29620 - Manufacturing Technology

Syllabus Information

Academic Year: 2019/20
Subject: 29620 - Manufacturing Technology
Faculty / School: 110 - Escuela de Ingeniería y Arquitectura
Degree: 430 - Bachelor's Degree in Electrical Engineering
ECTS: 6.0
Year: 3
Semester: First semester
Subject Type: Compulsory
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 learning process that is designed for this subject is based on the following:

The face teaching process will involve three main levels: lectures, problems and, laboratory, with an increasing level of student participation.

In sessions with the whole group, the more theoretical aspects are addressed in the form of the master class and are completed with the study of technical problems and cases. The practical sessions take place in smaller groups to work with specialized applications and equipment manufacturing workshop.

This process should be complemented by the non-contact work by the student through previous readings, the theoretical study of matter and problem-solving.

4.2.Learning tasks

4.3.Syllabus

The course will address the following topics:

Topic 1. Introduction to manufacturing processes. Definitions and classification.
Topic 2. Processes and manufacturing technologies:

- Processes for performing.
- Deformation processes.
- Material removal processes.

- Joining and assembly processes.

Topic 3. Manufacturing Systems: characterization and strategies.
Topic 4. Metrology and industrial quality.

4.4.Course planning and calendar

4.5.Bibliography and recommended resources