

66432 - Design and Development of the Industrial Process

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	536 - Master's in Mechanical Engineering 330 - Complementos de formación Máster/Doctorado
ECTS	4.5
Course	XX
Period	Half-yearly
Subject Type	ENG/Complementos de Formación, Optional
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

The learning process that is designed for this subject is based on the following:

Learning is based on the understanding of the application of experimental techniques and optimization in different areas of design and development of industrial processes.

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To do this, the various concepts related to the subject in lectures and develop industrial case studies and introduce the different types of tools involved are introduced. The classes will be used for the drafting of course, with extensive tutorial assistance of specialist teachers in the area chosen by the student.

5.2.Learning activities

The program that the student is offered to help you achieve the expected results includes the following activities ... Learning activities scheduled are divided into lectures, classes technical cases and practical exercises, and supervised sessions of the subject project. Technical sessions and practical cases will go to exercises and technical cases aimed at enhancing the acquisition and assimilation of acquired knowledge in the theoretical part. Tutored sessions will be used for evaluation, correction and clarification of aspects of the proposed subject by each student, in order to analyze the possible shortcomings and answer questions to improve personal work. Timing and load distribution 4.5 ECTS: 112.5 hours / student 6 h. masterclass 12 h. technical case (6 sessions of 2 hours) 26 h tutored development 62.5 h. practical work

1 hour. job submission

5.3.Program

• Planning, simulation and optimization of manufacturing processes: Technical Case in sheet-metal forming processes.

• Performance optimization in industrial processes: Technical Case in design and configuration of production lines and warehouses.

• Optimization of production systems management. Technical Case in costing, inventory and product identification.

5.4.Planning and scheduling

Schedule sessions and presentation of works The schedule of the course, both of the sessions in the classroom and laboratory sessions , will be determined by the academic calendar that the center established for the corresponding course. The schedule for submission of papers shall be announced at the beginning of the course.

5.5.Bibliography and recommended resources

Students should consult research articles concerning their practical work , plus notes of ADD, the recommended literature and software aids .