

COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES		
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT		
LEVEL OF STUDIES	<i>Undergraduate</i>		
COURSE CODE	AGR807	SEMESTER	8th
COURSE TITLE	FLORICULTURE		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Lectures		5	5
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

Learning Outcomes
<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), handling and marketing of Rose, Chrysanthemum, Carnation, Gerbera, Liliun, 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.</p> <p>Upon successful completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> • 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 foliage (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
USE OF INFORMATION and	• Support of the learning process through the

<p>COMMUNICATIONS TECHNOLOGY</p>	<p>University's AUA Open eClass platform (integrated e-Course Management System)</p> <ul style="list-style-type: none"> • 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>																			
<p>TEACHING METHODS</p>	<table border="1"> <thead> <tr> <th data-bbox="699 479 1051 517"><i>Activity</i></th> <th data-bbox="1059 479 1361 517"><i>Workload</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="699 517 1051 555">Lectures (direct)</td> <td data-bbox="1059 517 1361 555">39</td> </tr> <tr> <td data-bbox="699 555 1051 593">Laboratory Practice</td> <td data-bbox="1059 555 1361 593">26</td> </tr> <tr> <td data-bbox="699 593 1051 631">Essay Writing</td> <td data-bbox="1059 593 1361 631">20</td> </tr> <tr> <td data-bbox="699 631 1051 669">Autonomous study</td> <td data-bbox="1059 631 1361 669">36</td> </tr> <tr> <td data-bbox="699 669 1051 707">Advisory Support</td> <td data-bbox="1059 669 1361 707">0,5</td> </tr> <tr> <td data-bbox="699 707 1051 745">Examination</td> <td data-bbox="1059 707 1361 745">2</td> </tr> <tr> <td data-bbox="699 745 1051 784">Laboratory Examination</td> <td data-bbox="1059 745 1361 784">2</td> </tr> <tr> <td data-bbox="699 784 1051 887"><i>Total</i> <i>(About 25 hours of study per ECTS)</i></td> <td data-bbox="1059 784 1361 887">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</i> <i>(About 25 hours of study per ECTS)</i>	125,5
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<p>STUDENT PERFORMANCE EVALUATION</p>	<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 <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>																			

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:***

- 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