Course Report
(Bachelor)

Course Title:	**Environmental Economics**
Course Code:	**EVS 1026**
Program:	**Environmental Science**
Department:	**Biology**
College:	**Science**
Institution:	**Imam Mohammad Ibn Saud Islamic University**
Version:	**1**
Last Revision Date:	**-**

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: 2 (Lecture 2+ 0+ 0)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☐ Required		☒ Elective		
3. Level/year at which this course is offered: (Not determined)					
4. Course General Description:					
This module aims to provide you with an introduction to and an overview of environmental economics. The objective of the course is to show how economic analysis can help identify the causes of environmental degradation and the policy measures to deal with environmental problems.					
5. Pre-requirements for this course (if any)**:**					
EVS 1110					
None					
7. Course Main Objective(s):					

- understand the emergence of environmental concerns in economics.
- explain various models of economy-environment interdependence.
- understand basic economic concepts and tools used in the analysis of environmental problems;
- outline the process of doing a cost-benefit analysis, have a clear understanding of the problems in using cost-benefit analysis for environmental management.
- provide an overview of various concepts of value, the economic rationale for the monetary valuation of the environment and an understanding of valuation methods.
- understand the various policy instruments used in environmental management and how to choose among them in the political context.
- provide an economic analysis for ecosystem services, air pollution, water pollution or solid waste.
- explain the relationship between economic growth, energy, and the environment.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	√	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning	-	-
4	Distance learning	-	-

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	0
3.	**Field**	0
4.	**Tutorial**	0
5.	**Others (specify)**	0
Total		30

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Method

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Clarify the emergence of environmental concerns in economics	K1	Lecture and take-home research assignment	Quizzes, midterm exam and final exam
1.2	Explain various models of economy-environment interdependence.	K2	Lecture and take-home research assignment	Quizzes, midterm exam and final exam
1.3	Outline the basic economic concepts and tools used in the analysis of environmental problems	K3	Lecture and take-home research assignment	Quizzes, midterm exam and final exam

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.0	**Skills**			
2.1	Relate between the various concepts of value, the economic rationale for the monetary valuation of the environment and the valuation methods	S1	take-home research assignment	activity and exam
2.2	Perform the cost-benefit analysis, and show a clear understanding of the problems in using cost-benefit analysis for environmental management.	S2	take-home research assignment	activity and exam
2.3	Use computers and the internet to analyze the economy-environment interdependence.	S3	take-home research assignment	activity and exam
3.0	**Values, autonomy, and responsibility**			
3.1	Show independence and responsibility and cooperate effectively in a team to carry out research work	V1	Group discussions	-Presentations -Reports
3.2	Share in the discussion of scientific issues and present research results via oral presentations and in written format.	V2	Group discussions	-Presentations -Reports

C. Course Content

No	List of Topics (lectures)	Contact Hours
1.	History and ethics of economic approaches to environmental management and policy	4
2.	Economy-environment relationships	4
3.	Basic economic concepts and tools	4
4.	Economic analysis	4
5.	Economic valuation of environmental benefits	4
6.	Economic approaches to environmental policy	4
7.	Economics of biodiversity loss and ecosystem services	2
8.	Economics of pollution and waste	2
9.	Green Economics	2
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm exam 1	5th week	15%
2.	Midterm exam 2	10th week	15%
3.	Quizzes, Participation, Attendance	During the semester	10%
4.	Research assignment	During the semester	20%
5.	Final Exam	16 th week	40%
Total			100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Tietenberg & Lewis, 2009. Environmental and Natural Resource Economics. 9th edition
Supportive References	Goulder & Parry, 2008. Instrument Choice in Environmental Policy. Review of Environmental Economics and Policy, 2(2): 152-174. 2. Shortle, J. 2013. Economics and Environmental Markets: Lessons from Water-Quality Trading. *Agricultural and Resource Economics Review*, 42(1): 57-74
Electronic Materials	• Saudi Digital Library https://www.sdl.edu.sa/SDLPortal/Publishers.aspx
Other Learning Materials	Videos, slides and presentations

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms and Laboratories
Technology equipment (projector, smart board, software)	Projector and Smartboard
Other equipment (depending on the nature of the speciality)	-

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Direct
Effectiveness of Students assessment	Program Leader	Direct
Quality of learning resources	Peer Reviewer	Indirect
The extent to which CLOs have been achieved	Program Leaders	Direct
Other	-	-

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**Biology Department Council**
REFERENCE NO.	**2**
DATE	**21/02/1446 H**