

COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	TECHNOLOGY		
DEPARTMENT	ENVIRONMENTAL SCIENCES		
LEVEL OF STUDY	<i>Undergraduate</i>		
COURSE UNIT CODE	NEW COURSE	SEMESTER	3
COURSE TITLE	ENVIRONMENTAL ECONOMICS		
INDEPENDENT TEACHING ACTIVITIES in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits		WEEKLY TEACHNG HOURS	CREDITS
THEORETICAL BACKGROUND		4	5
LABORATORY PRACTICE			
TOTAL		4	5
COURSE TYPE Background knowledge, Scientific expertise, General Knowledge, Skills Development	Background		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION & EXAMINATION/ASSESSMENT:	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES		
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

<p>Learning Outcomes The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:</p> <p>APPENDIX A</p> <ul style="list-style-type: none"> • Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework. • Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and <p>APPENDIX B</p> <ul style="list-style-type: none"> • Guidelines for writing Learning Outcomes
<p>1. General aims – General learning outcomes</p> <p>The aim of the module is</p> <p>1. To contribute in the understanding by the students of the deep two-way interdependence between nature and economics by highlighting that the biggest challenge for people's prosperity is the preservation of the good relation between the natural environment and the economy. and therefore</p>

the causes of degradation in nature are revealed and related to the public cures for proper management and protection of the environment as the foundation for sustainable spatial development , and

2. To offer the possibility to students to be able to acquaint the knowledge necessary (methods and techniques) for the application of analytical tools and paradigms of the economic theory in environmental problems.

How are they specialized in the following categories:

1.1. Knowledge

The module aims in:

1. Proven knowledge and understanding of concepts and methods of the economics of the environment and of natural resources.
2. The concept of the impact of production and consumption of goods and services in the environment using an applied methodological analysis framework that can be used for the solution of real environmental problems.
3. Acquisition of abilities for critical analysis, evaluation and synthesis of complex and multidimensional concepts , and
4. The promotion of progress within the knowledge society.

1.2. Skills

At the end of the module the students will be able to get skills for general overview from an economic point of view , in contemporary environmental issues, (like the degradation of the environment, the decrease of the ozone layer, the climatic change, the acidification, the energy crisis, the food crisis, the correct management of coastal areas and fishing, etc) and also the issues arising from (hyper) exploitation of natural resources.

1.3. Abilities

By the end of the module, the students will be able to:

- Understand the correlation of Economy and the Environment, defining and explaining various important relevant to the environment concepts and terminology,
- Deepen in theoretical foundations of Economics of the Environment and Natural Resources, and finally
- Analyse the known environmental problems, at international level, focusing on the methods used to solve them

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

Search for, analysis and synthesis of data and information by the use of appropriate technologies, Adapting to new situations Decision-making Individual/Independent work Group/Team work Working in an international environment Working in an interdisciplinary environment Introduction of innovative research

Project planning and management Respect for diversity and multiculturalism Environmental awareness Social, professional and ethical responsibility and sensitivity to gender issues Critical thinking Development of free, creative and inductive thinking (Other.....citizenship, spiritual freedom, social awareness, altruism etc.)

Οι γενικές ικανότητες που θα πρέπει να έχει αποκτήσει ο φοιτητής/φοιτήτρια και στις οποίες αποσκοπεί το μάθημα είναι:
(Αναφέρετε ικανότητες από τις παραπάνω ή συνδυασμούς αυτών που θα τεκμηριώνονται με συγκεκριμένα στοιχεία της εκπαιδευτικής διαδικασίας του μαθήματος)

The module aims in developing the following abilities:

- Adaptation to new situations (exploratory analysis of future developments/scenaria)
- Decision making
- Writing of an assignment in a multi-disciplinary environment
- Critique and self-critique
- Writing autonomously within a group of an assignment in a future interdisciplinary environment.
- Respect for the natural environment
- Promotion of free, creative and inductive thinking

The above are Τα παραπάνω secured from the lecture content, the active participation during lectures, the assignments to be submitted in the module and their presentations.

(3) COURSE CONTENT

The module covers the deep two-way interdependence of economics with the natural environment in space, the emphasis being on the economics related to the environment and the application of analytical tools and paradigms of economic theory in environmental problems. The module includes the following thematic areas:

1. Introductory concepts and terminology of the economics of the environment and natural resources – Interdependence of Economics and Environment
2. Environmental thinking in Economics – The main currents of thought
3. Economics of Prosperity and the Environment: Distinctions of goods – Productivity curve – Partial and general equilibrium
4. Theory of externalities, property and environmental rights
5. Environmental policy measures: Immediate settings – Financial means
6. Economic evaluation of the environment: Concepts
7. Economic evaluation of the environment: Methods
8. Excellency in natural resource management: Theory of exhaustible natural resources – Theory of renewable natural resources – Transition from exhaustible to renewable natural resources
9. Analysis of environmental problems: Energy, acidification
10. Analysis of environmental problems: the greenhouse effect and the ozone hole.
11. Analysis of environmental problems: biodiversity, desertification
12. Analysis of environmental problems: liquid and solid waste, sea pollution

Review of taught material

(4) TEACHING METHODS-ASSESSMENT

MODES OF DELIVERY Face-to-face, in-class lecturing, distance teaching and distance learning etc.	<ul style="list-style-type: none"> • Lectures 	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY Use of ICT in teaching, Laboratory Education, Communication with students	<ul style="list-style-type: none"> • Use of software for presentations, internet and teleconferencing platform. • Communication via e-mail. • Use of the e-class. platform 	
COURSE DESIGN Description of teaching techniques,	Activity/Method	Semester workload
	Lectures	25

<p>practices and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc.</p> <p>The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.</p>	Workshop	30
	Laboratory work	25
	Theory study	45
	Weekly individual evaluation reports for laboratory exercises	125
	Course total (25 hours of workload per credit unit)	25
<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS Detailed description of the evaluation procedures:</p> <p>Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other.....etc.</p> <p>Specifically, defined evaluation criteria are stated, as well as if and where they are accessible by the students.</p>	<p><u>Evaluation</u></p> <ul style="list-style-type: none"> • Optional assignment = 40% • Final exam = 60% or 100% if there is no assignment 	

(5) SUGGESTED BIBLIOGRAPHY:

-Suggested bibliography

Προτεινόμενη Βιβλιογραφία :

- Vlachou, A., 2001,(In Greek) Environment and physical resources, Volume A, Kritiki Publications
- Bithas, K. , 2004, Economic Theory of Environmental Protection, Typotheto Publications
- Halkos, G., 2016, Economics of Natural Resources & Environment, Athens: Disigma Publications
- Faucheux S., Noel J.F. (2007), Economics of Natural Resources & Environment, Athens,,: GUTENBERG.Publications
- Pearce D. (2002), An Intellectual History of Environmental Economics, Annual Review of Energy and the Environment, 27:57–81.
- Stavins N.R., 2008), "Environmental economics," The New Palgrave Dictionary of Economics, 2nd Edition.
- Tietenberg T., Lewis L., 2010, Economics of Natural Resources & Environment, GUTENBERG.Publications
- Field B. & Field M. (2020) (In Greek) Environmental Economics, Broken-Hill Publishers
- Arabatzis G. & Polyzos S. (2008) Natural Resources, Environment And Developemnt, Tziolas & Sons Publications

-Complementary bibliography

Lecture presentations are available on eclass.

