

## 28934 - Ornamental crops

### Syllabus Information

**Academic year:** 2024/25

**Subject:** 28934 - Ornamental crops

**Faculty / School:** 201 - Escuela Politécnica Superior

**Degree:** 583 - Degree in Rural and Agri-Food Engineering

**ECTS:** 6.0

**Year:**

**Semester:** Second semester

**Subject type:** Optional

**Module:**

### 1. General information

The overall objective of the subject is to understand the relationship between the physiology of the main genera used in the production of cut flowers and ornamental plants with the different production systems. The student should be able to apply the basic scientific principles to the design of the ideal production system for each type of species in order to obtain the maximum benefit by applying the most appropriate technologies to the environment, in addition to handling post-production techniques.

These goals are aligned with some of the Sustainable Development Goals (SDGs) of the 2030 Agenda and certain targets, specifically Goal 15: Life of terrestrial ecosystems; target 15.8. With goal 12: Production and responsible consumption, target 12.

### 2. Learning results

Once students have passed the subject, they should know the economic bases and the market situation in the ornamental sector, the regulations of nursery production and its scope of application, the main species of ornamental interest and the techniques of production, multiplication and post-production of the main ornamental crops. They must also be able to select the necessary facilities for the production of the required species, solve crop management, irrigation and fertilization problems, analyze concrete situations and make decisions, demonstrating their ability to apply their knowledge in practice.

### 3. Syllabus

#### Theory:

Block I. Economic importance of ornamental species.

Block II. Materials and facilities.

Block III. Cultural practices: propagation and cultivation methods.

Block IV- Cultivation of herbaceous, arboreal and shrub ornamental species.

Block V- Cultivation of ornamental species for cut flowers.

#### Practices

- Laboratory/cabinet practices.

Laboratory/greenhouse experiments: Propagation; Recognition of substrates, containers and materials; Recognition of ornamental species.

- Visits to commercial ornamental plant nurseries.

### 4. Academic activities

- Participative lectures 30 classroom hours.
- Laboratory/cabinet practices. 10 classroom hours.
- Visits to commercial ornamental plant nurseries: 16 classroom hours.
- Supervised work and oral presentation. 4 classroom hours.
- Study for the written test, completion of the written test and writing of the tutored paper, a total of 90 hours of autonomous work of the student. In the Moodle platform the students will be able to find all the materials provided by the teachers as well as to deposit in time and form the work required for the correct monitoring of the subject.

Outings to nurseries and/or specialized centers will be subject to the budget available for their realization.

## 5. Assessment system

The subject will be evaluated by the global test procedure with the following sections:

1. Written test at the end of the term (20 %). It will be divided into the following sections:
  - a. Multiple-choice multiple-choice questions. Correct answers will be scored 1 point, wrong answers will be scored - 0.2 points. Unanswered questions are scored with 0 points. The maximum score in this section will be 4.0 points out of 10.
  - b. Short questions to be developed in which the accuracy of the answer and the order in the writing will be valued.

The maximum score in this section shall be 6.0 points out of 10.

2. Assessment of the sequential activities proposed in the moodle platform 2. (30%).
3. Written presentation of the laboratory practice notebook (10%).
4. Presentation of the reports of the technical visits carried out (10%).
5. Presentation of a conceptual diagram of the subject (30%).

It will be necessary to achieve a minimum score of 4 out of 10 points in each section.

If in the first call of the same academic year a part of the subject has been passed and another part has been failed , in the second call the grades of the parts passed will be maintained. However, these grades will not be maintained in the following academic years.

The detailed assessment system will be explained in the presentation of the subject.

The success rates for the subject in the last three years are: 2019/20: 100%; 2020/21: 100%; 2021/22: 100%; 2022/23: 100%

## 6. Sustainable Development Goals

12 - Responsible Production and Consumption

15 - Life on Land