

COURSE OUTLINE

1. GENERAL

SCHOOL	Agricultural and Forestry Sciences		
DEPARTMENT	Department of Forestry and Management of the Environment and Natural Resources		
LEVEL OF STUDIES	LEVEL 7		
COURSE CODE	ΔΣΠΜΣΠΣΠΕΑΕ1	SEMESTER	2 nd
COURSE TITLE	MANAGEMENT OF NATURAL RESOURCES		
TEACHING ACTIVITIES <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>	TEACHING HOURS PER WEEK	ECTS CREDITS	
	2.3	7.5	
<i>Add lines if necessary. The teaching organization and methods used are described in the point 4.</i>			
COURSE TYPE <i>Background, General Knowledge, Scientific Area, Skill Development</i>	Scientific Area		
PREREQUISITES:	No		
TEACHING & EXAMINATION LANGUAGE:	Greek		
COURSE OFFERED TO ERASMUS STUDENTS:	No		
URL COURSE:	https://eclass.duth.gr/courses/1425300/		

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 framework of European and international policies for the sustainable management of natural resources, to evaluate sustainability through environmental, social and economic criteria, to identify the need for rational planning and evaluation of alternative management decisions.

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.
- Is aware of the framework of European and international policies for natural resources, the rationale and the scientific basis of sustainable management.
- It is able to distinguish environmental, social and economic criteria and evaluate with them alternative natural resource management decisions.

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

Adaptation to new situations

Decision making

Autonomous work

Teamwork

Working in an international environment

Project design and management

Equity and Inclusion

Respect for the natural environment

Sustainability

Demonstration of social, professional and moral responsibility and sensitivity to gender issues

Critical thinking

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

Promoting free, creative and inductive thinking

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 (ecology and economics)
2. Natural ecosystem and natural resources
3. Framework of European and international policies for the sustainable management of natural resources
4. Rationale and scientific basis for sustainable management
5. Economic, social and environmental criteria for sustainable management
6. Methods for assessing natural resources
7. Environmental taxation and management of natural resources
8. Management planning of natural resources
9. Framework for analysis of alternative measures and management decision-making
10. Management of Meadow Resources - Legislation on grazing lands
11. Management of Meadow Resources - Specifications for grazing management plans
12. Management of Meadow Resources in Greece
13. Wildlife management

1. LEARNING & TEACHING METHODS - EVALUATION

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

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
4. Runge, M. C. (2011). An Introduction to Adaptive Management for Threatened and Endangered Species. *Journal of Fish and Wildlife Management*, 2 (2): 220–233.
5. Keller, R. P., Geist, J., Jeschke, J. M., Kühn, I. (2011). Invasive species in Europe: ecology, status, and Policy. *Environmental Sciences Europe*, 23:23.

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Spyros Galatsidas, Apostolos Kyriazopoulos, Malamati Papakosta
Contact details:	sgalatsi@fmenr.duth.gr, apkyriaz@fmenr.duth.gr, mpapakos@fmenr.duth.gr
Supervisors: (1)	YES
Evaluation methods: (2)	Written exam through the on-line learning platform e-class/ Supervision through Microsoft Teams
Implementation Instructions: (3)	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.