

30730 - Construction 3

Información del Plan Docente

Academic Year	2018/19
Subject	30730 - Construction 3
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	470 - Bachelor's Degree in Architecture Studies
ECTS	6.0
Year	4
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 course consists of a theoretical part in which knowledge about construction solutions applicable to residential architecture is introduced.

In parallel, practical activities are devoted to the development of a execution project and technical detailing of a multifamily housing building. The exercises are performed in groups of 3-4 students during the semester and are supervised during the course, thus allowing a continuous evaluation.

Complementarily on site works visits and practical exercises are done in class.

4.2.Learning tasks

The program that students are offered to help them achieve the expected results includes

Total hours of student work: 150 hours (6 ECTS)

Theoretical credits: 75 hours (3 ECTS)

Practical credits: 75 hours (3 ECTS)

Classroom activities

1. Theoretical and problems resolution classes (large group).
2. Practical classes (intermediate group).
 - Case study discussions.
 - Tutorial sessions.
3. Visits to on-site building constructions, buildings or conferences.
4. Scheduled tutoring.
5. Written test

Distance activities

6. Studying and individual work.
7. Performing tasks and projects individually and/or in small groups.

4.3.Syllabus

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- Building structure layout and predimensioning in residential building.
- Introduction to the building enclosure and partitioning elements in residential building.
- Building closures in contact with the ground: basement walls, floors and slabs in contact with the ground, underground roofs.
- Roofs: roof types, ventilated flat roof, warm conventional flat roof, warm inverted flat roof, sloping roof on horizontal slab, sloping roof on inclined slab..
- Facades and party walls: types of facades, masonry facades, back-ventilated facades, party walls.
- Interior partitions: partitions with direct support on the slab, partitions with perimeter rubber bands, self-supporting structure partitions.

4.4.Course planning and calendar

Theoretical classes of 2 hours per week according to the School schedule.

Practical classes of 2 hours per week according to the School schedule.

The course assignments will have partial pre-delivery and final delivery dates that will be defined at the beginning of the course.

The date of the theoretical test will be included in the School exams calendar.

4.5.Bibliography and recommended resources