

COURSE OUTLINE “ENVIRONMENTAL PERMITTING”

(1) GENERAL

SCHOOL	ENGINEERING SCHOOL		
DEPARTMENT	CIVIL ENGINEERING DEPARTMENT		
LEVEL OF STUDIES	POSTGRADUATE		
COURSE CODE	662004	SEMESTER	2 nd
COURSE TITLE	ENVIRONMENTAL PERMITTING		
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	ECTS Credits
Lectures		3	6
<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>	Scientific Area		
PREREQUISITE COURSES:	NO		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	http://www.environmentalprotection.gr/?page_id=152		

(2) LEARNING OUTCOMES

Learning outcomes

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.

Consult Appendix A

- *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*

The specific learning outcome deriving from the topic “Environmental Permitting”, has been designed and is expected to be as follows:

- a) Making the students familiar with the basic ideas and terminology of environmental permitting, the procedure of environmental permitting, as well as the categories of environmental impacts and the main methods and techniques for their prevention or mitigation
- b) Making the students familiar with the current union and national legal framework, as well as of the related regulatory rules.

- c) Making the students familiar with the basic ideas and terminology of strategic environmental assessments (SEA) of plans and programs and the relevant assessment procedures.
- d) Knowledge of the legal obligations of operators as regards environmental permitting.
- e) Identification of the main environmental impacts of the most common projects and methodologies for their quantitative or qualitative assessment.

Upon the successful completion of the course, it is expected that the students will be able to:

- In the area of knowledge, they learn what is environmental permitting and the relevant permitting procedures, which are the main terms, which are the categories of environmental impacts and the main environmental impacts per category of project, which are the main directions of the legislation, which are the available technologies, as well as their operation and investment cost.
- Regarding the skills, the students are trained into recording and understanding a complex environment (both legal and techno-economic) as regards the environmental impacts of a project, they become familiar with the available techniques for their prevention or mitigation, based on the international and domestic experience.
- In the level of capabilities, it is believed that the students' capabilities to identify, on a professional level, the main environmental impacts of projects, is strongly enhanced, as well as their ability to make decisions and suggest solutions as regards the required environmental terms and conditions for their construction and operation, to evaluate alternatives, to prepare EIAs, preliminary assessments, special ecological assessments, predetermined environmental terms, SEAs and the dossier with the required documents and certification

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?

<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>
<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>
<i>Decision-making</i>	<i>Respect for the natural environment</i>
<i>Working independently</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>
<i>Team work</i>	<i>Criticism and self-criticism</i>
<i>Working in an international environment</i>	<i>Production of free, creative and inductive thinking</i>
<i>Working in an interdisciplinary environment</i>	<i>.....</i>
<i>Production of new research ideas</i>	<i>Others...</i>

The capabilities and broader characteristics, that are expected to be obtained by the students, are:

- Respect for the natural environment
- Showing social and professional responsibility
- Adapting to new situations
- Decision-making
- Working independently
- Team work
- Project planning and management

- Working in an interdisciplinary environment
- Production of free, creative and inductive thinking

(3) COURSE CONTENT

The Syllabus of the course “Environmental Permitting” is as follows:

- National legal framework of environmental permitting (Law 4014/2011) with references to the respective EU acquis and brief analysis of its implementation in other EU Member States.
- Procedure of environmental permitting.
- Categorization of projects and activities.
- Dossier and content of Environmental Impact Assessment (EIA) A1 and A2 and preliminary environmental assessment.
- Main environmental impacts of construction and operation of the most common projects and activities – quantitative and qualitative methods for assessing environmental impacts – main methods and techniques for their prevention or mitigation.
- Model EIAs and preliminary environmental assessments.
- Special Ecological Assessment.
- Approval of Intervention (in forest land).
- Content of environmental permit – environmental terms and conditions.
- Predetermined Environmental Commitments.
- Environmental assessment of plans and programs – Strategic Environmental Assessment (SEA).
- Environmental inspections – Directive on environmental liability.

(4) TEACHING & LEARNING METHODS – EVALUATION

<p style="text-align: center;">DELIVERY <i>Face-to-face, Distance learning, etc.</i></p>	<p>Face-to-face, Distance Learning</p>
<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"> ▪ Access to database and specialized coding software related to environmental and spatial planning legislation. ▪ Communication and Electronic Submission. ▪ Support of teaching through the website. ▪ Presentation in PP, video and linking with specialized websites through the Internet.

TEACHING METHODS	Activity	Semester workload
<p>The manner and methods of teaching are described in detail. 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.</p> <p>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</p>	Lectures	39
	Study and analysis of bibliography	88
	Educational visits	3
	Writing of short essay (group)	20
	Course total	150
<p>STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure</p> <p>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</p> <p>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</p>	<p>Written exams with multiple choice system (70%)</p> <p>Short answer questions (10%)</p> <p>Short essay (20%)</p>	

(5) ATTACHED BIBLIOGRAPHY

1. Measurements and reductions of administrative burdens in 13 sectors in Greece, Final report, Environment, 28.2.2014.
2. Review of the implementation of Law 4014/2011 as regards the degree by which the licensing procedures have been simplified and shortened, Ministry of Environment, 1/2014.
3. Έκθεση για το νέο πλαίσιο αδειοδότησης έργων και δραστηριοτήτων που υλοποιήθηκε από το Παρατηρητήριο Επιχειρηματικού Περιβάλλοντος του ΣΕΒ
4. Ετήσια έκθεση για το επιχειρηματικό περιβάλλον 2014, ΣΕΒ
5. Εκπόνηση Μελέτης για την αναμόρφωση τροποποίηση της κατηγοριοποίησης των έργων και δραστηριοτήτων (ΚΥΑ 15393/2002) και των διαδικασιών περιβαλλοντικής αδειοδότησης Ν.3010/2002 και ΚΥΑ 11014/2003», ΥΠΕΚΑ, 2011.
6. [Interpretation of definitions of project categories of annex I and II of the EIA Directive](#), Eur. Commission, Brussels 5/2015.
7. Streamlining environmental assessment procedures for energy infrastructure Projects of Common Interest (PCIs), Eur. Commission, Brussels 24/7/2013.
8. [Guidance on the Application of the Environmental Impact Assessment Procedure for Large-scale Transboundary Projects](#), Eur. Commission, Brussels 16/5/2013.
9. Guidance on Integrating Climate Change and Biodiversity into Environmental Impact Assessment, Eur. Commission, Brussels 3/2013.
10. [Clarification of the application of Article 2\(3\) of the EIA Directive](#), Eur.

Commission, Brussels 2006.

11. [EIA - Guidance on Screening](#), Eur. Commission, Brussels 6/2001.
12. [EIA - Guidance on Scoping](#), Eur. Commission, Brussels 6/2001.
13. Guidelines on the Assessment of Indirect and Cumulative Impacts as well as Impact interactions, Eur. Commission, Brussels 5/1999.
14. Report of the Commission on the application and effectiveness of the EIA Directive, Eur. Commission, Brussels 23/7/2009.
15. [Implementation of the Environmental Impact Assessment on the basis of precise examples – IMPEL report](#), Eur. Commission, Brussels 12/2012.
16. [Study concerning the report on the application and effectiveness of the EIA Directive - Final report](#), Eur. Commission, Brussels 6/2009.
17. [Study Improving the Impact of Environmental Impact Assessment](#), Ευρ. Επιτροπή, Imperial College London Consultants, Vienna 2005.
18. Final report on "The Relationship between the EIA and SEA Directives project, Ευρ. Επιτροπή, Imperial College London Consultants, London 8/2005.
19. [Guidance on Integrating Climate Change and Biodiversity into Strategic Environmental Assessment](#), Eur. Commission, Brussels 3/2013.
20. [Report from the Commission on the application and effectiveness of the Directive on Strategic Environmental Assessment](#), Eur. Commission, Brussels 14/9/2009.
21. Commission's Guidance on the implementation of Directive 2001/42/EC on the assessment of the effects of certain plans and programs on the environment, Eur. Commission, Brussels 14/9/2009.