

Course guides

820135 - TFGEE - Bachelor's Thesis

Last modified: 04/06/2021

Unit in charge: Barcelona East School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.

Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Project subject).

Academic year: 2021 **ECTS Credits:** 24.0 **Languages:** Catalan, Spanish, English

LECTURER

Coordinating lecturer: Velasco Quesada, Guillermo

Others:

PRIOR SKILLS

It is convenient to have passed all the compulsory subjects of the curriculum.

REQUIREMENTS

The Bachelor project will be carried out, as a general rule, in the last semester of the degree. The Project should be enrolled in the last semester of the degree, when the student has a maximum of 36 ECTS to be completed. Registering the Project is a prerequisite for enrollment.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CEELE-TFG. (ENG) Exercici original a realitzar individualment i presentar i defensar davant un tribunal universitari, consistent en un projecte dins l'àmbit de les tecnologies específiques de l'enginyeria industrial de naturalesa professional en el que es sintetitzin i integrin les competències adquirides als ensenyaments.

Transversal:

03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

01 EIN N3. ENTREPRENEURSHIP AND INNOVATION - Level 3. Using knowledge and strategic skills to set up and manage projects. Applying systemic solutions to complex problems. Devising and managing innovation in organizations.

02 SCS N3. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 3. Taking social, economic and environmental factors into account in the application of solutions. Undertaking projects that tie in with human development and sustainability.

04 COE N3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.

06 URI N3. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

07 AAT N3. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

TEACHING METHODOLOGY

Student activities led by the professor.

Reading teaching material, texts and articles related to the contents of the subject.

Student's autonomous work



LEARNING OBJECTIVES OF THE SUBJECT

To use tools and techniques for the engineering project management including planning, development and execution. To know and implement rules and specifications. To write text with correct structure to the communication objectives.

To introduce the assessment to the audience following the correct strategies and resources. To identify the need and type of communication register, the surrounding and services within the knowledge field and context.

To develop and implement projects from the original guidelines transmitted by the professor within the aspects written before. To have a proactive attitude that generate new opportunities within a commercial perspective. To be able to evaluate the economic cost (budget) of the different tasks in the project.

To be able to analyse and evaluate the social and environmental impact.

STUDY LOAD

Type	Hours	Percentage
Self study	524,0	87.33
Guided activities	76,0	12.67

Total learning time: 600 h

CONTENTS

title english

Description:

Preliminary Project, final Project and viability. Phases and concepts

Full-or-part-time: 55h

Guided activities: 25h

Self study : 30h

title english

Description:

content english

Full-or-part-time: 55h

Guided activities: 25h

Self study : 30h

title english

Description:

content english

Full-or-part-time: 55h

Guided activities: 25h

Self study : 30h



title english

Description:

content english

Full-or-part-time: 55h

Guided activities: 25h

Self study : 30h

title english

Description:

content english

Full-or-part-time: 125h

Guided activities: 25h

Self study : 100h

title english

Description:

content english

Full-or-part-time: 45h

Guided activities: 15h

Self study : 30h

title english

Description:

content english

Full-or-part-time: 100h

Self study : 100h

title english

Description:

content english

Full-or-part-time: 106h

Self study : 106h

title english

Description:

content english

Full-or-part-time: 4h

Guided activities: 4h



GRADING SYSTEM

Evaluation from the presentation of a preliminary draft and a public presentation of the work before an assigned university commission. The commission will be take into account:

- Individual work
- Written and oral presentation related to the contents of the subject
- Written and oral presentation of the project before the commission that will assess the acquired competences knowledges and abilities.

EXAMINATION RULES.

In order to be able to present the work before the assigned commission, the final revision and authorization by the professor director of the final report is necessary.

The work must be presented according to the normalization established by the School. For this purpose, the student will find all the information and templates on the website of the School.