

Academic Year: ( 2022 / 2023 )

Review date: 01-09-2021

Department assigned to the subject: Department of Mechanical Engineering

Coordinating teacher: BARBER CASTAÑO, RAMON IGNACIO

Type: Master Final Project ECTS Credits : 12.0

Year : 2 Semester : 1

#### REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

The Master thesis will be carried out once the rest of the subjects of the title have been completed. This fact allows, according to the official calendar, the presentation and defense before a designed court:

[https://www.uc3m.es/ss/Satellite/SecretariaVirtual/es/TextoMixta/1371210942587/Trabajo\\_Fin\\_de\\_Master\\_-\\_Escuela\\_Politecnica\\_Superior](https://www.uc3m.es/ss/Satellite/SecretariaVirtual/es/TextoMixta/1371210942587/Trabajo_Fin_de_Master_-_Escuela_Politecnica_Superior)

#### OBJECTIVES

Once all the credits of the curriculum have been obtained, the student must presents to a university court, an original exercise carried out individually. This consists on a Industrial Engineering nature project where the acquired competences are synthesized.

By the end of this subject, students will be able to have:

1. Advanced knowledge and deep understanding of the principles used in engineering, including cutting-edge techniques, technologies and methods in their field.
2. The ability to solve engineering problems through an analysis, modeling and design process (including problems outside standard guidelines).
3. The ability to develop and carry out the technological management of industrial engineering projects, including safety specifications and restrictions, as well as social, environmental and commercial aspects.
4. The ability to design and carry out research based on analysis, modeling and experimentation.
5. The ability to to apply their knowledge and understanding to solve problems, conduct research, design devices and define processes in the field of industrial engineering.
6. The generic capabilities necessary for engineering practice, and which are broadly applicable.

#### DESCRIPTION OF CONTENTS: PROGRAMME

- Work theme presentation
- Compilation and analysis of information related to the Master thesis work
- Master thesis development
- Final memory elaboration and defense before a court.

#### MASTER'S THESIS OFFERT:

- Offert is available at TFEPE (project board)  
<https://sigma-web.uc3m.es/InicioAlumno.html>

#### LEARNING ACTIVITIES AND METHODOLOGY

Training activities will include:

- Tutorials and, if applicable, group work
- Personal work of the student oriented to the completion of the Master's Degree Work.

Normativa específica del TFM

[http://www.uc3m.es/ss/Satellite?blobcol=urldata&blobheader=application%2Fpdf&blobheadername1=Content-Disposition&blobheadername2=Cache-Control&blobheadervalue1=attachment%3B+filename%3D%22NORMA\\_TFM\\_ING\\_INDUSTRIAL.pdf%22&blobheadervalue2=private&blobkey=id&blobtable=MungoBlobs&blobwhere=1371547511026&ssbinary=true](http://www.uc3m.es/ss/Satellite?blobcol=urldata&blobheader=application%2Fpdf&blobheadername1=Content-Disposition&blobheadername2=Cache-Control&blobheadervalue1=attachment%3B+filename%3D%22NORMA_TFM_ING_INDUSTRIAL.pdf%22&blobheadervalue2=private&blobkey=id&blobtable=MungoBlobs&blobwhere=1371547511026&ssbinary=true)

## ASSESSMENT SYSTEM

The student must prepare a report of the work done that will be delivered to the members of a chosen court for the purpose of evaluation.

The final evaluation will be done through an oral test of the Master's Thesis to a selected court, which will assess the work of the student, results obtained and their exposition, both of the memory and of the oral test.

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