

## 30033 - Undergraduate Dissertation

### Syllabus Information

**Academic year:** 2024/25

**Subject:** 30033 - Undergraduate Dissertation

**Faculty / School:** 110 - Escuela de Ingeniería y Arquitectura

**Degree:** 436 - Bachelor's Degree in Industrial Engineering Technology

**ECTS:** 12.0

**Year:** 4

**Semester:** Second semester

**Subject type:** End of Grade Dissertation

**Module:**

### 1. General information

The Degree Final Project (DFP) is a subject of 12 ECTS credits.

The objective of the DFP is to train the student to carry out, present and defend an integral project of electric engineering, as a demonstration and synthesis of the competences acquired in the degree. It is intended that the student performs an original work, under the supervision of a professor, in a complete way, including the elaboration of the work, presentation of results, discussion of the same, preparation of a report and public defense.

In accordance with the commitment of the 2030 Agenda, the Undergraduate Dissertation will explicitly show its direct contribution to the SDGs of the United Nations 2030 Agenda. In section 6 of this guide, the most frequent SDGs to which the course contributes are listed.

Passing this subject is mandatory for obtaining the degree in Industrial Technologies Engineering, according to the regulations and procedures in force.

### 2. Learning results

In order to pass this subject, the student must demonstrate the following results:

Be able to elaborate, present and defend individually an original exercise of professional character in the field of Industrial Engineering as a demonstration and synthesis of the competences acquired in the subjects.

Apply the acquired competencies to the performance of a task in an autonomous manner.

Recognize the knowledge and methods of various disciplines that need to be applied and combined to best solve a given problem.

Identify the need for continuous learning and develops its own strategy to carry it out. It decomposes a complex task into sub-tasks and plans its execution.

Use the necessary information to develop a project or academic work, and be able to select and organize it appropriately after a critical reflection.

Communicate clearly and efficiently in oral and written presentations on complex topics, adapting to the situation, type of audience and communication objectives.

### 3. Syllabus

The program of the work to be carried out as DFP, as well as the most appropriate typology for its development, is established by mutual agreement between the student and their director.

The DFP proposal is evaluated by the academic committee of the degree, which may approve, reject or request complementary information.

The modifications requested with respect to an approved proposal must once again have the favorable report of the academic committee of the degree program. The DFP proposal, once approved, will remain in effect as long as the student, with the approval of the director, does not expressly request its modification or cancellation.

### 4. Academic activities

The student must agree with their DFP director on the training activities, which may consist of academic work, tutoring sessions and evaluation of the follow-up of the work done, depending on the proposed topic and its scope.

Regular meetings will be held to follow up on the work and solve any doubts.

### 5. Assessment system

The assessment of the DFP will be based on the following aspects:

- The quality and depth of the work itself, in accordance with the scope and objectives set forth in the proposal and the deposit

made by the student, and considering the workload foreseen in the degree's verification report, - the evaluation made by the director, co-directors and, if applicable, the lecturer, in the report, and

-the public presentation of the work.

After the defense of the DFP, the members of the examining board must issue an individual evaluation report, from which the final grade will be assigned.

In the case of a failing evaluation of the DFP, the examining board must issue a report detailing the deficiencies, both methodological and content, that justify such a grade, indicating also the modifications that need to be introduced in the work, and a new defense of the work will be carried out.

## **6. Sustainable Development Goals**

7 - Affordable and Clean Energy

8 - Decent Work and Economic Growth

9 - Industry, Innovation and Infrastructure