

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	AGRICULTURAL AND FORESTRY SCIENCES		
<b>DEPARTMENT</b>	FORESTRY AND MANAGEMENT OF THE ENVIRONMENT AND NATURAL RESOURCES		
<b>LEVEL OF STUDIES</b>	POSTGRADUATE – LEVEL 7		
<b>COURSE CODE</b>	ΔΣΠΜΣΠΣΠΕΒΕ3	<b>SEMESTER</b>	2nd EDUCATIONAL PERIOD
<b>COURSE TITLE</b>	SUSTAINABLE DEVELOPMENT		
<b>TEACHING ACTIVITIES</b> <i>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</i>		<b>TEACHING HOURS PER WEEK</b>	<b>ECTS CREDITS</b>
		2,3	7,5
<i>Please, add lines if necessary. Teaching methods and organization of the course are described in section 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>	YES		
<b>COURSE URL:</b>	<a href="https://eclass.duth.gr/modules/announcements/?course=1425299">https://eclass.duth.gr/modules/announcements/?course=1425299</a>		

### 2. LEARNING OUTCOMES

#### Learning Outcomes

Learning outcomes of the course are described, the specific knowledge, skills and abilities of an appropriate level that the students will acquire after the successful completion of the course.

*Consult Annex A*

Description of the Level of Learning Outcomes for each study cycle according to the Qualifications Framework of the European Higher Education Area

- Descriptive Indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning

*and Annex B*

- Comprehensive Guide in writing Learning Outcomes

**The purpose of the course is** students to get used with the basic concepts of sustainable development, the effects of the environmental and economic crisis and the need to move into the new era of sustainability

After successful completion of the course students will be able to:

- Understand the concept of sustainable development
- Combine their knowledge and examine the possibilities of utilize financial tools in sustainable development
- Understand the scarcity of resources and the socio – economic implications of natural resource
- Use the available technology to gather information related to sustainable development, process it, analyze it and draw conclusions to improve its implementation
- Have understood and appreciated the importance of sustainable development in the development of a country
- Use their knowledge to improve the environmental performance of businesses

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

*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  
Promoting free, creative and inductive reasoning*

- Autonomous Work
- Teamwork
- Search analysis and synthesis of data and information, using the necessary technologies
- Decision making
- Work in an international environment
- Generating new research ideas
- Respect for the natural environment
- Exercise criticism and self – criticism

### 3. COURSE CONTENT

1. Symptoms, causes, dimensions and effects of the environmental and economic crisis
2. European strategy for sustainable development
3. Factors of production, distribution and the scarcity of resources
4. Socio-economic effects of the use of natural resources
5. Population, economic development, environment and countryside
6. Sustainable development indicators
7. Development phenomenon and third world
8. Financial instruments of the European Union
9. Enterprises and sustainable development
10. The 17 Sustainable Development Goals of the UN

11. Case Studies – Presentations by the students
12. Case Studies – Presentations by the students
13. Case Studies – Presentations by the students

#### 4. LEARNING & TEACHING METHODS – EVALUATION

<b>TEACHING METHOD</b> <i>Face to face, Distance learning, etc.</i>	Face to face	
<b>USE OF INFORMATION &amp; COMMUNICATIONS TECHNOLOGY (ICT)</b> <i>Use of ICT in Teaching, in Laboratory Education, in Communication with students</i>	Use of I.C.T. in teaching and communication with students	
<b>TEACHING ORGANIZATION</b> <i>The ways and methods of teaching are described in detail. 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.  The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.</i>	<b>Activity</b>	<b>Semester workload</b>
	Lectures	30
	Bibliography study and analysis	60
	Study presentation	42,5
	Individual study	45
	<b>Total</b>	<b>187,5</b>
<b>STUDENT EVALUATION</b> <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, 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 informed</i>	<p>Written examination – Questions with essays as answers (50%)</p> <p>Written assignment (50%)</p> <p>Evaluation of the course is been held in Greek language. Students having ascertained dyslexia problems are examined with oral methods.</p> <p>Students have access to his/her essay at any time</p>	

#### 5. ΣΥΝΙΣΤΩΜΕΝΗ ΒΙΒΛΙΟΓΡΑΦΙΑ

- Arabatzis, G., Polyzos S. 2008. Natural resources, environment and development. Tziola editions. Thessaloniki. (In Greek).
- Polyzos, S. 2022. Natural Resource Management and Sustainable Development. Tziola editions. Thessaloniki. (In Greek).
- Halkos, G. 2016. Economics of natural resources and environment. Disigma editions. Thessaloniki. (In Greek).
- Pietzsch, J. (ed. K. Vorgias). (2019). Introduction to Bioeconomy. Tsotras editions. Athens. (In Greek).
- Dimadama, Z. (2022). Sustainable economic development. Integration of the UN 17 Goals. Papazizi editions. Athens. (In Greek).
- Mulligan, M. (2017). An Introduction to Sustainability: Environmental, Social and Personal Perspectives. Second Edition. Taylor and Francis. London.

*-Related scientific journals:*

Journal of Environmental Management, Sustainability, Sustainable Cities, Forest Policy and Economics, Sustainable Development, European Journal of Sustainable Development Research

## ANNEX OF THE COURSE OUTLINE

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

<b>Teacher (full name):</b>	Garyfallos Arabatzis
<b>Contact details:</b>	E-class platform or email to <a href="mailto:garamp@fmenr.duth.gr">garamp@fmenr.duth.gr</a>
<b>Supervisors: (1)</b>	Yes
<b>Evaluation methods: (2)</b>	written examination using remote methods / written project
<b>Implementation Instructions: (3)</b>	The examination in the course will take place through written individual work/project that will be announced in the e-class platform. All project items and instructions will be contained in the active tools in the sub-menu "Tasks". Project should be submitted until last week of the semester via e-class

(1) Συμπληρώνεται με ΝΑΙ ή ΟΧΙ Please write YES or NO

(2) Συμπληρώνεται με έναν ή περισσότερους τρόπους εξέτασης που επιθυμεί ο διδάσκων π.χ. Note down the evaluation methods used by the teacher, e.g.

- γραπτή εργασία ή/και ασκήσεις, *written assignment or/and exercises*
- γραπτή ή προφορική εξέταση με εξ αποστάσεως μεθόδους, υπό την προϋπόθεση ότι εξασφαλίζεται το αδιάβλητο και η αξιοπιστία διενέργειας της εξέτασης. *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 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.

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 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.

c) 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.