

COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	TECHNOLOGY		
DEPARTMENT	ENVIRONMENTAL SCIENCES		
LEVEL OF STUDY	<i>Undergraduate</i>		
COURSE UNIT CODE	NEW COURSE	SEMESTER	5 ^o
COURSE TITLE	PROJECT PLANNING AND MANAGEMENT – LEGISLATION		
INDEPENDENT TEACHING ACTIVITIES in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits		WEEKLY TEACHNG HOURS	CREDITS
THEORETICAL BACKGROUND		5	5
LABORATORY PRACTICE			
TOTAL		5	5
COURSE TYPE Background knowledge, Scientific expertise, General Knowledge, Skills Development	SCIENTIDIC AREA: ENVIRONMENTAL PLANNING		
PREREQUISITE COURSES:	NO		
LANGUAGE OF INSTRUCTION & EXAMINATION/ASSESSMENT:	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES		
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

<p>Learning Outcomes</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:</i></p> <p>APPENDIX A</p> <ul style="list-style-type: none"> • Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework. • Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and <p>APPENDIX B</p> <ul style="list-style-type: none"> • Guidelines for writing Learning Outcomes
<p>The aim of the module is :that students</p> <ol style="list-style-type: none"> 1. understand the basic concepts of project planning and management 2. are able to apply the knowledge content in solving technical problems that relate to the protection of the environment from the development of technical projects. 3. are able to evaluatetechnical solutions for the decrease of the environmental footprint of technical

projects.

4. are able to evaluate the impact and implications of technical projects on the environment and propose technical solutions to decrease them.

5. understand the legal and institutional framework that is applicable for the design and management of technical projects in Greece and EU.

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

*Search for, analysis and synthesis of data and information by the use of appropriate technologies, Adapting to new situations
Decision-making
Individual/Independent work
Group/Team work
Working in an international environment
Working in an interdisciplinary environment
Introduction of innovative research*

*Project planning and management
Respect for diversity and multiculturalism
Environmental awareness
Social, professional and ethical responsibility and sensitivity to gender issues
Critical thinking
Development of free, creative and inductive thinking
.....
(Other.....citizenship, spiritual freedom, social awareness, altruism etc.)
.....*

- Review, analysis and synthesis of data and information, using the appropriate technologies.
- Work in an interdisciplinary environment
- Production of new research ideas
- Decision making
- Respect for the natural environment
- Project Design and Management

(3) COURSE CONTENT

1. Introduction - Terminology.
2. Management Principles of Technical Companies
3. Organisation of a construction site.
4. Project design and management information systems .
5. Principles of construction design.
6. Project materials and equipment
7. Project scheduling
8. Financial project planning.
9. Project environmental footprint.
10. Technical project legislation.
11. Hygiene and safety of technical projects and construction site.
12. Holistic design and construction management.
13. Special cases of environmental planning and management.

(4) TEACHING METHODS-ASSESSMENT

<p>MODES OF DELIVERY Face-to-face, in-class lecturing, distance teaching and distance learning etc.</p>	<ul style="list-style-type: none"> • Lectures • Group discussions 														
<p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY Use of ICT in teaching, Laboratory Education, Communication with students</p>	<ul style="list-style-type: none"> • Powerpoint presentations • Video presentations • e-mail communication • e-class platform 														
<p>COURSE DESIGN Description of teaching techniques, practices and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc.</p> <p>The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.</p>	<table border="1"> <thead> <tr> <th><i>Activity/Method</i></th> <th><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>65</td> </tr> <tr> <td>Workshop</td> <td>45</td> </tr> <tr> <td>Laboratory work</td> <td>15</td> </tr> <tr> <td>Theory study</td> <td>125</td> </tr> <tr> <td>Weekly individual evaluation reports for laboratory exercises</td> <td>65</td> </tr> <tr> <td>Course total (25 hours of workload per credit unit)</td> <td>45</td> </tr> </tbody> </table>	<i>Activity/Method</i>	<i>Semester workload</i>	Lectures	65	Workshop	45	Laboratory work	15	Theory study	125	Weekly individual evaluation reports for laboratory exercises	65	Course total (25 hours of workload per credit unit)	45
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Course total (25 hours of workload per credit unit)	45														
<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS Detailed description of the evaluation procedures:</p> <p>Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other.....etc.</p> <p>Specifically, defined evaluation criteria are stated, as well as if and where they are accessible by the students.</p>	<p><u>Evaluation can be done in either Greek or English language.</u> <u>The final grade is the outcome of the following evaluations:</u></p> <ul style="list-style-type: none"> • Written exam: 60% of the final grade (A) • Assignments: 40% of the final grade (B) <p style="text-align: center;">Final grade = 60% (A) + 40% (B)</p>														

(5) SUGGESTED BIBLIOGRAPHY:

-Suggested bibliography

- Polyzos S., 2018. Project Management, Kritiki Publications
- Pantouvakis, P., 2012. Construction project management. Symmetria publications.

- Kougolos, A. Samolada M., 2017, Legislation for the Protection of the Environment, Tziolas Publications
- Spitalas, N. 2016, Technical and Environmental Legislation: Kyriakides SA Publications
- L. Dai, J. Cao, L. Fan and N. Mobed. 2005. Traffic Noise Evaluation and Analysis in Residential Areas of Regina. Journal of Environmental Informatics, 5 (1) pp. 17-25.
- Subramanian, N., Pervious concrete – A ‘green’ material that helps reduce water run-off and pollution, The Indian Concrete Journal, Dec. 2008, Vol.82, No. 12, pp.16-34.
- Kotzen, B., and English, C. (2009) Environmental Noise Barriers: A Guide to Their Acoustic and Visual Design, 2nd Edition, Taylor & Francis, New York, 257 pp.
- Μουρατίδης Α. 2008. Οδοποιία. Η διαχείριση των οδικών έργων. Εκδόσεις: UNIVERSITY STUDIO PRESS.
- State Materials Laboratory and Acoustics Section of Washington State Department of Transportation. 2005. Quieter Pavements: Options and Challenges for Washington State. Washington State Department of Transportation.
- Torres, Helga, et al., Intelligent Construction Systems and Technologies Roadmap, Federal Highway Administration Contract DTFH61-08-D-00019 (2012).

-Complementary bibliography