



COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL AND FORESRTY SCIENCES				
DEPARTMENT	FORESTRY AND MANAGEMENT OF THE ENVIRONMENT AND				
	NATURAL RESOURCES				
LEVEL OF STUDIES	POSTGRADUATE – LEVEL 7				
COURSE CODE	ΔΣΠΜΣΠΣΠΕΑ4Υ		SEMESTER	2n	d
COURSE TITLE	DIDACTICS OF ENVIRONMENTAL SCIENCE				
TEACHING ACTIVITIES If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.		TEACHING HOURS PER WEEK	1	ECTS CREDITS	
			2.3		7.5
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.					
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	SCIENTIFIC AREA				
PREREQUISITES:	NO				
TEACHING & EXAMINATION LANGUAGE:	GREEK				
COURSE OFFERED TO ERASMUS STUDENTS:	NO				
COURSE URL:	https://eclass.duth.gr/courses/1425284/				

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.

After the successful completion of the course, students will be able to plan, apply and evaluate teaching performances in Environmental Science.

General Skills

Name the desirable general skills upon successful completion of the module

Search, analysis and synthesis of data and information, ICT Use 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 reasoning
Teamwork Search, analysis and synthesis of data and infor	mation

3. COURSE CONTENT







Theoretical foundations of teaching. Didactics as science. Special issues in the theory of teaching.
Objectives of teaching. Taxonomies of educational objectives.
Teaching materials. The concept of teaching materials. Types of teaching materials.
Forms of teaching. The concept of forms of teaching. Direct instruction. Cooperative forms of teaching.
Models of teaching. Model of five stages of learning. Kolb's model. Gross's model. Model combining four ways of learning.
Student evaluation. Principles of evaluation. Evaluation methods.
Exemplary teaching by the teacher.
Exemplary teaching by the teacher.

- Exemplary teaching by students.
- Exemplary teaching by students.
- Exemplary teaching by students.

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD Face to face, Distance learning, etc.	Face to face, distance teaching.			
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) Use of ICT in Teaching, in Laboratory Education, in Communication with students	Use of ICT in Teaching and in Communication with students.			
TEACHING ORGANIZATION The ways 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 supervised and unsupervised workload per activity is indicated here, so that total workload	Activity Lectures Bibliographic research & analysis Exemplary teaching Autonomous study	Workload/semester 30 275 47,5 35		
STUDENT EVALUATION 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, Presentation in audience, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others Please indicate all relevant information about the course assessment and how students are	 Course total Student presentatio Written examinatio Each question in the accompanied by the they answer it correction Students can see the examination sheet it 	187,5 ions. on. he final examination is he grade students will earn if rectly. heir answers in their if they wish.		

5. SUGGESTED BIBLIOGRAPHY







Evangelos Manolas, The Teaching and Learning of Sociological Theory on the Natural Environment, Athens: Tipothito, 2001.

Anastasia Dimitriou, Environmental Education: Environment, Sustainability, Theoretical and Pedagogical Approaches. Thessaloniki: Epikentro Publications, 2009.

Christos Theofilidis, Interdisciplinary Approaches to Teaching, Athens: Grigoris Publications, 1997. G. Tyler Miller & Scott E. Spoolman (P. Dimitrakopoulos & K. Gavrilakis). Environmental Science. Thessaloniki: Tziola Publications, 2018.







ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Evangelos Manolas
Contact details:	emanolas@fmenr.duth.gr
Supervisors: (1)	NO
Evaluation methods: (2)	Team presentations and written examination
Implementation	Multiple choice questions and true false questions. The completion of
Instructions: (3)	student assignments during the semester is a pre-requisite for the participation of students in the written examination.

(1) Please write 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:

a) in case of **written assignment and / or exercises:** the deadline (e.g. the last week of the semester), the means of submission, the grading system, the grade percentage of the assignment in the final grade and any other necessary information.

b) 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 administration of the questions to be answered, the distance learning platforms to be used, the technical means for the implementation of the examination (microphone, camera, word processor, internet connection, communication platform), the hyperlinks for the examination, the duration of the exam, the grading system, the percentage of the oral exam in the final grade, the ways in which the inviolability and reliability of the exam are ensured and any other necessary information.

c) in case of **written examination with distance learning methods**: the way of administration of the questions to be answered, the way of submitting the answers, the duration of the exam, the grading system, the percentage of the written exam of the exam in the final grade, the ways in which the integrity and reliability of the exam are ensured and any other necessary information.

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

