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# ②图 z 東華大學 教學計劃表 Svllabus

	教与	學計劃表 3	Syll	abus					
課程名稱(中文) Course Name in Chinese	環境經濟學			學年/學期 Academic Year/Semes	ter 112/2				
課程名稱(英文) Course Name in English	Environmental Economics								
科目代碼 Course Code	ECD0180	經濟學系	經濟學系						
修別 Type	選修 Elective	選修 Elective 學分數/時間 Credit(s)/Hour(s) 3.0/3.0							
授課教師 Instructor	/林慧菁	/林慧菁							
先修課程 Prerequisite									
	課	程描述 Course De	scrip	tion					
主要以講解並討論研究分析環 並學習如何以經濟分析工具評			使同學	學瞭解當前的環境保護』	<b>文策背後的經濟理念</b> ,				
	課	:程目標 Course 0	bjecti	ives					
Presenting the contemporary framework of economic analysis concerning environmental policy, for example, environmental philosophy and ethics, markets and efficiency, the valuation of environmental amenities, pollution regulation, policy options and analysis; and international issues.									
課程目標與系專業能 力相關性									
4. 4 3/1/10.1					Correlation betwee Course Objective and Dept.'s Education Objectives				
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									
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 B 分析。Empirical analysis skills: Mastering in advanced application of statistics and econometrics in data collection and examination									
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									
1 1) 1	Z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								
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									
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: F 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	開學週 課程介紹	
2	Hanley: the Economics Perspective on the Environment (Ch 1)	

	Hanley: (Ch 1),	
3	hanteg. (on 1),	1 (9/97)
0	Issues and Trend:	no class (2/27)
	Tim Jackson, Prosperity Without Growth, 2009, 2017	
	Issues and Trend: (continued) D. A. Underwood (1998), "The institutional origins of crisis for	
	economy and ecology",	
4	Journal of Economic Issues, 32(2), 513-522.	
4		
	Bill Shaw (2001), "Economics and the environment-A land ethic critique of economic policy",	
	Journal of Business Ethics, 33, 51-57.	
	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.	
	Land Economics, $80(2)$ , $259-257$ .	
	Paul R. Portney(2000), "Environmental Problems and Policy: 2000-	
5	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)	
	·	
7	Basic Concepts: Market Failure (Hanley Ch 3)	
_	The Problem of Social Cost R. H. Coase	(1.17)
8	Journal of Law and Economics, Vol. 3, Oct., 1960 (Oct., 1960), pp.	no class (4/3)
	1–44.	m i i
9	期中考試週 Midterm Exam	Take-home exam, due next week in class
	The Problem of Social Cost:	
1.0	R. H. Coase, "The Problem of Social Cost", Journal of Law and	
10	Economics, Vol. 3, Oct., 1960 (Oct., 1960), pp. 1-44.	
	and comments	
	The "Coase Theorem": A Reexamination—Comment	
	Jeffrey F. Jaffe	
	The Quarterly Journal of Economics, Vol. 89, No. 4. (Nov., 1975), pp. 660-661.	
11	pp. 000 001.	
	The "Coase Theorem": A Reexamination	
	G. A. Mumey The Quarterly Journal of Economics, Vol. 85, No. 4. (Nov., 1971),	
	pp. 718–723.	
	Information: (Ch 2, p. 43-57)	
	Information and the Coase Theorem	
12	Joseph Farrell The Journal of Economic Perspectives, Vol. 1, No. 2. (Autumn,	
	1987), pp. 113–129.	
	and Externalities:	
	Externalities:	
13	Decentralization, Externalities, and Efficiency	
	Peter Klibanoff; Jonathan Morduch The Paview of Economic Studies, Vol. 62, No. 2, (Apr. 1995), pp.	
	The Review of Economic Studies, Vol. 62, No. 2. (Apr., 1995), pp. 223-247.	
	and Asymmetric Information	

The Quarterly Journal of Economics, Vol. 106, No. 1. (Feb., 1991), pp. 103-121, and Porter's Hypothesis  Regulation and innovation: (Porter's Hypothesis) Tightening Environmental Standards: The Benefit-Cost or the No-Cost Paradigm? Raren Palmer; Railace R. 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: Class van der Linde The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1995), pp. 97-118.  Follution Countrol 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  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  18	The Quarterly Jour	1 4 7 1 100 11 1 (71 1001)			
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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: Class van der Linde The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1995), pp. 97-118.  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 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 Journal of Environmental Economics and Management Volume 44, Issue 1, July 2002, Pages 23-44  18		hasis			
Raran 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.  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  Transaction Costs and Tradcable 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  18 期末考試理 Final Exam (朔末中頭報春)(文在&e-home exam)  **** *** *** *** *** *** *** *** ***	Regulation and inn	novation: (Porter's Hypothesis)			
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.   Pollution Control Polic (Porter's Hypothesis)   A theoretical foundation of the Porter hypothesis   Stefan Ambec and Philippe Barlac		nmental Standards: The Benefit-Cost or the No-Cost			
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Michael E. Porter: Claas van der Linde The Journal of Economic Perspectives, Vol. 9, No. 4. (Autumn, 1993), pp. 97-118.  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  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  1. Oral presentation  18 期末考試理 Final Exam (期末中試理 Final Exam (期末中試理 Final Exam (期末中試理 Final Exam (期末中試理 Final Exam (期末申試理 Final Exam (財活理 Final Exam (期末申試理 Final Exam (財活理 Final Exam		eption of the Environment-Competitiveness			
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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  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  18 期末可規程等)(文take-home exam)  ### ### ### ### ### ### #### #### ##	The Journal of Eco				
Stefan Ambee and Philippe Barlac   Economics Letters   Volume 75, Issue 3, May 2002, Pages 355-360     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   Final take-home exam will be posted   Permits, Standards, and Technology Innovation   St	Pollution Control				
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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  18 期末考試週 Final Exam (期末口頭報告)(交take-home exam)  ****	Transaction Costs	<u> </u>			
Investment:   Permits, Standards, and Technology Innovation   Juan-Pablo Montero   Journal of Environmental Economics and Management Volume 44, Issue 1, July 2002, Pages 23-44   1. Oral presentation   18 期末考試週 Final Exam (期末口頭報告)(交take-home exam)   2. hand in your take-home final exam   3. page 3. p		mmental Economics and Management			
Permits, Standards, and Technology Innovation Juan-Pablo Montero Journal of Environmental Economics and Management Volume 44, Issue 1, July 2002, Pages 23-44     1. Oral presentation   18		2, September 1995, Pages 133-148 y and R&D			
Journal of Environmental Economics and Management Volume 44, Issue 1, July 2002, Pages 23-44  18 期末考試週 Final Exam (期末口頭報告)(交take-home exam)  **** 数學 策略 Teaching Strategies**  *** 以深堂講授 Lecture ***					
期末考試週 Final Exam (期末口頭報告)(交take-home exam)  和 學 策略 Teaching Strategies  「 学親實習 Field Trip  「其他Miscellaneous:  ***  **教學 創新自評 Teaching Self-Evaluation  別新教學(Innovative Teaching)  「問題導向學習(PBL)  「開題等向學習(PBL)  「開題等の學習(PBL)  「開題等の學習(PBL)  「開題等有性(Social Responsibility)  「在地實踐Community Practice  「方法學合作 Industy-Academia Cooperation  「時域合作(Transdisciplinary Projects)  「時界教學Transdisciplinary Teaching  「時院系教學Inter-collegiate Teaching  「自己 「「持護人」  「「「「「「「「「「「」」」  「「「「「」」  「「「「」」  「「「」」  「「「」」  「「「」」  「「「」」  「「「」」  「「「」」  「「「」」  「「「」」  「「」  「「」  「「「」」  「「  「	Journal of Environ	nmental Economics and Management			
2. hand in your take-home final exam   2. hand in your take-home final exam   数學策略 Teaching Strategies   ダ東 書	volume 44, Issue I	, July 2002, Pages 23-44	1. Oral presentation		
Responsibility    本学 第 で Teaching Strategies   大学 で Teaching Strategies   大学 で Teaching Strategies   大学 の	I IX I '	I IX I ·			
其他Miscellaneous:    数學創新自評Teaching Self-Evaluation					
教學創新自評 Teaching Self-Evaluation  創新教學(Innovative Teaching)  問題導向學習(PBL)  翻轉教室 Flipped Classroom		✓ 分組討論Group Discussion 參觀實習	Field Trip		
創新教學(Innovative Teaching)  □ 問題導向學習(PBL)  ■ 翻轉教室 Flipped Classroom  □ 在地實踐Community Practice  □ 產學合作 Industy-Academia Cooperation  □ 跨界教學Transdisciplinary Teaching  □ 跨院系教學Inter-collegiate Teaching	其他Miscellaneous:				
□ 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 ■ 産學合作 Industy-Academia Cooperation  跨域合作(Transdisciplinary Projects) ■ 跨界教學Transdisciplinary Teaching ■ 跨院系教學Inter-collegiate Teaching		教學創新自評Teaching Self-Evaluation			
■ 翻轉教室 Flipped Classroom	創新教學(Innovative Teaching	g)			
社會責任(Social Responsibility)	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 Classroo	磨課師 Moocs			
跨域合作(Transdisciplinary Projects)  □ 跨界教學Transdisciplinary Teaching □ 跨院系教學Inter-collegiate Teaching	社會責任(Social Responsibili	ty)			
一 跨界教學Transdisciplinary Teaching	在地實踐Community Practic	e 產學合作 Industy-Academia Coopera	tion		
	跨域合作(Transdisciplinary F	Projects)			
業師合授 Courses Co-taught with Industry Practitioners	跨界教學Transdisciplinary	Teaching     跨院系教學Inter-collegiate Teaching	ng		
	業師合授 Courses Co-taugh	nt with Industry Practitioners			
其它 other:	其它 other:				

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	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	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)