

Syllabus template

Semester: IV	
Course: SEC	
Paper Title: ECONOMICS FOR SUSTAINABLE ENVIRONMENT	
Paper code: S2EC230421T	Credits: 3
Hours/week: 3	
Category: Core/MDC/SEC/VAC: SEC	
Theory / Practical / Composite: Theory	
No of Modules: 2	
Course Overview: 1) Define key concepts in environmental economics such as externalities. 2) Defining the concept of total economic value of the environmental goods. 3) Studying the various methods of valuation of environmental goods for impact assessment. 4) Understanding the different types of environmental policy instruments, including command and control policies, price based and quantity-based instruments. 5) Critically analysing the importance of Coasean bargaining problem in this area of study. 6) Studying the importance of collective action in solving problems associated with environment and resource base of an economy.	
Course Outcome:	
Module 1	
1. Outline the basic concepts of environmental economics.	
2. Describe the methods of valuation of environment.	
3. Illustrate the various techniques of measuring Total Economic Value.	
4. Analyze the models of the methods of valuation such as objective, subjective, direct and indirect methods of valuation.	
5. Critically discuss the differences in applications of the various techniques.	
6. Create an idea about the basic concepts of environmental economics and their applications.	
Module 2	
1. Understanding the basic concepts of environmental policies.	
2. Discuss the importance of policies of environmental economics.	
3. Determine the methods of command-and-control policies, price-based instruments, quantity-based instruments, mixed instruments, Coasean Bargaining Problem and collective action	
4. Diagrammatically illustrate the policy instruments for protecting the environment along with facilitating economic activities.	
5. Critically evaluate environmental policy instruments and their implementation.	
6. Create an idea about the basic concepts of environmental policies and their applications.	
Prerequisites: <i>Basic knowledge about microeconomics</i>	

SYLLABUS				
UNIT/Module	CONTENT	HOURS or NUMBER OF CLASSES	CO Mapping	COGNITIVE LEVEL
1	Introduction to environmental economics: key concepts Valuing the environment: concept of total economic value, objective standard based valuation, subjective preference-based valuation, indirect and direct methods of environmental valuation. (Basic concepts only).	2 classes per week	CO1-CO6	K1-K6
2	Environmental policy instruments and implementation: command and control policies, price-based instruments, quantity-based instruments, mixed instruments, Coasean Bargaining Problem and collective action (basic concepts only)	1 class per week	CO1-CO6	K1-K6
Text Books				
1. Bhattacharya R: Environmental economics: An Indian Perspective. Oxford India Paperbacks.				
2. Charles Kolstad: (a) Intermediate Environment Economics				
(b) Environment economics				
Suggested readings				
1.				
2.				
3.				
Web Resources				
1.				
2.				
Evaluation CIA: 15 marks			Semester Exam: 35 marks	

Paper Structure for Theory Semester Exam Module:			
Module No	Questions to be Answered	No. of Alternatives	Marks
1	2	3	2x10=20
2	2	3	2x7.5=15
			TOTAL = 35

Course outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive levels
Module 1		
CO1	Outline the basic concepts of environmental economics.	K1
CO2	Describe the methods of valuation of environment.	K2
CO3	Illustrate the various techniques of measuring Total Economic Value.	K3
CO4	Analyze the models of the methods of valuation such as objective, subjective, direct and indirect methods of valuation.	K4
CO5	Critically discuss the differences in applications of the various techniques.	K5
CO6	Create an idea about the basic concepts of environmental economics and their applications.	K6
Module 2		
CO1	Understanding the basic concepts of environmental policies.	K1
CO2	Discuss the importance of policies of environmental economics.	K2
CO3	Determine the methods of command-and-control policies, price-based instruments, quantity-based instruments, mixed instruments, Coasean Bargaining Problem and collective action	K3
CO4	Diagrammatically illustrate the policy instruments for protecting the environment along with facilitating economic activities.	K4
CO5	Critically evaluate environmental policy instruments and their implementation.	K5
CO6	Create an idea about the basic concepts of environmental policies and their applications.	K6