

Course Specification

— (Postgraduate Programs) عبدالمحسن بن عبدالعزيز آل سعود

Course Title: Environmental Economics

Course Code: BIO-6026

Program: Master of Science in Applied Biology (Biodiversity, Wildlife Conservation & Management)

Department: Biology عبدالمحسن بن عبدالعزيز آل سعود

College: Science

Institution: Imam Mohammad Ibn Saud Islamic University

Version: 1

Last Revision Date: Pick Revision Date.

Services and Facilities:.....
عبد المحسن بن الحارث بن يزيد بالله الرحمن رحمة الناصر

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عبد المحسن بن أبي الحزري به بالله رحمتي الناصر



A. General information about the course:

1. Course Identification:

1. Credit hours: 2(Lectur 2 + Lab 0)

2. Course type

A. ☐ University ☐ College ☐ Department ☒ Track

B. ☐ Required ☒ Elective

3. Level/year at which this course is offered: (Undetermined level)

4. Course General Description:

The study of environmental economics provides a means for understanding how the incentives that underlie human decision-making impact the environment and the design of environmental policy. In this course, we will apply fundamental economic theory to analyze a broad range of contemporary environmental issues. We will take a closer look at issues related to pollution and the management of natural resources including water, energy, global climate change, international trade, and environmental politics as they each present challenges in a policy setting.

5. Pre-requirements for this course (if any):

6. Co-requisites for this course (if any):

7. Course Main Objective(s):

- Describe the economic perspectives on modern environmental issues.
- Demonstrate and relate the economic theories related to natural resources, with an emphasis on the strengths and weaknesses of alternative viewpoints.
- Demonstrate that economic objectives do not necessarily conflict with environmental goals, and that markets can be harnessed to improve environmental quality.
- Discuss the limitations of economic analysis to provide policy guidance on environmental issues.
- discuss and apply the concepts of renewable and nonrenewable resources, pollution, global climate change, international trade, and environmental politics.
- The potential of economics helping societies achieve their environmental goals.



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	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
	Total	30

B. Course Learning Outcomes, Teaching Strategies, Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Understand the emergence of environmental concerns in economics	1.1	Two credits weekly lectures	-Quizzes -Presentations -Assignments -written exams

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.2	Explain various models of economy-environment interdependence.	1.2	Two credits weekly lectures	Quizzes -Presentations -Assignments -written exams
1.3	Demonstrate an ability to apply and Understand basic economic concepts and tools used in the analysis of environmental problems	1.3	Two credits weekly lectures	Quizzes -Presentations -Assignments -written exams
2.0	Skills			
2.1	Assess the process of doing a cost-benefit analysis, have a clear understanding of the problems in using cost-benefit analysis for environmental management	2.1	-Two credits weekly lectures -Tutorials	-Presentations -Assignments -written exams
2.2	To build capacity to understand the various concepts of value, the economic rationale for the monetary valuation of environment and an understanding of valuation methods	2.2	-Two credits weekly lectures -Tutorials	-Presentations -Assignments -written exams
3.0	Values, autonomy, and responsibility			
3.1	Show independence and responsibility and cooperate effectively in a team to carry out research work	3.1	Group discussions	-Presentations -Reports
3.2	Discuss the scientific issues and present research results via oral presentations and in written format.		Group discussions	-Presentations -Reports

C. Course Content:

No	List of Topics	Contact Hours
1.	Overview of environmental and ecological economics Concepts of ecological economics	2

2.	National income and environmental accounting Economic perspectives on the environment	3
3.	Environmental externalities Environmental valuation	2
4.	Resource allocation over time Common property and public goods	3
5.	Managing renewable resources Economy/environment interactions	3
6.	Energy and the environment Global climate change	3
7.	Trade and the environment Consumption, poverty, environment	2
8.	Institutions for sustainable development Sustainable development	2
Total		30

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm exam-1	5 th week	20%
2.	Midterm exam-2	10 th week	20%
3.	Assignments, presentations, attendance, data search, participation	Throughout the course duration	20%
4.	Final exam	16 th week	40%

*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	<i>Environmental and Natural Resource Economics: A Contemporary Approach, Second Edition</i> by Jonathan M. Harris, Houghton-Mifflin (2006)
Supportive References	

Electronic Materials	
Other Learning Materials	

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom
Technology equipment (Projector, smart board, software)	Projector, smart board
Other equipment (Depending on the nature of the specialty)	

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of students assessment	Faculty	Direct
Quality of learning resources	Faculty	Direct
The extent to which CLOs have been achieved	Faculty	Direct
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	BIOLOGY DEPARTMENT COUNCIL
REFERENCE NO.	23
DATE	23/8/1445