

## 29634 - Undergraduate Dissertation

### Syllabus Information

**Academic Year:** 2019/20

**Subject:** 29634 - Undergraduate Dissertation

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

**Degree:** 430 - Bachelor's Degree in Electrical Engineering

**ECTS:** 12.0

**Year:** 4

**Semester:** Second semester

**Subject Type:** End of Grade Dissertation

**Module:** ---

### 1.General information

#### 1.1.Aims of the course

#### 1.2.Context and importance of this course in the degree

#### 1.3.Recommendations to take this course

### 2.Learning goals

#### 2.1.Competences

#### 2.2.Learning goals

#### 2.3.Importance of learning goals

### 3.Assessment (1st and 2nd call)

#### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

### 4.Methodology, learning tasks, syllabus and resources

#### 4.1.Methodological overview

The student must agree with the Director on the training activities to be developed, which will depend on the proposed topic and the scope of the project. The TFG will deal with some topics related to Electric Engineering, of complexity and level of exigency that supposes a workload estimated in 12 ECTS credits.

The TFG will take the form of a project, which will be described in a final report and presented and defended before a university court. In the TFG, a good part of the specific competencies of the degree are synthesized and integrated, being able to have the following modalities:

- specific academic papers;
- specific works performed in the laboratory;
- specific works performed as a result of internships in companies or institutions;
- equivalent work carried out as a result of a stay in another university, Spanish or foreign, through an agreement or mobility program.

From the point of view of its content and objectives, two types will be distinguished:

- Type A. Technical project, with standard structure and format, which must contain, at least, the following documents: report, plans, specifications, and budget.

- Type B. With a freer content, which may consist of technical studies, economic studies, studies on quality management, development and application of computer programs, research, etc ..., in the field of titling.

In the Intranet of the EINA you can consult offers of TFG proposed by teachers of the center. You can also consult professors of specific subjects of the degree by offering TFG in topics of interest for each student or propose original ideas for the realization of a TFG.

## **4.2.Learning tasks**

The specific learning activities for each TFG must be agreed with the TFG Director.

Course Competencias Informacionales for the TFG - Moodle- ADD: It is an optional tool for consultation and information as support for the realization of TFG. It has a support service or consultancy to answer questions about the course, attended by librarians of the Hypatia Library.

## **4.3.Syllabus**

There is not an established general working program. The student is encouraged to consult the TGA offers in the EINA web: <http://intraneteina.unizar.es/intraneteina/index.php?r=ofertasPfc/indexTFG>

## **4.4.Course planning and calendar**

The calendar of academic activities must be agreed in each case with the Director of the TFG.

In the case of the EINA, the different administrative steps to be fulfilled are expressed in its internal regulations of TFG <http://eina.unizar.es/trabajos-fin-de-estudios>.

Summarizing it briefly, the enrolment must be done (in the usual dates, in a manner analogous to the other subjects) and a proposal of TFG to be presented in the Secretariat for evaluation by the Academic Committee (at any time during the course). It is recommended to do it as soon as possible, but always with a minimum previous study of the state of the art, scope and methodology to follow, since the deposit of TFG with changes in the title or in the address will not be admitted regarding the approved proposal.

At the conclusion of the TFG, the director must fill in a standardized report, which will imply authorization for the deposit and defense of the TFG. It can only be deposited and defended within the deadlines set by the Centre for each course. Between the proposal of the TFG and its deposit must pass a minimum of 2 months.

Although within the general schedule, the TFG is framed in the second semester of the fourth year, the student may start before. Information on regulations, deposit instructions, deposit and defense bands, and administrative forms are available at <http://eina.unizar.es/trabajos-fin-de-estudios>.

## **4.5.Bibliography and recommended resources**