COURSE OUTLINE

(1)GENERAL

SCHOOL	SCHOOL OF INTERNATIONAL STUDIES COMMUNICATION & CULTURE		
ACADEMIC UNIT	DEPARTMENT OF INTERNATIONAL, EUROPEAN AND AREA STUDIES		
LEVEL OF STUDIES	POSTGRADUATE PROGRAMME		
COURSE CODE	12M149	**SEMESTER**	A’
COURSE TITLE	ECONOMICS OF THE ENVIRONMENT AND ENERGY		

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	**WEEKLY TEACHING HOURS**	**CREDITS**
	3	7.5
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Special background, specialised, skills development
PREREQUISITE COURSES:	No
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek and English
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes
COURSE WEBSITE (URL)	

(2)LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The course aims to familiarize students with the tools and methods of economic science in the application of environmental and energy policy, in the economic assessment of the environment, in the optimal management of natural resources, and in addressing/solving fundamental environmental problems. The intended learning outcomes after the successful completion of the course are:

- *Understanding the relationship between economy and climate change.*
- *Understanding and proposing the implementation of specific environmental policy measures.*
- *Understanding and applying various methods of economic valuation of the environment.*
- *Understanding theoretical models related to the management of natural resources.*
- *Understanding the economic dimension of specific fundamental environmental issues*

and global problems.

- *Understanding the basic elements of the energy system and the connection of energy with climate change.*
- *Understanding the basic principles governing energy policy in the EU based on the various mechanisms in place.*
- *Understanding the relationship between Energy-Environment-Economy as a unified system.*

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	*Project planning and management*
Adapting to new situations	*Respect for difference and multiculturalism*
Decision-making	*Respect for the natural environment*
Working independently	*Showing social, professional and ethical responsibility and sensitivity to gender issues*
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*.....*
Production of new research ideas	*Others...*
	.....

• Search, analysis, and synthesis of data and information using necessary technologies
• Autonomous work
• Teamwork
• Generation of new research ideas
• Promotion of free, creative, and inductive thinking
• Adaptation to new situations

(3) SYLLABUS

The course is organized into the following main sections:

- The problem of climate change as an economic concept
- Basic principles of Environment and Energy Economics
- Introduction to energy systems
- Economic tools for energy policy (and economics of environmental protection)
- Methods of Economic Assessment and Environment (I)
- Economic Value of Environmental Elements
- Environmental Assessment: Economic and Ecological Models
- Climate change and natural disasters (I)
- Economics of climate change and the energy sector (I)
- Economics of climate change and the energy sector (II)
- The energy aspects of the EU 'Green Deal' and other goals
- EU Emissions Trading System (EU ETS) and Carbon Border Adjustment Mechanism (CBAM)
- Sustainable Development, Agenda 2030, and financial tools
- Energy poverty and the new EU ETS

(4)TEACHING and LEARNING METHODS - EVALUATION

<table>
<tr><td>DELIVERY
Face-to-face, Distance learning, etc.</td><td>Face-to-face</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
Use of ICT in teaching, laboratory education, communication with students</td><td>Use of ICT in teaching and in communication with students</td></tr>
<tr><td>TEACHING METHODS
The manner and methods of teaching are described in detail.
Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</td><td>
<table>
<tr><th>Activity</th><th>Semester workload</th></tr>
<tr><td>Lectures</td><td>40</td></tr>
<tr><td>Seminars</td><td>10</td></tr>
<tr><td>Study of alternative textbooks</td><td>40</td></tr>
<tr><td>Writing assignment/assignements</td><td>77,5</td></tr>
<tr><td>Public presentation and discussions/dialogue</td><td>20</td></tr>
<tr><td>Course total</td><td>187,5</td></tr>
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</td></tr>
<tr><td>STUDENT PERFORMANCE EVALUATION
Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</td><td>Students' assessment is conducted through individual work. Specifically:

Assignment (in English for all students) (50%).
Evaluation of students' participation in discussions/dialogues with arguments during the teaching session on specific topics from material distributed on the same day (30%).
Brief presentation of the assignment topic in class (20%).</td></tr>
</table>

(5)ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Tol, Richard SJ. Climate economics: economic analysis of climate, climate change and climate policy. Edward Elgar Publishing, 2019. (Available online)

- Ackerman, Frank, and Elizabeth Stanton. Climate economics: The state of the art. Routledge, 2013
- Hanley, Nick, Jason Shogren, and Ben White. Introduction to environmental economics. Oxford University Press, 2019. (Available in the Panteion library)
- Hussen, Ahmed. Principles of Environmental Economics: An Integrated Economic and Ecological Approach. Routledge, 2004. (Available online)