

30724 - Structures 2

Syllabus Information

Academic Year: 2021/22

Subject: 30724 - Structures 2

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 470 - Bachelor's Degree in Architecture Studies

ECTS: 6.0

Year: 3

Semester: Second semester

Subject Type: Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, and problem-solving, computer laboratory.

The course is structured in 15 participatory lectures, given by teachers with multimedia support that will be previously provided to students. In addition, a total of seven practice sessions of two hours each and 15 other problem sessions have been organized in the form of conferences/seminars, in which students must face the difficulties of situations similar to those of the exam.

4.2. Learning tasks

This course is organized as follows:

- **Lectures**
- **Problem-solving**
- **Computer laboratory**

4.3. Syllabus

This course will address the following topics:

1. Introduction to the design of structures:
 1. Graphic statics
 2. Computational Graphic Statics
2. Introduction to the analysis of structures:
 1. Methods of flexibility
 2. Methods of stiffness

3. The finite element method

4.4. Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the College of Higher Engineering and Architecture (EINA) website (<https://eina.unizar.es/>) and Moodle.

4.5. Bibliography and recommended resources

[Library link](#)