

COURSE OUTLINE

Name of course	ENVIRONMENTAL ECONOMICS ANI	ENVIRONMENTAL ECONOMICS AND POLICY			
Lector	e-mail:	e-mail:			
Seminar Instru	ctor e-mail:				
Week 1	Topic 1 – Introduction to Environmental Economics	Lecture, hours	Seminar, hours		
	 Understanding the relationship between the economy and the environment The roles of markets and externalities Fundamental concepts: scarcity, opportunity cost, marginalism 	SWU 3	-		
	Topic 2 – Market Failures and the Environment	Lecture, hours	Seminar, hours		
Week 2	 Exploration of market failures: public goods, externalities, information asymmetry The tragedy of the commons and its implications Historical case studies highlighting market failures 	SWU 2	1		
Week 3	Topic 3 – Economic Valuation of Environmental Resources	Lecture, hours	Seminar, hours		
	 Introduction to non-market valuation techniques Contingent valuation, hedonic pricing, and travel-cost methods Challenges and criticisms of valuation techniques 	SWU 2	1		
Week 4	Topic 4 – Cost – Benefit Analysis in Environmental Decision Making	Lecture, hours	Seminar, hours		
	 Principles of cost – benefit analysis Integrating environmental considerations Real – world applications and case studies 	SWU 2	1		
	Topic 5 – Non – Renewable Resources: Economics and Policy	Lecture, hours	Seminar, hours		
Week 5	 Economic principles governing non-renewable resources Hotellling's Rule, scarcity, and exploration Policy implications for fossil fuels, minerals, and other non – renewables 	2	1		
Week 6	Topic 6 – Economics of Renewable Resources	Lecture, hours	Seminar, hours		
	 Dynamics of renewable resources: fisheries, forests, freshwater Concept of Maximum Sustainable Yield Policies for sustainable management 	3			
	Topic 7 – Climate Change Economics	Lecture, hours	Seminar, hours		
Week 7	 Economic theories around climate change Cost inaction VS. Cost of mitigation Market – based solutions: carbon pricing, cap – and – trade 	2	1		



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	• Current discussion and contrast views of climate change		
Week 8	Examination	Lecture, hours	Seminar, hours
	Midterm (Implementation Proposal Report)		3
	Topic 8 – Environmental Policy Instruments, Justice and Equity	Lecture, hours	Seminar, hours
Week 9	 Command – and – control VS. Market – based instruments, taxes, subsidies, and tradeable permits Analysis of policy efficiency and effectiveness Distributional effects of environmental policies with case studies on environmental justice challenges 	2	1
Week 10	Topic 9 – International Environmental Agreements	Lecture, hours	Seminar, hours
	 Challenges in international environmental cooperation Case studies: Kyoto Protocol, Paris Agreement, Montreal Protocol Role of international organizations: UNEP, IPCC and their controversial impact 	2	1
	Topic 10 – Economics of Biodiversity and Conservation	Lecture, hours	Seminar, hours
Week 11	 Valuing biodiversity: instrumental vs. intrinsic values Cost – effectiveness of conservation strategies Case studies on global conservation initiatives 	2	1
Week 12	Topic 11 – Behavioral Economics and the Environment	Lecture, hours	Seminar, hours
	 Understanding human behavior and biases Nudge theory and its application to environmental issues Case studies: single – use plastics, water conservation 	2	1
Week 13	Topic 12 – Sustainability and Development: Integrating Economics, Environment, and Society	Lecture, hours	Seminar, hours
	 The Environmental Kuznets Curve hypothesis Sustainable development goals and their economic implications and role of decision – making Strategies for achieving a balance between economic growth, environmental protection, and social equity 	2	1



Co-funded by the European Union

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Week 14	Examination	Lecture, hours	Seminar, hours	
	• Final (Completed Report)		3	
RECOMMENDED SOURCES				

Compulsory literature:

1. Callan, Scott J. and Thomas, Janet M. 2007. Environmental Economics and Management: Theory, Policy, and Applications. Thomson South-Western. (CC)

2. Field, Barry C. and Field, Martha K. 2006. Environmental Economics: An Introduction. 4th Ed. McGraw-Hill. (FF)

3. Turner, Pearce, and Bateman. 1994. Environmental Economics: An Elementary Introduction. Harvester Wheatsheaf. (TB)

4. Wagner, Gernot, and Martin Weitzman. Climate Shock. Princeton University Press, February 22, 2015.

5. Henderson, Rebecca, Gulati, Ranjay, and Michael Tushman. Leading Sustainable Change: An Organizational Perspective. Oxford University Press, January 29, 2015.

6. Jorgenson, Dale W., Richard J. Goettle, Mun S. Ho, and Peter J. Wilcoxen. "Double Dividend: Environmental Taxes and Fiscal Reform in the United States." Cambridge, Massachusetts: MIT Press. November 2013.

Suggested reading:

1. Janet M. Thomas and Scott J. Callan (2010) "Environmental Economics: Applications, Policy, and Theory". South-Western Cengage Learning: USA.

2. Tom Tietenberg and Lynne Lewis (2018) "Environmental and Natural Resource Economics". Routledge: USA.

 Barry C. Field and Martha K. Field (2009) "Environmental Economics: An Introduction" McGraw-Hill
 Stavins, Robert N. Economics of Climate Change and Environmental Policy: Selected Papers of Robert N. Stavins, 2000-2011. Northampton, Massachusetts: Edward Elgar Publishing, Inc. 2013.
 Stavins, Robert N. Economics of the Environment. New York: W.W. Norton. January 2012.
 Handarson, Pabassa, and Pichard G. Nawall, eds. Accelerating Energy Inposation: Insights from

6. Henderson, Rebecca, and Richard G. Newell, eds. Accelerating Energy Innovation: Insights from Multiple Sectors. University of Chicago Press for National Bureau of Economic Research, 2011.

Selected internet sources:

1. Environmental attitudes among Europeans: the moderating effects of volunteering and sports club membership Authors Christoph BührenPamela Wicker

Content type:Research ArticlePublished: 23 July 2023

https://link.springer.com/article/10.1007/s10018-023-00373-1

2. Tsiarapas, A., Mallios, Z. Estimating the long-term impact of market power on the welfare gains from groundwater markets. *Environ Econ Policy Stud* 25, 377–406 (2023). https://doi.org/10.1007/s10018-023-00368-y

3. akita, A., Zhang, D. Environmental policies with variable pollution intensity in a differentiated oligopoly. *Environ Econ Policy Stud* 25, 269–283 (2023). https://doi.org/10.1007/s10018-022-00358-6

- Aldy, Joseph E., and Robert N. Stavins, eds. Post-Kyoto International Climate Policy: Implementing Architectures for Agreement. Cambridge, UK: Cambridge University Press, 2010. https://www.tandfonline.com/doi/abs/10.1080/19390459.2011.604555
- 5. Robert N. Stavins, and Joseph E. Aldy, eds. (2009). Post-Kyoto International Climate Policy: Summary for Policymakers. Cambridge, UK: Cambridge University Press. September 2009. https://www.belfercenter.org/publication/post-kyoto-international-climate-policy-summary-policymakers
- 6. Aldy, Joseph, and Robert N. Stavins, eds. (2007). Architectures for Agreement Addressing Global Climate Change in the Post-Kyoto World. UK: Cambridge University Press. https://www.belfercenter.org/publication/architectures-agreement-addressing-global-climate-change-post-kyotoworld





ASSESSMENT CRITERIAAssignment / WorkshopMaximum 25 pointsMidterm (Implementation Proposal Report)Maximum 35 pointsFinal (Completed Report)Maximum 40 points

