

COURSE OUTLINE

(1) GENERAL

SCHOOL	SCHOOL OF ENGINEERING		
ACADEMIC UNIT	DEPARTMENT OF FINANCIAL AND MANAGEMENT ENGINEERING		
LEVEL OF STUDIES	POSTGRADUATE		
COURSE CODE	II.9	SEMESTER	2nd
COURSE TITLE	PROJECT AND RISK 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	
	3	8	
<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>	Stream Obligatory		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://odim.aegean.gr/?q=en/content/project-risk-management		

(2) LEARNING OUTCOMES

<p>Learning outcomes</p> <p><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"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i>
<p>This is one of the courses fully focused on the field of engineering economics and management, as graduates of the program will certainly be asked sooner or later to manage projects and apply the knowledge acquired during their training. The main objective of the course is to familiarize students with key project management methods/techniques, such as scheduling techniques (CPM, PERT), resource management and planning, and financial control. The course provides a comprehensive overview of project management activities, starting with the phases and ending with the specific knowledge and skills a project manager should possess, such as managing scope, human resources, quality and communication. Finally, the course includes a practical component in which students learn how to plan and manage projects using MS Project (commercial software available free of</p>

charge in the university's electronic services).

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>
	<i>.....</i>

Project planning & management

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Working in an interdisciplinary environment

Production of new research ideas

Criticism and self-criticism

Production of free, creative and inductive thinking

(3) SYLLABUS

1. The nature of project management, the relationship between projects and production systems, characteristics of projects. Elements, concepts, and terminology. Project life cycle, process-based approach, key sections for monitoring and optimizing results.
2. Definition of the project scope, task analysis and organization, administrative structure of implementation, defining the Project Charter and WBS.
3. Identification of the elements of the method used to design and optimize project scheduling, introduction to CPM method, setting up a project scheduling using MS PROJECT (the software is available through the e-services of the University), managing activity margins, modeling problems in the MS Project environment.
4. Modeling uncertainty in scheduling using the PERT method and simple simulation models.
5. Designing the project budget and methods for monitoring and optimizing project costs.
6. Concurrent problem management methods for achieving scheduling and cost improvement in a project, analysis based on the Earned Value Method.
7. Resource management, identification and modeling of resources in a project, resource leveling methods, and familiarity with resource management issues in the MS Project environment.

8. Risk and uncertainty management during project implementation, risks associated with scheduling and implementation costs, methods for calculating risk impacts.
9. Project closure and completion methods.
10. Review of project management methods through the presentation of two comprehensive problems: a small factory construction project and a project for developing a new information system in the MS Project environment.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Distance Learning	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of Moodle Platform	
TEACHING METHODS <i>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. 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>	Activity	Semester workload
	Lectures	30 hrs
	Project, essay writing, bonus in the final mark	87 hrs
	Preparation for the final exam	80 hrs
	Exams	3hrs
	Course total	200
STUDENT PERFORMANCE EVALUATION <i>Description of the evaluation procedure 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 Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	Final exam on course notes for 90% of the final mark of the student. Project, essay writing offer up to 10% bonus in the final mark.	

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- (1) H. Maylor *Project Management, Klidarithmos Editions (Translated into Greek)*
- (2) Shtub Avraham, *Project Management, Epicentro Editions (Translated into Greek)*
- (3) Jack R. Meredith, Samuel J. Mantel Jr., (2008) *Project Management: A Managerial Approach, Wiley*
- (4) Harold Kerzner (2009) *Project Management Case Studies, Wiley*
- (5) *Project Management Body of Knowledge, PMI, 2008, Project Management Institute, USA. Project Management: Processes, Methodologies, and Economics (2nd Edition),*
- (6) Shtub, A., Bard, J. and Globerson, S. 2004, Prentice Hall, USA.

- Related academic journals:
None