

COURSE OUTLINE

1. GENERAL

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| SCHOOL | APPLIED ECONOMIC AND SOCIAL SCIENCES | | |
| ACADEMIC UNIT | AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT | | |
| LEVEL OF STUDIES | <i>Undergraduate</i> | | |
| COURSE CODE | 5807 | SEMESTER | 8th |
| COURSE TITLE | FLORICULTURE (PRINCIPLES AND MAIN CULTIVATIONS) | | |
| INDEPENDENT TEACHING ACTIVITIES | | WEEKLY TEACHING HOURS | CREDITS |
| Lectures | | 3 | 5 |
| Laboratory Exercises | | 2 | |
| COURSE TYPE | Special Background | | |
| PREREQUISITE COURSES | NO | | |
| LANGUAGE OF INSTRUCTION and EXAMINATIONS | Greek | | |
| IS THE COURSE OFFERED for ERASMUS STUDENTS? | YES (in English) | | |
| COURSE WEBSITE (URL) | https://oeclass.aua.gr/eclass/ | | |

2. LEARNING OUTCOMES

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| <p>Learning Outcomes</p> |
| <p>The aim of the course is:</p> <p>to acquire knowledge about the theoretical and applied knowledge of business floriculture. General principles are given regarding the effect of environmental conditions, with emphasis on photoperiodization and temperature, the physiology of growth and development (flowering, fruiting, formation of underground storage organs) of floricultural species. An analysis of basic elements of construction and management of greenhouses is made. Methods of cultivation of the main floricultural species are developed, with the aim of producing propagating material, cut flowers and foliage, as well as container plants. The required environmental conditions, cultivation techniques, phytochemical substances, methods of harvesting, sorting, preservation, storage, standardization, processing (drying),</p> |

handling and marketing of Rose, Chrysanthemum, Carnation, Gerbera, Lilium, Azalea, Cyclamen and Gardenia plants are analyzed. These crops have been selected based on their economic importance in the international and Greek market, but also as standard crops for other floricultural species with similar characteristics and related cultivation requirements.

Upon successful completion of the course, the student will be able to:

- acquire general knowledge of applied physiology and cultivation techniques that mainly concern the cultivation of under cover floricultural species
- acquire special knowledge related to the cultivation on a business scale of the most economically important for the country, crops, floricultural items, with the aim of producing propagating material, cut flowers and container plants.

General Competences

Adapting to new situations

Decision-making

Working independently

Teamwork

Respect for the natural environment

Showing social, professional, and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

3. SYLLABUS

1. Environmental conditions in the business of Floriculture
2. Outdoors and greenhouse cultivation of Rose
3. Outdoors and greenhouse cultivation of Carnation
4. Outdoors and greenhouse cultivation of Chrysanthemum
5. Outdoors and greenhouse cultivation of Gerbera
6. Outdoors and greenhouse cultivation of Gladiolus
7. Greenhouse cultivation of Lilium
8. Outdoors and greenhouse cultivation of Gypsophila
9. Greenhouse cultivation of Poinsettia
10. Greenhouse cultivation of Gardenia
11. Greenhouse cultivation of Azalea
12. Greenhouse cultivation of Cyclamen
13. Handling of cut flowers and foliages (drying, stabilization)

A combination of teaching and learning methods will be used, aiming at the active participation of the students and the practical application of the thematic units under examination; there will also be lectures using audiovisual media, discussions, and analyses of case studies on real business issues, experiential (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, case studies and exercises for further practice are posted in digital form on the AUA Open e-Class platform.

4. TEACHING and LEARNING METHODS - EVALUATION

| DELIVERY | Face -to-face, Distance learning | | | | | | | | | | | | | | | | | | |
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| USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY | <ul style="list-style-type: none"> • Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System) • Support of lectures using presentation software • Use of audiovisual material • Use of web 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;">39</td> </tr> <tr> <td>Laboratory Practice</td> <td style="text-align: center;">26</td> </tr> <tr> <td>Essay Writing</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Autonomous study</td> <td style="text-align: center;">36</td> </tr> <tr> <td>Advisory Support</td> <td style="text-align: center;">0,5</td> </tr> <tr> <td>Examination</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Laboratory Examination</td> <td style="text-align: center;">2</td> </tr> <tr> <td><i>Total (About 25 hours of study per ECTS)</i></td> <td style="text-align: center;">125,5</td> </tr> </tbody> </table> | <i>Activity</i> | <i>Workload</i> | Lectures (direct) | 39 | Laboratory Practice | 26 | Essay Writing | 20 | Autonomous study | 36 | Advisory Support | 0,5 | Examination | 2 | Laboratory Examination | 2 | <i>Total (About 25 hours of study per ECTS)</i> | 125,5 |
| <i>Activity</i> | <i>Workload</i> | | | | | | | | | | | | | | | | | | |
| Lectures (direct) | 39 | | | | | | | | | | | | | | | | | | |
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| Examination | 2 | | | | | | | | | | | | | | | | | | |
| Laboratory Examination | 2 | | | | | | | | | | | | | | | | | | |
| <i>Total (About 25 hours of study per ECTS)</i> | 125,5 | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | |

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| | <p>Evaluation criteria: correctness, completeness, clarity</p> <p>ii. Optional written exam or essay during the semester (weighting factor 30%) which may include:</p> <ul style="list-style-type: none"> ● Multiple choice questionnaires ● Open-ended questions ● Problem solving ● Essay/report ● Oral examination <p>Evaluation criteria: correctness, completeness, clarity</p> <p>Special learning difficulties:</p> <p>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.</p> <p>Specifically-Defined Criteria:</p> <p>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.</p> |
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5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography in Greek Language:

- Βιβλίο [94692454]: Γενική Ανθοκομία, Δημήτριος Σάββας
- Βιβλίο [77120344]: Ανθοκομία – Καλλιέργεια και Μετασυλλεκτική Διαχείριση Ανθέων και Φυλλωμάτων, Αναστάσιος Δάρρας
- Βιβλίο [1947]: Φυτά Εσωτερικών Χώρων, Γεωργακοπούλου-Βογιατζή Χρ.

Suggested Bibliography in English Language:

- Boodley James, Θερμοκηπιακές Εγκαταστάσεις -Επιχειρηματική Ανθοκομία Ι, Εκδόσεις Στέλλα Παρικού & ΣΙΑ Ο.Ε., Αθήνα, 1999
- Roy A. Larson, Introduction to Floriculture, second edition, Academic press Inc., San Diego, 1992

Related academic Journals:

- *European Journal of Horticultural Science*
- *Scientia Horticulturae*
- *Journal of Horticultural Science and Biotechnology*
- *Journal of the American Society for Horticultural Science*
- *HortScience*
- *Folia Horticulturae*
- *Horticulturae*
- *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*
- *Acta Horticulturae*

Instructor's Notes