

Course title: Environmental Economics				
Course code: MPP 147	No. of credits: 2	L-T-P: 28-00-00	Learning hours: 28	
Pre-requisite course code and title (if any): NA				
Department: Business Sustainability				
Course coordinator: Dr. Gopal Sarangi		Course instructor: Dr. Gopal Sarangi		
Contact details:				
Course type: Core		Course offered in: Semester 2		
Course description:				
<p>This course will familiarize students with the theory and application of economics to environmental problems and prepare them for analyzing issues in environmental economics and policy. It will focus on the design of cost-effective environmental policies and on methods for determining the value of environmental amenities. The course consists of lectures, student led discussions, student presentations, and other assignments. To achieve the course objectives, active participation in class and timely completion of assignments are important. Students are also expected to search for currently debated environmental problems and policies in India and other countries that would trigger discussions in the class, especially during tutorials. The course relies on select mathematical methods and techniques such as differentiation, select methods in econometrics.</p>				
Course objectives:				
<ul style="list-style-type: none"> - To develop understanding of the key concepts of environmental economics and their relevance in the business settings - To equip students to apply tools of environmental economics in resolving business problems 				
Course contents				
Module	Topic	L	T	P
1	Module 1: What is environmental economics? Why is it important for business? Links with economics of sustainability.	2		
2	Module 2: <i>Tools of Economic Analysis:</i> Market failure, and Economic modelling of pollution <ul style="list-style-type: none"> • Market failure & Incomplete markets • Externalities • Non-exclusion and the commons • Non-rivalry & public goods • Non-convexities & Asymmetric information 	6		
3	Module 3: <i>Government Intervention in Environmental Policy:</i> Should the government intervene? <ul style="list-style-type: none"> • Command and control policies • Emission fee and subsidies • Tradable permits & voluntary environmental compliance 	6	2	0
	Module 4: <i>Valuing Environmental Benefits & Costs:</i> Indirect valuation techniques, direct valuation techniques, and environmental accounting	6	2	0

	Module 5 :Issues related to International trade and environment:	4	0	0
	<ul style="list-style-type: none"> • International trade and environment linkages • Global environmental issues 			
	Total	24	4	0
Evaluation criteria:				
<ul style="list-style-type: none"> ▪ 1 Term paper : 15% ▪ 1 Quiz : 10% ▪ 1 minor test : 30% ▪ 1 major test (end semester) : 45% 				
Learning outcomes:				
<ul style="list-style-type: none"> - Understand the nexus between environmental and business decision complexities - Analyse and interpret the environmental implications of business decisions 				
Pedagogical approach:				
A combination of class-room teaching, interactions, tutorials, assignments.				
Materials:				
Suggested readings				
<ol style="list-style-type: none"> 1. Nick Hanley, Jason F Shogren and Ben White. Environmental Economics in Theory and Practice. Macmillan Publishers India, 1997. 2. Tietenberg, T. Environmental and Natural Resource Economics, Harper Collins, 1994. 3. Kolstad Charles D. Environmental Economics. Oxford University Press, 2003. 				
Additional resources like research papers and online videos and tutorials would be shared during the course.				
Additional information (if any):NA				
Student responsibilities:				
Attendance, feedback, discipline: as per university rules.				

Course reviewers:

1. Dr. Sunkanya Das, Assistant Professor, Madras School of Economics, Chennai
2. Dr. Subir Sen, Assistant Professor, IIT Roorkee