

COURSE OUTLINE

1. GENERAL

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|---|---|----------------------------|--------|
| SCHOOL | AGRICULTURAL SCIENCES | | |
| DEPARTMENT | FOOD SCIENCE AND TECHNOLOGY | | |
| LEVEL OF COURSE | UNDERGRADUATE | | |
| COURSE CODE | FST_X03 | SEMESTER OF STUDIES | Winter |
| COURSE TITLE | PROJECT 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 | ECTS CREDITS | |
| Lectures, seminars | 4 | 5 | |
| <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> | Elective Specialized general knowledge, skills development | | |
| PREREQUISITE COURSES: | There are no prerequisite courses | | |
| LANGUAGE OF INSTRUCTION and EXAMINATIONS: | Greek | | |
| IS THE COURSE OFFERED TO ERASMUS STUDENTS | No | | |
| COURSE WEBPAGE (URL) | https://eclass.upatras.gr/ | | |

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 purpose of this course is initially to present and explain the principles of project management design and control techniques. With the help of concrete examples and exercises students can understand in depth how to apply the basic principles of project management, as well as its tools, techniques and methods. So, this course enables students to gain specialized knowledge required to be able to use all project management planning and control tools and techniques.

By the end of this course the student will be able to:

- explain and use the project management planning and control principles and techniques
- apply project management principles, tool, techniques and methods to real problems from the field of economic and agronomic sciences, but also in their daily lives
- use knowledge and understanding acquired in a manner that indicates a professional approach to their work or profession
- have competences typically demonstrated by developing and supporting arguments and solving problems within their field of knowledge
- communicate information, ideas, problems and solutions to both specialist and non-specialist public
- develop knowledge acquisition skills needed to continue to post graduate studies with a high degree of autonomy
- gather and interpret relevant data (in their knowledge field) to form judgments that include

- reflection on relevant scientific issues
- be able to use their knowledge, understanding and ability to solve problems in new or unfamiliar environment within broader (or multidisciplinary) context, related to their field
- be able to communicate with clarity their conclusions, knowledge and reasoning in both specialized and non-specialized audience

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| General Competences | |
| <i>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> | |
| <i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i> | <i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i> |
| <i>Adapting to new situations</i> | <i>Adapting to new situations</i> |
| <i>Decision-making</i> | <i>Decision-making</i> |
| <i>Working independently</i> | <i>Working independently</i> |
| <i>Team work</i> | <i>Team work</i> |
| <i>Working in an international environment</i> | <i>Working in an international environment</i> |
| <i>Working in an interdisciplinary environment</i> | <i>Working in an interdisciplinary environment</i> |
| <i>Production of new research ideas</i> | <i>Production of new research ideas</i> |

- By the end of this course the student will, furthermore, have developed the following skills (general abilities):
- Project management and design
 - Searching, analysis and synthesis of facts and information, as well as using the necessary technologies
 - Adaptation to new situations
 - Decision making
 - Autonomous (Independent) work
 - Group work
 - Promotion of free, creative and inductive thinking

3. SYLLABUS

1. Introduction to project management
2. The history of project management
3. Project management standards
4. Project integration management
5. Process management
6. Project management plan
7. Project life cycle
8. Feasibility study
9. Project management scope
10. Work breakdown structure (WBS)
11. Time management (time estimation)
12. Critical path method (CPM)
13. Gantt chart
14. Procurement management
15. Resource and cost management (cost estimate)
16. Cash flow
17. Project execution, monitoring and control
18. Earned value
19. Quality Management
20. Risk management
21. Communication management
22. Organization structure

4. TEACHING AND LEARNING METHODS - EVALUATION

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|---|---|
| DELIVERY <i>Face-to-face, Distance learning, etc.</i> | Face-to-face |
| USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i> | Use of Information and Communication Technologies (ICTs) (e.g. powerpoint) in teaching. Communication with students: through e-mail, department's website and platform e-class. The lectures content of the course for each chapter are uploaded on the |

| | internet, in the form of a series of .pdf files, where students can freely download them from the platform e-class.upatras.gr Software that supports project management | | | | | | | | | | | | |
|--|---|-------------------------------|-------------------------------|--|----|---------------------------------------|----|-----------------------------|---|------------------|----|---|------------|
| <p>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"> <thead> <tr> <th>Activities</th> <th>Work Load per semester</th> </tr> </thead> <tbody> <tr> <td>Lectures (3 hours per week x 13 weeks)</td> <td>39</td> </tr> <tr> <td>Seminars (1 hour per week x 13 weeks)</td> <td>13</td> </tr> <tr> <td>Final examination (3 hours)</td> <td>3</td> </tr> <tr> <td>Non-guided study</td> <td>70</td> </tr> <tr> <td>Total number of hours for the Course (25 hours of work-load per ECTS credit)</td> <td>125</td> </tr> </tbody> </table> | Activities | Work Load per semester | Lectures (3 hours per week x 13 weeks) | 39 | Seminars (1 hour per week x 13 weeks) | 13 | Final examination (3 hours) | 3 | Non-guided study | 70 | Total number of hours for the Course (25 hours of work-load per ECTS credit) | 125 |
| | Activities | Work Load per semester | | | | | | | | | | | |
| | Lectures (3 hours per week x 13 weeks) | 39 | | | | | | | | | | | |
| | Seminars (1 hour per week x 13 weeks) | 13 | | | | | | | | | | | |
| | Final examination (3 hours) | 3 | | | | | | | | | | | |
| | Non-guided study | 70 | | | | | | | | | | | |
| Total number of hours for the Course (25 hours of work-load per ECTS credit) | 125 | | | | | | | | | | | | |
| <p>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> | <p>Written examination after the end of the semester (100%) including:</p> <ul style="list-style-type: none"> • Multiple-choice questions • Solving problems of project management (processes, scheduling, resources, supplies, costs, cash flow) • Benchmarking theory elements <p>Grading scale: 1 to 10. Minimum passing grade: 5. Examination time: 3 hours.</p> | | | | | | | | | | | | |

5. ATTACHED BIBLIOGRAPHY

1. Project Management: Planning and Control Techniques, Roy Burke, 5th Edition, Publisher: Wiley; 5 edition (November 25, 2013), Language: English, ISBN-10: 1118561252.
2. Fundamentals of Project Management: Tools and Techniques (PROJECT MANAGEMENT SERIES), Roy Burke, Publisher: Burke Publishing; 2nd edition (January 15, 2010), Language: English, ISBN-10: 0958273367.
3. Project Management: Processes, Methodologies, and Economics, Avraham Shtub, Jonathan F. Bard, Shlomo Globerson, Publisher: Pearson; 2 edition (October 30, 2004), Language: English, ISBN-10: 0130413313.