

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	Faculty of Agriculture and Forestry		
<b>DEPARTMENT</b>	Department of Forestry and Management of the Environment and Natural Resources		
<b>LEVEL OF STUDIES</b>	LEVEL 7		
<b>COURSE CODE</b>	ΔΣΠΜΣΠΣΠΕΒ4Υ	<b>SEMESTER</b>	2 <sup>nd</sup>
<b>COURSE TITLE</b>	PRINCIPLES AND METHODS OF ENVIRONMENTAL MANAGEMENT		
<b>TEACHING ACTIVITIES</b> <i>in case the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to a course as a whole, then please note down the teaching hours per week and the corresponding ECTS Credits.</i>	<b>TEACHING HOURS PER WEEK</b>	<b>ECTS CREDITS</b>	
	2.3	7.5	
<i>Add lines if necessary. The teaching organization and methods used are described in the point 4.</i>			
<b>COURSE TYPE</b> <i>Background, General Knowledge, Scientific Area, Skill Development</i>	Scientific Area		
<b>PREREQUISITES:</b>	No		
<b>TEACHING &amp; EXAMINATION LANGUAGE:</b>	Greek		
<b>COURSE OFFERED TO ERASMUS STUDENTS:</b>	No		
<b>URL COURSE:</b>	<a href="https://eclass.duth.gr/courses/OPE02184/">https://eclass.duth.gr/courses/OPE02184/</a>		

### 2. LEARNING OUTCOMES

#### Learning Outcomes

*Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.*

The aim of the course is the understanding of the basic elements of the ecosystem and the economic system as well as their interactions, to know the economic, social and ecological principles in environmental management, the distinction between ecosystem functions and services and their evaluation, the familiarization with the methods and tools of inventory and analysis of the environment and with practical applications through study of environmental management cases.

Upon successful completion of the course, the student:

- Has understood the basic elements of the natural ecosystem and the economic system, as well as their interactions.
- Knows the economic, social and environmental principles and understands the need for their balanced application in environmental management.
- Has realized the complexity of the analyses necessary for the management of environmental issues and the contribution of modern technology to management.
- Understands the need for an interdisciplinary approach and consultation of proposals for the management of environmental issues.

#### General Skills

*Taking into account the general skills that the graduate must have acquired (as they are listed in the Diploma Supplement and are listed below), which of them is intended (for the course)?*

*Search, analysis and synthesis of data and information, using the necessary technologies*

*Project design and management  
Equity and Inclusion*

<p><i>Adaptation to new situations</i></p> <p><i>Decision making</i></p> <p><i>Autonomous work</i></p> <p><i>Teamwork</i></p> <p><i>Working in an international environment</i></p> <p><i>Working in an interdisciplinary environment</i></p> <p><i>Production of new research ideas</i></p>	<p><i>Respect for the natural environment</i></p> <p><i>Sustainability</i></p> <p><i>Demonstration of social, professional and moral responsibility and sensitivity to gender issues</i></p> <p><i>Critical thinking</i></p> <p><i>Promoting free, creative and inductive thinking</i></p>
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Search, analysis and synthesis of data and information, using the necessary technologies

Autonomous work

Working in an interdisciplinary environment

Respect for the natural environment

Production of new research ideas

Promoting free, creative and inductive thinking

### 3. COURSE CONTENT

1. Introductory concepts (natural environment, ecological balance and human interventions)
2. Interaction between nature and economic system
3. Sustainable Development – Sustainable Management
4. Rationale and scientific basis for sustainable management
5. The economic, social and environmental aspects of sustainable development
6. Sustainable management of ecosystem services
7. Planning the management of ecosystem services
8. Methodology and tools for management planning of ecosystem services
9. Case study: NATURA 2000 network area management
10. Case study: wetland management
11. Paper presentations
12. Paper presentations
13. Paper presentations

### 1. LEARNING & TEACHING METHODS - EVALUATION

<p><b>TEACHING METHOD</b></p> <p><i>Face to face, Distance learning, etc.</i></p>	Face to face and Distance learning	
<p><b>USE OF INFORMATION &amp; COMMUNICATIONS TECHNOLOGY (ICT)</b></p> <p><i>Use of ICT in Teaching, in Laboratory Education, in Communication with students</i></p>	Use of ICT in Teaching and Laboratory Education Electronic communication with students via e-mail or e-class	
<p><b>TEACHING ORGANIZATION</b></p> <p><i>The way and methods of teaching are described in detail.</i></p> <p><i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research &amp; analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.</i></p> <p><i>The student study hours for each learning activity are listed as well as the non-guided study hours so that the total workload at the semester level corresponds to the ECTS standards.</i></p>	<b>Activity</b>	<b>Workload/semester</b>
	Lectures	87.5
	Bibliographic research & analysis	25
	Paper/presentation preparation	75
	<b>Total</b>	<b>187.5</b>
<p><b>STUDENT EVALUATION</b></p> <p><i>Description of the evaluation process</i></p> <p><i>Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test,</i></p>	<p>Final written exam (in Greek)</p> <p>Multiple Choice Test</p> <p>Written Assignment</p>	

*Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Public Presentation, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others*

*Explicitly defined assessment criteria and if and where are accessible to students are mentioned.*

## 2. SUGGESTED BIBLIOGRAPHY

1. Vlachou, A. (2001). Environment and Natural Resources. Economic theory and politics. KRITIKI Publications. 368 p.
2. Moussiopoulos, N., Ntziachristos, L., & Slini, Th. (2015). *Technical environmental protection* [Undergraduate textbook]. Callipos, Open Academic Publications. <https://hdl.handle.net/11419/1009>
3. Tyler Miller G., Scott Spoolman. (2020). Living in the Environment. 20th Edition. Cengage Learning. 832 p

## ANNEX OF THE COURSE OUTLINE

### Alternative ways of examining a course in emergency situations

<b>Teacher (full name):</b>	Spyros Galatsidas, Apostolos Kyriazopoulos, Malamati Papakosta
<b>Contact details:</b>	sgalatsi@fmenr.duth.gr, apkyriaz@fmenr.duth.gr, mpapakos@fmenr.duth.gr
<b>Supervisors: (1)</b>	YES
<b>Evaluation methods: (2)</b>	Written exam through the on-line learning platform e-class/ Supervision through Microsoft Teams
<b>Implementation Instructions: (3)</b>	The course examination will take place with a written individual assignment / report that will be announced in the e-class. All task details and instructions will be contained in the active tools in the "Tasks" submenu.

(1) To be completed with YES or NO

(2) Note down the evaluation methods used by the teacher, e.g.

- *written assignment* or/and exercises
- written or oral examination with distance learning methods, provided that the integrity and reliability of the examination are ensured.

(3) In the **Implementation Instructions** section, the teacher notes down clear instructions to the students:

α) in case of **written assignment and / or exercises**: the deadline (e.g. the last week of the semester), the means of submitting them to the teacher, the grading system, the participation of the assignment in the final grade and every other detail that should be mentioned.

β) in case of **oral examination with distance learning methods**: the instructions for conducting the examination (e.g. in groups of X people), the way of pronouncing topics, the applications to be used, the necessary technical means for the implementation of the examination (microphone, camera, word processor, internet connection, communication platform), the way the hyperlink is sent, the duration of the exam, the grading system, the participation of the exam in the final grade, the ways in which the inviolability and reliability of the exam is ensured and every other detail that should be mentioned.

γ) in case of **written examination with distance learning methods**: the instructions for assigning the topics, the way of submitting the answers, the duration of the exam, the grading system, the participation of the exam in the final grade, the ways in which the integrity and reliability of the exam is ensured and every other detail that should be mentioned.

There should be an attached list with the Student Registration Numbers only of the beneficiaries to participate in the examination.