

Environmental Management

COURSE OUTLINE

1. GENERAL

SCHOOL	Environment and Agricultural Engineering		
ACADEMIC UNIT	Department of Natural Resources Development & Agricultural Engineering		
LEVEL OF STUDIES	Bachelor		
COURSE CODE	2990	SEMESTER	6 th
COURSE TITLE	Environmental Management		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	WEEKLY TEACHING HOURS	CREDITS	
Lectures	4	4	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Specialised general knowledge		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (English)		
COURSE WEBSITE (URL)			

2. LEARNING OUTCOMES

<p>Learning outcomes <i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • 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 	
1.	The objectives are to enable students to acquire:
2.	Knowledge of the functioning of the natural system that allows life on earth;
3.	The understanding that humanity is part of this system and depends on it
4.	Appreciate the various influences of human activity on the natural system;
5.	Awareness of the management need and human responsibility to keep the system in a healthy state, in a sustainable context
6.	Understanding sustainable development: to meet the needs of the present without undermining the ability of future generations to meet their own needs;
7.	Understanding how local environments contribute to the global environment;
8.	Sensitivity, and a sense of responsibility, for the well-being of the environment and all other life forms that share this planet;
9.	Awareness of their values in environmental matters;
10.	The awareness of our social values subsystems of society,

11. Enhancing the ability to critically review their attitude towards the environment in the light of new knowledge and experience;
12. A knowledge base for further study, personal development and participation in local and global environmental concerns and affairs.

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

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

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Others...

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- Search, analyze and synthesize data and information, using the necessary technologies.
- Adapting to new situations
- Decision making
- Autonomous Work
- Teamwork
- Assessment and Management of Natural Resources Projects
- Respect for social diversity and multiculturalism
- Respect for the natural environment

3. SYLLABUS

The content of these courses is designed to encourage reflection on limits to development and sustainable development:

- Lithosphere-Earth; Evolution eras, land formation, rocks, soils.
- Hydrosphere-hydrological cycle, oceans.
- Atmosphere – air, climate, weather.
- Biosphere, ecosystems, animal populations, human evolution .
- Population: Theories, processes, Demography and environment
- Principles of economic management Social parameters.
- Public participation in environmental decision-making
- Management Methodology – how can the environment be developed in a sustainable way?

4. TEACHING and LEARNING METHODS - EVALUATION

<p style="text-align: center;">DELIVERY <i>Face-to-face, Distance learning, etc.</i></p>	<p>Face-to-face & distance learning Lecture-Based Learning</p> <ul style="list-style-type: none"> ● e-Learning ● Internships and Work-Study Programs ● Field Trips ● Guest Lectures ● Group Projects 																								
<p style="text-align: center;">USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i></p>	<ul style="list-style-type: none"> ● Basic software (windows, word, excel, power point, web, etc) ● AUA webmail ● AI material 																								
<p style="text-align: center;">TEACHING METHODS</p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>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</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td><i>Lectures</i></td> <td style="text-align: center;">48</td> </tr> <tr> <td><i>Individual exercises, essay writing</i></td> <td style="text-align: center;">12</td> </tr> <tr> <td><i>Group work in a case study. Elaboration of project management plans</i></td> <td style="text-align: center;">10</td> </tr> <tr> <td><i>Field trip / Small individual practice assignments</i></td> <td style="text-align: center;">10</td> </tr> <tr> <td><i>Independent Study</i></td> <td style="text-align: center;">20</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Course total</td> <td style="text-align: center;">100</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester workload</i>	<i>Lectures</i>	48	<i>Individual exercises, essay writing</i>	12	<i>Group work in a case study. Elaboration of project management plans</i>	10	<i>Field trip / Small individual practice assignments</i>	10	<i>Independent Study</i>	20											Course total	100
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<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<ul style="list-style-type: none"> ● Midterm Examination: Comprehensive test covering material from the first half of the course. ● Group Projects on Water Resources Management Plans: Groups will develop a practical water management plan for a given scenario. ● Case Study Analysis Presentation: Individual or group analysis of a real-world case study related to water management and in class presentation. ● Final Examination: Cumulative test covering material from the entire course. 																								

5. ATTACHED BIBLIOGRAPHY

- *Suggested bibliography:*

- **Decleris, M., 2000.** *The Law of Sustainable Development.* European Commission, Environment Directorate – General, Brussels.
- **Europe's Environment, 2012.** European Environmental Agency, Copenhagen

- *Related academic journals:*

- *Journal of Environmental Quality*
- *Sustainability*
- *CATENA.*