

COURSE OUTLINE

1. GENERAL INFORMATION

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|--|---|-----------------|-----|
| SCHOOL | APPLIED ECONOMIC AND SOCIAL SCIENCES | | |
| ACADEMIC UNIT | AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT | | |
| LEVEL OF STUDY | <i>Undergraduate</i> | | |
| COURSE UNIT CODE | 5406 | SEMESTER | 4th |
| COURSE TITLE | POMOLOGY | | |
| INDEPENDENT TEACHING ACTIVITIES | WEEKLY TEACHING HOURS | CREDITS | |
| Lectures | 5 | 5 | |
| COURSE TYPE | Special Background | | |
| PREREQUISITE COURSES: | NO | | |
| LANGUAGE OF INSTRUCTION and EXAMINATIONS: | Greek | | |
| THE COURSE IS OFFERED TO ERASMUS STUDENTS | YES (in English) | | |
| COURSE WEBSITE (URL) | https://oeclass.aua.gr/eclass/ | | |

2. LEARNING OUTCOMES

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| Learning Outcomes |
| <p>The course aims to:</p> <p>(a) familiarizing students with: (i) tree requirements for vegetation and fruit setting; (ii) the interactions of endogenous with exogenous factors in fruit tree cultivation, (iii) the main cultural practices applied in orchards</p> <p>b) give emphasis on the climatic and soil requirements, cultivation techniques, as well as on the special needs of each species regarding the main fruit trees of Greece</p> <p>Upon successful completion of the course the student will be able to:</p> <ul style="list-style-type: none"> • recognize the main fruit tree species of Greece • understand and evaluate the effect of biotic and abiotic factors on fruit tree productivity • become familiar with farming practices that can be applied to orchards • become familiar with the particular cultivation requirements of the main fruit tree species • gain deep knowledge on postharvest handling of fruits |
| General Competences |
| <ul style="list-style-type: none"> • Adapting to new situations • Decision-making • Individual/Independent work • Group/Team work • Working in an international environment • Project planning and management • Development of free, creative and inductive thinking |

3. SYLLABUS

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| <ol style="list-style-type: none"> 1. The morphology of fruit trees (roots, shoots, buds, leaves, flowers) 2. Rootstocks and propagation of fruit trees 3. Fruit bearing 4. Flowering, pollination, fruit set and fruit growth 5. Orchard management (soil and soil fertility, nutrition, irrigation, pruning and training of |
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fruit trees, fruit thinning)

6. Fruit ripening, harvesting and storage
7. Orchard design and establishment
8. Olive tree
9. Citrus fruits (orange, lemon, tangerine)
10. Stone fruits (almond, apricot, crimson, plum, cherry and peach)
11. Pome fruits (apple, pear, quince)
12. Nut crops (peanut, chestnut, walnut, hazelnut)
13. Kiwi

A combination of teaching and learning methods will be used, aiming at the active participation of the students; there will be lectures using audiovisual media, discussions, group activities, as well as projections of relevant videos. The students will also undertake an individual or group project. Furthermore, articles, audiovisual lecture materials, web links/addresses, useful information, are posted in digital form on the AUA Open e-Class platform.

4. TEACHING METHODS--ASSESSMENT

| DELIVERY | Face to face, Distance Learning | | | | | | | | | | | | | | | |
|--|---|-----------------|-----------------|-------------------|----|------------------------------|----|--------------------------|----|-------------------------|-----|--------------|---|--|---------|--|
| USE OF INFORMATION AND COMMUNICATION TECHNOLOGY | <ul style="list-style-type: none"> • Support of the learning process through the AUA Open eClass platform of the University (Integrated Electronic Course Management System) • Support of the lectures using presentation software • Use of audiovisual material • Use of Internet applications <p>Communication with students: face to face at office hours, email, eclass platform</p> | | | | | | | | | | | | | | | |
| TEACHING METHODS | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures (direct)</td> <td style="text-align: center;">65</td> </tr> <tr> <td><i>Writing paper/ papers</i></td> <td style="text-align: center;">28</td> </tr> <tr> <td><i>Independent Study</i></td> <td style="text-align: center;">30</td> </tr> <tr> <td><i>Advisory support</i></td> <td style="text-align: center;">0.5</td> </tr> <tr> <td><i>Exams</i></td> <td style="text-align: center;">2</td> </tr> <tr> <td><i>Course Total (Approximately 25 hours of workload per credit unit 125.5)</i></td> <td style="text-align: center;">125.5 h</td> </tr> </tbody> </table> | <i>Activity</i> | <i>Workload</i> | Lectures (direct) | 65 | <i>Writing paper/ papers</i> | 28 | <i>Independent Study</i> | 30 | <i>Advisory support</i> | 0.5 | <i>Exams</i> | 2 | <i>Course Total (Approximately 25 hours of workload per credit unit 125.5)</i> | 125.5 h | |
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| Lectures (direct) | 65 | | | | | | | | | | | | | | | |
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| <i>Course Total (Approximately 25 hours of workload per credit unit 125.5)</i> | 125.5 h | | | | | | | | | | | | | | | |
| STUDENT PERFORMANCE EVALUATION | <p>The evaluation process is in the language that the course is taught (Greek or English) and consists of:</p> <ol style="list-style-type: none"> i. Compulsory written final examination at the end of the semester (weighting factor 70% at least) which may includes: <ul style="list-style-type: none"> • Multiple choice questionnaires • Open-ended questions • Problem solving • Oral examination <p>Evaluation criteria: correctness, completeness, clarity</p> ii. Optional written exam or essay during the semester (weighting factor 30%) which may includes: <ul style="list-style-type: none"> • Multiple choice questionnaires | | | | | | | | | | | | | | | |

- Open-ended questions
- Problem solving
- Essay/report
- Oral examination

Evaluation criteria: correctness, completeness, clarity

Special learning difficulties:

Students with **special learning difficulties** in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department.

Specifically-Defined Criteria:

The evaluation criteria are made known during the first lesson and are clearly stated on the course website and the AUA Open e-class platform. The answers to the exam questions are posted on the AUA Open e-Class platform after the exam. The students are allowed to see their exam paper after its grading (during the announced office hours) and receive explanations about the grade they received.

5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Βασιλακάκης, Μ.Δ. (2015). *Γενική και Ειδική Δενδροκομία*. Εκδόσεις ΑΓΙΣ-ΣΑΒΒΑΣ ΓΑΡΤΑΓΑΝΗΣ
- Ποντίκης, Κ (1997). *Γενική Δενδροκομία*. Εκδόσεις Α. Σταμούλης

Suggested Bibliography in English Language:

- Salunkhe, D. K., Kadam, S. S. (1995). *Handbook of fruit science and technology. Production, Composition, storage, and processing*. Marcel Dekker inc. New York
- Lamb, K., Kelly, J.; Bowbrick, P. (1995). *Nursery stock manual*. Swanley, U.K
- Garner, R.J. (1988). *"The Grafter's Handbook" fifth edition*. Cassell PLC, London, U.K.
- Childers, N., Moris J., Sibbett, G. S. (1995). *"Modern Fruit Science" tenth edition*. Horticultural Publications, Gainesville, Florida, U.S.A.

Related academic Journals:

- *Folia Horticulturae*
- *Horticulturae*
- *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*
- *Scientia Horticulturae*
- *Acta Horticulturae*
- *HortScience*
- *Fruits*
- *Experimental Agriculture*
- *Agriculture*
- *Plants*
- *HortTechnology*
- *European Journal of Horticultural Science*

