Externalities, and Efficiency Peter Klibanoff; Jonathan Morduch The Review of Economic Studies, Vol. 62, No. 2. (Apr., 1995), pp. 223-247. and Asymmetric Information	

14	Externalities and Asymmetric Information Jeremy Greenwood; R. Preston McAfee The Quarterly Journal of Economics, Vol. 106, No. 1. (Feb., 1991), pp. 103-121. and Porter's Hypothesis	
15	Regulation and innovation: (Porter's Hypothesis) Tightening Environmental Standards: The Benefit-Cost or the No-Cost Paradigm? Karen Palmer; Wallace E. Oates; Paul R. Portney The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1995), pp. 119-132. Toward a New Conception of the Environment-Competitiveness Relationship Michael E. Porter; Claas van der Linde The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1995), pp. 97-118.	
16	Pollution Control Polic (Porter's Hypothesis) A theoretical foundation of the Porter hypothesis Stefan Ambec and Philippe Barlac Economics Letters Volume 75, Issue 3, May 2002, Pages 355-360	
17	Transaction Costs and Tradeable Permits Stavins Robert N. Journal of Environmental Economics and Management Volume 29, Issue 2, September 1995, Pages 133-148 y and R&D Investment : Permits, Standards, and Technology Innovation Juan-Pablo Montero Journal of Environmental Economics and Management Volume 44, Issue 1, July 2002, Pages 23-44	6/9畢業典禮 Final take-home exam will be posted (6/20) 給期末考題目
18	期末考試週 Final Exam (期末口頭報告)(交take-home exam)	1. Oral presentation 2. hand in your take-home exam

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 General Performance	10%		✓						
期中考成績 Midterm Exam	30%	✓							
期末考成績 Final Exam	30%	✓							
作業成績 Homework and/or Assignments	30%			✓					口頭報告後並繳交學其報告1篇
其他 Miscellaneous (_____)									
評量方式補充說明 Grading & Assessments Supplemental instructions									
期末報告一篇，期中、期末考（take-home exam）。 期末報告：佔30%， 期中、期末考：各佔30%， 平時成績：佔10%									
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.)									
參考資料（教科書）： Hanley, N., J. F. Shogren and B. White, 1997, Environmental Economics: in Theory and Practice, Oxford University Press. （代理商未知，如無法買到，可能以印講義方式或以替代教材處理） 參考資料：將於課前通知，如有可能將放在網頁上供同學下載。 Freeman, A. M., III, 1993, The Measurement of Environmental and Resource Values, Washington DC: Resources for the Future. Dorfman, R. and N. S. Dorfman, eds., 1993, Economics of the Environment: Selected Readings, 3rd Edition. New York: Norton. 等等……									
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.) http://faculty.ndhu.edu.tw/~hclin/index.html									
其他補充說明 (Supplemental instructions)									