

**Faculty of Economics and Political Science**

**Environmental Economics**

**Information :**

**Course Code :** ECO 206

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Economics

**Area Of Study :**

This course focuses on the relationship between the environment and the economic behavior of individuals and groups using microeconomic analytical tools. It includes a clear definition on environmental economics; it also introduces different methods of project impact on the environment with a special focus on cost-benefit analysis technique. It highlights the concepts of: externalities, standards, as well as different environmental policy techniques by governments with a special regard on the Egyptian case.

**Course Goals:**

- Define Environmental Economics and its related topics.
- Teach the students the relationship between economics and the environment.
- Teach students how to use the tools of economic analysis to study environmental issues.
- Familiarize students with cost-Benefit analysis.
- Introduce students to major global environmental issues, and agreements.
- Acquaint students with the Egyptian stance on different Environmental concerns and Policies.

**Description :**

This branch of science tries to shed light on the relationship between the environment and the economic behavior of individuals and groups using microeconomic analytical tools. It includes a clear definition on environmental economics; it also introduces different methods of project impact on the environment with a special focus on cost-benefit analysis technique. It highlights the concepts of: externalities, standards, as well as different environmental policy techniques by governments with a special regard on the Egyptian case.

**Course outcomes :**

**a. Knowledge and Understanding: :**

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|-----|---|
| 1 - | List the most pressing International and Global Environmental Issues. |
| 2 - | Recognize the basic tools used in Environmental Analysis.             |
| 3 - | Define the concepts related to the environmental field.               |
| 4 - | Relate different environmental policies.                              |

**b. Intellectual Skills: :**

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| 1 - | Point out the importance of sustainability.  |
| 2 - | Distinguish between the different market structures and their impact on the environment.   |
| 3 - | Outline the tradeoff between the present and the future in taking environmental decisions. |

**c. Professional and Practical Skills: :**

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|-----|---|
| 1 - | Apply Cost-Benefit analysis in assessing environmental projects |
|-----|---|

2 -	Interpret the importance of developing sound environmental policies addressing current issues with a special reference to Egypt.
3 -	Compare and contrast different environmental programs.

**d.General and Transferable Skills :**

1 -	Develop problem solving skills.
2 -	Enhance innovative and know-how skills working towards results.
3 -	Gain confidence to work towards solutions.
4 -	Develop a sense of responsibility towards society.
5 -	Experience with conceptual frameworks effective for problem solving and decision making.
6 -	Acquire analytical reasoning skills, numeric and clear effective communication skills.
7 -	Test the ability of students to work under pressure and as part of a team.

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introductory Lecture and Course Outline (Chapter 1: The Big Picture)	3	1	
Chapter 6: Environmental Quality	3	1	
Chapter 2 and Appendix: Efficiency and Choice and Readings	6	2	
Chapter 3: Market Failure	3	1	
Chapter 10: Biodiversity and Valuation	3	1	
Mid-term Exam		1	
Chapter 5: Trade-offs and the Economy	3	1	
External Readings: a. Designing Policy to Influence Consumers b. Standards (External Readings)	6	2	
Chapter 8: Sustainability	3	1	
Chapter 9: Population, Poverty, and Economic Growth	3	1	
Environmental Agencies and Major Problems in Egypt	3	1	
Final Discussion and Papers Presentation	3	1	
Final Exam		1	

**Teaching And Learning Methodologies :**

Demonstration videos
Presentations
Group discussion
Research Paper

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Course Work (Attendance, Participation, Assignments, Quizzes, Research Paper) D	30.00		To assess understanding and to assess analytical skills.
Final Exam	40.00	15	To assess knowledge and intellectual skills.
Midterm Exam(s)	30.00	7	To assess professional skills.

**Periodicals :**

1. Designing Policy to Influence Consumers, Available at:  
[http://ec.europa.eu/environment/enveco/pdf/RealWorld\\_Briefing1Overall.pdf](http://ec.europa.eu/environment/enveco/pdf/RealWorld_Briefing1Overall.pdf)
2. Frank Wijen and Rob van Tulder, Integrating Environmental and International Strategies in a World of Regulatory Turbulence, California Management Review, Vol. 53, No. 4, Summer 2011.
3. P. Elefsiniotis and D. G. Wareham, ISO 14000 Environmental Management Standards: Their Relation to Sustainability, Journal of Professional Issues in Engineering Education and Practice, July 2005.

**Web Sites :**

1. Gerald Shively and Marta Galopin, An Overview of Benefit-Cost Analysis, Available at:  
<http://www.agecon.purdue.edu/staff/shively/COURSES/AGEC406/reviews/bca.htm>