

COURSE MODULE OUTLINE

General Information

SCHOOL	Science and Technology		
PROGRAM COURSE	Engineering Project Management		
LEVEL OF STUDY	Postgraduate		
COURSE UNIT CODE	DXT 60	Year of Study	1 st
COURSE TITLE	Legislation and Safety of Technical Projects		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>		WEEKLY TEACHING HOURS	CREDITS
Weekly teaching hours * 30 weeks		18-19	20 ECTS
<i>Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4</i>			
COURSE TYPE Compulsory, Optional, Optional mandatory	Compulsory		
PREREQUISITE COURSES:	No prerequisites		
LANGUAGE OF INSTRUCTION AND EXAMS:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://www.eap.gr/education/postgraduate/annual/construction-management/topics/#d60		

(2) LEARNING OUTCOMES

Learning Outcomes

The course learning outcomes, specific knowledge, skills and competencies of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:

APPENDIX A

- 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

APPENDIX B

- Guidelines for Writing Learning Outcomes

Upon successful completion of DXT 60, students will be able to:

- ✓ know the basic legislation governing the award (pre-contractual stage) and execution (contractual stage) of the design of a public project.
- ✓ know the basic legislation governing the award (pre-contractual stage) and execution (construction) of a public project.
- ✓ be familiar with the basic legislation governing the safety and health of workers in general and of workers in technical works in particular.
- ✓ recognize the physical, chemical, biological hazards on a construction site and propose measures to prevent them.
- ✓ manage emergency situations on construction sites and technical works.
- ✓ know the methodological approach to the preparation of studies, analysis and management of environmental impacts of technical projects.
- ✓ assess and prioritize risks and manage environmental impacts.
- ✓ be aware of international, European and national legislation relevant to environmental protection.
- ✓ know the content of EIAs, public participation and the approval process.
- ✓ be informed about the administrative procedure for the authorization of different installations

General Competences

Taking into consideration the general competencies 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?

<i>Search for, analysis and synthesis of data and information by the use of appropriate technologies,</i>	<i>Project planning and management</i>
<i>Adapting to new situations</i>	<i>Respect for diversity and multiculturalism</i>
<i>Decision-making</i>	<i>Environmental awareness</i>
<i>Individual/Independent work</i>	<i>Social, professional and ethical responsibility and sensitivity to gender issues</i>
<i>Group/Team work</i>	<i>Critical thinking</i>
<i>Working in an international environment</i>	<i>Development of free, creative and inductive thinking</i>
<i>Working in an interdisciplinary environment (Other.....citizenship, spiritual freedom, social</i>	<i>.....</i>
<i>Introduction of innovative research</i>	<i>awareness, altruism etc.)</i>

Search for, analysis and synthesis of data and information by the use of appropriate technologies
 Individual/Independent work
 Project planning and management
 Critical thinking
 Development of free, creative and inductive thinking

(3) COURSE CONTENT

- ✓ Public works. Ways and procedures for assigning and drawing up studies of public projects. Public works construction. Construction contract. Management, and supervision in public projects implementation. Project time scheduling – Project calendar. Admeasures, activities authentication. Contract term amendment.
- ✓ The pre-contractual stage of public studies procurement and their related services. The after-contractual stage of public studies procurement and related services. Assignment of public construction projects. Implementation

of public construction projects. Statute N. 3389/2008 for public and private partnerships (P.P.P.).

- ✓ Key definitions in construction site and project safety. Dangers, measures of prevention, and firefighting. Dangers, measures of prevention, and explosives fighting. Accident management of dangerous substances. Dangers and protection measures from vibrations. Construction site dangers and control measures. Emergency management in construction sites and projects. Construction site accidents in Greece.
- ✓ Prediction and environmental impact assessment. Prediction, diagnosis, and risk assessment. Handling environmental impacts. Environmental impact monitoring. Environmental impact assessment. Legislation.

The key subjects of the course are:

- ✓ Legislation on the execution of technical works
- ✓ Safety in the execution of works
- ✓ Environmental impact of works and construction sites

(4) TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY <i>Face-to-face, in-class lecturing, distance teaching and distance learning etc.</i>	Distance education with five Group Counseling Meetings (OSS) during the academic year on weekends.	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in teaching, Laboratory Education, Communication with students</i>	For the OSS, use is made of: <ul style="list-style-type: none"> - remote meetings tools (Cisco WebEx), - presentation software (e.g. PowerPoint), - specialized software, free or student versions, relative to the subject of the course 	
COURSE DESIGN <i>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.</i> <i>The study hours for each learning activity as well as the hours of selfdirected study are given following the principles of the ECTS.</i>	Activity/Method	Annual workload
	5 OSS (* 4 hours)	20
	Tutorials	8
	Preparation of Assignments (5 assignments * 20 hours)	100
	Examination	3
	Individual study	420-440
	Total	551-571

<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS</p> <p><i>Detailed description of the evaluation procedures:</i></p> <p><i>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.</i></p> <p><i>Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.</i></p>	<p>Five (5) written assignments over the course of the academic term, the average grade of which makes up 30% of the final grade, on the condition that a passing grade is achieved in the final or repeat examinations. Final examinations, the grade of which makes up 70% of the final grade. Students must use specialized software for at least one of the aforementioned five written assignments. Certain software is accessible on the internet (student editions), while students may obtain other software through the 'Structural Technology and Applied Mechanics' Laboratory.</p>
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(5) SUGGESTED BIBLIOGRAPHY:

<p><i>- Suggested bibliography:</i></p> <ul style="list-style-type: none"> • Volume A: Legislation for the execution of technical works, EAP, Patras 2004 • Volume A/B Part': Legislation for Studies and Execution of Public Technical Works, EAP, Patras 2008. • Volume B': Safety of Project Execution, EAP, Patras 2004. • Volume C': Environmental Effects of Projects and Construction Sites, EAP, Patras • Holt, A. S. J. (2008). Principles of construction safety. John Wiley & Sons. • Griffith, A., & Howarth, T. (2014). Construction health and safety management. Routledge. <p><i>-Related scientific journals:</i></p> <ul style="list-style-type: none"> • Journal of Construction Engineering and Management • International journal of environmental research and public health • Safety and Health at Work
