

Academic Year/course: 2021/22

30753 - Detail and Shape

Syllabus Information

Academic Year: 2021/22

Subject: 30753 - Detalle y forma

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 470 - Bachelor's Degree in Architecture Studies

ECTS: 6.0

Year: 5

Semester: Second semester

Subject Type: Optional

Module:

1. General information

1.1. Aims of the course

In this subject the student is intended to reach the necessary maturity to understand the project, in all its intensity, as a disciplinary integration, since the work of architecture is the synthesis of an effective management of complexity. The subject is taught jointly by the areas of ??Architectural Projects and Architectural Construction. This is why a more profound reflection of the technological systems is made, from the architectural detail, with a critical sense in the study of works that are referents of Architecture.

1.2. Context and importance of this course in the degree

This optional subject is offered in the intensification of Project and Construction as a means to deepen the visual mechanisms, and therefore project and aesthetics, derived from the understanding of the detail as an intensification of the architectural form.

In this subject the student has to get training in constructive reasoning and critical design, deepening, through the constructive detail of the constructed work, the architectural, aesthetic and functional requirements, which have given rise to the solutions studied. The student will discover the technological system, the evocation and the syntax of the materials in the whole of the work. The subject helps to demonstrate that in the process of approaching the project there must be a process of evolution in the resolution of the constructive detail that tends towards abstraction and, consequently, to universality.

This subject is taught bilingual, in Spanish and English. It is expected that academic courses starting with odd-numbered year will be offered on a biennial basis: 13/14, 15/16, etc.

1.3. Recommendations to take this course

Previous knowledge of Projects and Construction is recommended. This knowledge is taught in the subjects of Projects 1, 2, 3, 4, 5, 6 and 7, Construction 1, 2 and 3, and Integrated Workshop of Projects 3 of the Degree in Studies in Architecture by the University of Zaragoza.

2. Learning goals

2.1. Competences

CE. 85.OP Ability to deepen the visual and constructive values ??of the form

CE. 86.OP Understanding of structure as a support for form and space.

CE. 89.OP Ability to understand the tectonic and visual values ??of materials: detail as intensification of form.

CE. 90.OP Ability to integrate facilities, construction and structure: the project as a guarantor of order.

2.2. Learning goals

Ability to understand the architectural project as the result of the integration of constructive decisions.

Ability to discern and choose between different construction systems according to a specific project intention. Understand the balance between project and construction through constructive detail.

Be able to graphically define a project incorporating the constructive definition.
Be able to understand and define the constructive detail as intensification of the form. Knowing how to elaborate constructive details, that express the architectural fact and its construction.
Ability to demonstrate that the solution, both visual and constructive of the detail, influences the construction of the architectural form.

2.3. Importance of learning goals

Precision both in the graphic representation and in the conceptual definition from the scale of the constructive detail in the work of Architecture.

Architectural expression through the constructive detail.

Coherence between the construction and the architectural project through the choice of structural, construction and architectural detail systems.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

The learning process is progressive. Weekly, following the evolution of the student, the teacher will accompany and supervise the process and progress of the exercises. This implies that the student has to work throughout the semester presenting their evolution every week. Being an eminently practical subject requires continuous monitoring to be effective. Therefore, in order to be qualified by course, the student must have delivered the exercises that are submitted on the required date as well as the partial deliveries assigned in each of them. At the end of each exercise the teacher will indicate the state of learning in which each student is. The intensity of the reflection on the contents as well as the maximum density and interest of the final result will be valued. Therefore, the student will be evaluated through a practical exercise carried out throughout the course, with pre-delivery and final delivery with presentation included.

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, practice sessions, and seminars.

The course is taught in lectures and practice sessions throughout the course and is evaluated with a practical exercise developed during the course. Seminars presented by students and tutored by teachers will also be included. These seminars will be oriented to the visual and tectonic analysis of architecture referents.

4.2. Learning tasks

This course is organized as follows:

- **Lectures**
- **Practice sessions**
- **Seminars**

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

Theory credits: 75 hours (3 ECTS)

Practice credits: 75 hours (3 ECTS).

4.3. Syllabus

This course will address the following topics:

A critical analysis of different works that have been referents in architecture, studying their constructive and structural solutions and the tectonics of their materials from the dimension of architectural detail will take place.

There will be a presentation of various similar works prepared as research projects that will serve as guidelines for students.

4.4. Course planning and calendar

Lectures of 1 hour per week according to the schedule of the School.

Practice sessions of 3 hours per week according to the schedule of the School.

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.