

30154 - Metallic Structures

Información del Plan Docente

Academic Year 2018/19

Subject 30154 - Metallic Structures

Faculty / School 179 - Centro Universitario de la Defensa - Zaragoza

Degree 457 - Bachelor's Degree in Industrial Organisational Engineering

563 - Bachelor's Degree in Industrial Organisational Engineering

ECTS 6.0

Year 4

Semester First semester

Subject Type Optional

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 course is planned to facilitate continuous and active student learning. Learning resources to be used to achieve it are:

- -Theoretical Classes given by the teacher to whole group. In these, theoretical concepts of the subject will be illustrated with examples to help understand and in which students are challenged to participate, reasoning about theoretical concepts exposed.
- -classes Problems. In these classes the contents of the theory classes are strengthened by performing carefully selected problems to cover all relevant aspects. Practical sessions organized so that students become familiar with spreadsheet



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programs. Individual realization of problems, homework and public exhibitions independently.

- -Tutorials In which the student will be helped to solve the doubts raised during learning.
- -Other Learning activities scheduled.

4.2.Learning tasks

- -Theoretical classes.
- -Classes about calculation programs.
- -Classes about problems of the subject.
- Group work sessions.
- -Tutorials.
- -Conferences Given by invited staff.
- -Visits to a work.

4.3.Syllabus

The program of lectures will focus on Document DB-SE_A, and will need the knowledge gained in the course *Structural Analysis*. It will develop the following sections:

Calculation bases.

Structural safety.

Resistance of the sections.

Resistance of the bars.

Welded joints.

Bolted joints.

4.4. Course planning and calendar

The available class sessions will be distributed in theoretical sessions, taught by the teacher, computer practices and public presentations by students about topics related to contents of subject. To help achieve the necessary skills in English, these presentations will be held in English.

The evaluation of the subject will be based on several exams, evaluation of practices and public presentations. In addition, students who don't pass such evaluation, two final exams will be held in official competitions.

If possible, a visit to a work will be made. This activity is common to the three subjets of the module. Lectures given by invited staff can be scheduled too.

Key dates will be announced by the teacher, both in class and through the platform moodle support.

4.5.Bibliography and recommended resources