

COURSE: **Floriculture and non food herbaceous crops (modular course): modulus of floriculture**

ACADEMIC YEAR: **2019-2020**

TYPE OF EDUCATIONAL ACTIVITY: Basic

TEACHER: Donato Castronuovo

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Language: Italian

ECTS: 6 (5 lectures + 1 practicals)	no. of hours: (40 h lectures + 16 h practicals)	Campus: Potenza School of Agriculture, Forest, Food and Environmental Sciences (SAFE) Program: MSc Agriculture Science and Technology	Semester: II
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EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The objective of course is to provide agronomist the knowledge on the classification, biology, propagation and cultivation of cut flowers, potted flowering plants, cut foliage and indoor plants.

- **Knowledge and understanding:** Botanical and agronomic knowledges on the main floricultural and ornamental productions in relation to the most representative crops; understanding the variation of the main qualitative characteristics in relation to the cropping systems and cultivation techniques; knowledges on grown methods and techniques able to increase quality traits in pre- and post-harvest periods; marketing standards of floriculture products.
- **Applying knowledge and understanding:** Ability to identify the forcing techniques able to planning flowering time of the main floricultural crops.
- **Making judgements:** Ability to propose solutions suitable to optimize both the productions and the quality in floriculture.
- **Communications skills:** Ability to communicate the impact of environmental conditions and agronomic practices on ornamental and floricultural productions.
- **Learning skills:** Ability to access the statistical data sources (surfaces, productions and trade of the main ornamental and floricultural crops) and to understand and summarize the data. Ability to document the factors influencing the quality traits of ornamentals and floricultural species.

PRE-REQUIREMENTS

Basic knowledges concerning botany, agronomy and plant production science are required.

SYLLABUS

Lessons

The activities are divided in 6 blocks.

Block 1 (8h, lectures):

The students will acquire theoretical and practical knowledges on Floriculture through active participation in lectures and through the consultation of specialized books and references provided by the teacher. The topics to be developed are the following: origins, diffusion of Floriculture and its commercial sectors; notions of climatology, protection techniques of ornamental crops, greenhouses for forcing the flower and ornamental crops.

Block 2 (8h, lectures):

The topics to be developed are the following: forcing and pre-forcing techniques of flower crops and ornamentals, growing media and main cultivation systems in Floriculture; pot cultivation systems; general information on soilless cultivations; propagation and planting methods in Floriculture; quality, storage and post-harvest physiology of cut flowers and foliage crops.

Block 3 (8h, lectures):

The following technical and scientific informations will be given: biology, physiology, cultivation techniques, flower scheduling, harvest and quality traits of some cut flower species (bulbous species, rose, carnation, chrysanthemum and

gerbera).

Block 4 (8h, lectures):

In continuation of the previous block, the following subjects will be addressed: biology, physiology, cultivation techniques, flower scheduling and quality traits of some flowering potted plants: Poinsettia, Azalea etc..

Block 5 (8h, lectures):

Classification and cultivation of cut foliage plants used as ornamentals; general information on indoor ornamental plants.

Block 6 (16h, Practices):

Laboratory and farm practices will be conducted in order to give to the students knowledges on identification and classification of the main flower and ornamental plants and the related cultivation techniques.

TEACHING METHODS

Theoretical lessons (40 hours), laboratory and farm practices (16 hours).

EVALUATION METHODS

Oral exam, consisting of questions based on theoretical knowledges and laboratory practices. To pass the exam the students have to achieve at least 18 points on 30.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

ACCATI GARIBALDI E., 1993. Trattato di Floricoltura. Edagricole, Bologna.

BENSA S., 1986. Floricoltura Industriale. Edagricole, Bologna.

GHISLENI P.L., QUAGLIOTTI L., 1983. Floricoltura. Edizioni. UTET, Torino.

TESI R., 2008. Colture protette. Ortoflorovivaismo in ambiente mediterraneo. Edizioni Agricole de Il Sole 24 ORE Business Media s.r.l., Milano. 349 pp.

Notes from lessons.

INTERACTION WITH STUDENTS

In the first lesson, after describing the aims, contents and exam procedures, it will be collected the list of students attending the course enclosed their registration number and e-mail. During the lessons, teaching materials will be provided. Students may contact the teacher anytime by mobile phone or e-mail for any clarifications or to set an appointment in his office at SAFE, I floor. The teacher will meet the students on Tuesday, Wednesday and Thursday, from 10.00 to 13.30.

EXAMINATION SESSIONS

05/02/2020; 10/03/2020; 07/04/2020; 05/05/2020; 03/06/2020; 07/07/2020; 08/09/2020; 06/10/2020; 03/11/2020; 09/12/2020;12/01/2021; 02/02/2021; 02/03/2021.

Other dates could be agreed monthly with the students.

EVALUATION COMMITTEE

President: Prof. Piergiorgio Gherbin. Members: dott. D. Castronuovo; prof. V. Candido; prof. M. Amato; prof. S Lovelli.

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION
