

## Course guide

### 340061 - TFGR-M8R40 - Bachelor's Thesis

Last modified: 07/06/2023

<b>Unit in charge:</b>	Vilanova i la Geltrú School of Engineering		
<b>Teaching unit:</b>	340 - EPSEVG - Vilanova i la Geltrú School of Engineering.		
<b>Degree:</b>	BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Project subject).		
<b>Academic year:</b> 2023	<b>ECTS Credits:</b> 24.0	<b>Languages:</b> Catalan, Spanish, English	

#### LECTURER

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<b>Coordinating lecturer:</b>	Amelia Nápoles Alberro
<b>Others:</b>	Tot el PDI de l'EPSEVG pot ser Director de TFG's.

#### PRIOR SKILLS

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It is advisable to have passed all the courses in the curriculum.

#### REQUIREMENTS

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The TFG will, as a rule, be held in the last quarter of the degree. Student can enrol in the last one quadrimester of the degree, when at most 36 credits remain to be exceeded. Enrollment of TFG is a prerequisite for Enrollment.

#### TEACHING METHODOLOGY

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Student Activities directed by TFG Director.  
Reading of didactic material, texts and articles related to the content of the subject.  
Self-employed work.

#### LEARNING OBJECTIVES OF THE SUBJECT

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Use techniques and tools for engineering project management, including planning, development and execution.  
To know and apply specifications, regulations and rules.  
Compose texts with the structure appropriate to the communication objectives.  
To present the text to an audience with the appropriate strategies and means.  
Identify your own information needs and use the available collections, spaces and services to design and run adequate research in the thematic field.  
To carry out tasks in charge of the basic guidelines given by the professor, deciding the time to be used in each section, including personal contributions and expanding the sources of information indicated.  
Take initiatives that generate opportunities, with a vision of process and market implementation.  
Ability to assess the economic cost of different tasks including work.  
Ability to analyse and assess the social and environmental impact.



## STUDY LOAD

Type	Hours	Percentage
Self study	590,0	98.33
Hours large group	10,0	1.67

**Total learning time:** 600 h

## CONTENTS

### Engineering Project

**Description:**

Phases and concept of preliminary draft, project and feasibility

**Full-or-part-time:** 55h

Guided activities: 25h

Self study : 30h

### Technical documentation

**Description:**

Identify information needs and use collections, spaces and services to design and execute searches suitable for the thematic area.

**Full-or-part-time:** 55h

Guided activities: 25h

Self study : 30h

### Project Management

**Description:**

Perform work based on basic guidelines, deciding time to devote to each section, including personal contributions and expanding information sources.

To assess the economic cost of the different tasks that include work.

**Full-or-part-time:** 55h

Guided activities: 25h

Self study : 30h

### Environmental and health and safety aspects of the project

**Description:**

Ability to analyse and assess the social and environmental impact.

**Full-or-part-time:** 55h

Guided activities: 25h

Self study : 30h

### Communication on projects

**Description:**

Compose texts with the structure appropriate to the communication objectives.

**Full-or-part-time:** 125h

Guided activities: 25h

Self study : 100h

### Normalization and regulation

**Description:**

To know and apply specifications, regulations and rules.

**Full-or-part-time:** 45h

Guided activities: 15h

Self study : 30h

### Contribution of a final career job as an integrating or synthesis exercise

**Description:**

Performing a project in the field of the specific technologies of mechanical engineering of a professional nature in the to summarise and integrate the skills acquired during the course of the studies.

**Full-or-part-time:** 100h

Self study : 100h

### Preparing Evaluable Activities

**Description:**

Preparing the presentation of texts and other material for the public exposure of the work done, taking into account the approach suitable strategies and means.

**Full-or-part-time:** 106h

Self study : 106h

### TFG Defense

**Description:**

Preparations and public defense before the assigned university court.

**Full-or-part-time:** 4h

Guided activities: 4h

## GRADING SYSTEM

Assessment based on the presentation of a project and a public exhibition of the work carried out before an assigned university court. The assessment will take into account:

- Individual work
- Written and oral presentation of the TFG to a court that will assess acquired skills, knowledge and skills.

## EXAMINATION RULES.

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In order to be able to defend work before the assigned court, the final review and authorisation by the teacher will be required director of the same of the final memory.

The work will have to be presented according to the normalisation of the work established by the School. To this goal, the student will find all information and templates on School website (<https://www.epsevg.upc.edu/es/curso-actual/tfe>).