COURSE OUTLINE

(1) GENERAL

SCHOOL	Economics and Public Administration		
ACADEMIC UNIT	Economic and Regional Development		
LEVEL OF STUDIES	Postgraduate		
COURSE CODE	800082	**SEMESTER**	**VII'**
COURSE TITLE	**Economics of the Environment, Natural Resources & Sustainable Development**		

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 course, give the weekly teaching hours and the total credits.*	**WEEKLY TEACHING HOURS**	**CREDITS**
	3	7,5
Add rows if necessary. The teaching organisation and methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	specialised general knowledge, skills development
PREREQUISITE COURSES:	No
LANGUAGE OF INSTRUCTION and EXAMINATIONS :	Greek & English
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes
COURSE WEBSITE (URL)	https://openeclass.panteion.gr/courses/TMI249/

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competencies 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 at students' specialization in the critical issues of Environmental Economics and Natural Resources Economics. Furthermore, the course encourages the writing projects for the participant students.
The course's learning outcomes could be briefly described as:

- *The understanding of the basic theoretical and methodological framework of the estimation process of the optimum level of environmental protection and the pricing of natural resources*
- *The comprehension of the economic process as an entropic process in the context of Coupled Human Natural Systems (CHANS)*
- *The comprehension of the Steady State and Degrowth frameworks*
- *The comprehension of climate change and water economics*
- *The ability to perform quantitative and comparative analysis using established frameworks, such as Material Flow Analysis (MFA), Material Footprint & Water Footprint, IPAT, Kaya Identity, and so on.*

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*
Teamwork	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*

Working in an interdisciplinary environment	*Others*
Production of new research ideas	*……*

- Search for, analysis and synthesis of data and information with the use of the necessary technology.
- Project planning and management
- Working independently
- Teamwork
- Production of new research ideas
- Criticism and self-criticism
- Decision-making
- Production of free, creative and inductive thinking
- Adaption in new circumstances

(3) SYLLABUS

The course is structured on the following thematises:

- Pricing and costing of Natural Resources
- The optimal allocation and utilization of renewable and non-renewable resources.
- Economic principles of the sustainable management of Water resources
- Sustainable development
- Urban sustainability
- Coast systems sustainability
- Climate change economic evaluation
- The aggregate scarcity of natural resources
- Steady state economics and degrowth
- Decoupling of economic growth from natural resources and the dependency of economic process on natural resources inputs

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, and communication with students*	*Use of ICT in teaching, laboratory education, and communication with students*
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, projects, 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.*	

Activity	***Semester Workload***
Lectures	50
Study and analysis of bibliography	40
Data Collection and Elaboration/essay writing	62
Public Presentation	35,5
Course Total (25 hours per ECTS)	***187,5***

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.*	Final essay writing and public oral presentation, weekly public presentations on various topics based on the lectures of the course.

(5) ATTACHED BIBLIOGRAPHY

- K. Bithas, P. Kalimeris, "Revisiting the Energy-Development Link. Evidence from the 20th Century for Knowledge-based and Developing Economies".Springer.
- Daly, H. E., & Farley, J. (2011). Ecological economics: principles and applications. Island press.
- Κ. Μπίθας, (2012). «Οικονομική του Περιβάλλοντος και των Φυσικών Πόρων», Εκδόσεις ΙΑΠΑΔ.
- Δ. Παπαϊωάννου, (2010). «Διαχείριση και Πολιτική Περιβάλλοντος», Εκδόσεις ΙΑΠΑΔ
- Γ. Χάλκος, (2013). «Οικονομία και Περιβάλλον», Εκδόσεις LiberalBooks