

GENERAL HORTICULTURE

GENERALFLORCULTURE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	AGRICULTURE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AGRI 403	SEMESTER OF STUDIES	4 rd
COURSE TITLE	General Floriculture		
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
	Lectures	3	
	Laboratory Exercises	2	
	Total	5	5
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (4).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	<i>specialised general knowledge</i>		
PREREQUISITE COURSES:	Typically, there are no prerequisite courses.		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek. Teaching may be performed in English in case foreign students attend the course.		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (English)		
COURSE WEBPAGE (URL)			

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 aim of the course is to give the student the basic knowledge about:

- the botanical classification of ornamental plants.
- The genetic basis of diversity in ornamental plants.
- morphology and physiology of ornamental plants.
- Annual herbs, perennial herbs, geophytes, shrubs, trees, etc.
- the effect of environmental factors on their development, the substrate materials, the cultivation systems, sexual and asexual propagation, grafting and the use of phytohormones in their cultivation.

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?

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Adapting to new situations
Decision-making
Working independently
Teamwork
Working in an international environment
Working in an interdisciplinary environment
Production of new research ideas

Project planning and management
Respect for difference and multiculturalism
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
.....
Others...
.....

Generally, by the end of this course the student will, furthermore, have developed the following general abilities (from the list above):

Searching, analysis and synthesis of facts and information, as well as using the necessary technologies
Decision making
Independent work
Teamwork
Production of new research ideas
Promotion of free, creative and inductive thinking

3. SYLLABUS

- Botanical classification of ornamental plants.
- The genetic basis of diversity in ornamental plants. Natural selection. Human-driven selection.
- Categorization of flowering plants into annual herbs, perennial herbs, geophytes, shrubs, trees, etc.
- Morphology and development of ornamental plants. Flowering control
- Effect of environmental factors on their development and physiology.
- Organic and inorganic substrates
- Cropping systems for ornamental plants.
- Plant propagation and grafting.
- Use of phytohormones – phytohormones.

Laboratory Practicals

- Greenhouse cultivation,
- substrates, preparation of mixtures
- planting and seed development in crates and pots, planting bulbs.
- Seedling development and cultivation
- Seedling transplants
- grafting and asexual propagation of plants.

4. TEACHING AND LEARNING METHODS - EVALUATION

<p style="text-align: center;">DELIVERY <i>Face-to-face, Distance learning, etc.</i></p>	Face to face lectures.	
<p style="text-align: center;">USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i></p>	Use of Information and Communication Technologies (ICTs) (e.g. Microsoft PowerPoint) in teaching. The contents of the course of each chapter are uploaded on the internet, that the students can freely download using a password which is provided to them at the beginning of the course.	
<p style="text-align: center;">TEACHING METHODS <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>	Activity	Semester workload
	Lectures (3 contact hours per week x 13 weeks)	39
	Laboratory Exercises (2 contact hours per week x 6 weeks)	12
	Writing short reports on laboratory exercises	12
	Total examinations	2
	Hours for private study of the student, preparation and attendance mid-term or/and final examinations.	60
	Total number of hours for the Course (25 hours of workload per ECTS credit)	125 hours (total student workload)
<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION <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>Final mandatory written examination, full length questions and / or multiple-choice questions, as well as questions based on the laboratory work. Minimum pass grade= 5, scale 0-10.</p> <p>All the above are taking place in Greek as well as in English for foreign students (e.g. ERASMUS students) if any.</p>	

5. ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

Floriculture: Principles and Species. John M. Dole, Harold F. Wilkins. Pearson/Prentice Hall, 2005

Introduction to Floriculture. Caroline Harrington. Larsen and Keller Education 2019.#

- Related academic journals:

Floriculture International magazine, Journal of Floriculture and Landscaping