

Academic Year/course: 2022/23

30709 - Architectural Shapes Analysis

Syllabus Information

Academic Year: 2022/23

Subject: 30709 - Architectural Shapes Analysis

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 470 - Bachelor's Degree in Architecture Studies

ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Basic Education

Module:

1. General information

1.1. Aims of the course

1.- Approach of the subject.

The subject is taught through two types of activities, theoretical sessions and practical sessions. In these theoretical sessions, we will begin by imparting basic questions of architectural representation, the language that is used in architecture to transmit information and knowledge. On a second level, it will be explained how using this graphic resource, architectural works built of recognized prestige are analyzed, also how this information is processed and reflected for this phase it will be necessary to extract bibliographic information from newspaper libraries, is previewed the participation with a course proposed from the library Hypatia, to the new grades. In a third block, we work on the presentation of elements created without the tool can limit creativity, will be the preparation to project.

In the practical sessions, which will be held in an open workshop, the works proposed in the theoretical sessions will be developed, with the same progressive vision beginning by learning the language through drawing, to go on to analyze nearby architectures, putting these analyses to scale in real magnitude, to conclude with three-dimensional architectural analyses of works of modern architecture.

Small groups will be made, so that there is a real and effective tutoring of learning, catalyzing the speed of application of the architectural language in the works of the students. There will be regular public corrections of the work, by the teachers of the subject and sharing the work of the groups and the student will receive a more global training, without losing the detail of their group work.

The theoretical and practical classes in the classroom will be complemented with external practices to the analysis work of the subject.

2.- General objectives.

- Provide the student with the necessary tools to know the graphic architectural language.
- Equip the student with the ability to carry out an analysis of architectural forms of a built building, using graphic resources.
- Give the student the ability to analyze a complex architectural work, starting from graphic documentation, using two-dimensional and three-dimensional resources.
- Get the student to use basic project tools (sketches, plans, analyses, photorealistic perspectives and models).

3.-ODS

It is a subject whose contents evaluable by themselves do not yet give direct abilities to the student to contribute to the achievement of the 2030 Agenda however are essential to support the subsequent knowledge of the rest of the degree that if relate more directly with ODS and the 2030 Agenda.

ODS 9. INDUSTRY, INNOVATION AND INFRASTRUCTURE

OBJECTIVES.- 9.1 Develop reliable, sustainable, resilient and quality infrastructure, including regional and cross-border infrastructure, to support economic development and human well-being, with particular emphasis on affordable and equitable access for all.

CONTENTS AND EVALUABLE ACTIVITIES: In the subject, the complete analysis of certain buildings is carried out graphically and among other factors, reliability, sustainability and quality are considered, as well as learning with examples where the problems of location, orientation,..., can be transformed into positive opportunities.

1.2. Context and importance of this course in the degree

The subject Analysis of Architectural Forms, is located in the context of the first year of the degree in architecture, is a subject of introduction to architectural design and contains the basic graphic tools for the realization of architectural projects. It is a subject of synthesis of knowledge learned in the first semester and in the second regarding graphic expression, being its development eminently practical.

1.3. Recommendations to take this course

This subject is located at the end of the first year and is a subject of synthesis, where most of the knowledge acquired in the other subjects of the first year graphic expression are practice (Ega2, Ega 4, Ega1 and Ega3).

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 theory sessions, practice sessions, and visits.

The orientation of the course is eminently practical, so the activities being proposed both in the hours, mainly hours of workshop, and outside them are practice sessions directly related to the analysis of architectural forms and the ability to present and represent objects or spaces. Activities that relate to the analysis of urban public spaces, or buildings may be substituted for other locations or similar buildings, according to the needs of the course or other external factors, permissions, rain, external practical budgetary availability.

4.2. Learning tasks

This course is organized as follows:

First section. An initial section of introduction to architectural analysis, where the following activities are planned:

- **Theory sessions:** The student will be taught, examples where the architectural building is represented, having an approximation of the representation of architectural or urban elements, through its floors, elevations, sections, site plans, etc. Students will be shown resolved examples of how architecture is represented through their plans.

In the second section, the analysis of architectural shapes will be deepened with the following activities:

- **Theory sessions:** Examples of analysis of small complete buildings will be shown, increasing the level of quality and complexity of the drawing (sketches and delineation), teaching the conventions or usual graphic codes in the architectural representation, the analysis will deepen in aspects such as:
 - Context analysis.
 - Spatial analysis.
 - Formal analysis.
 - Functional analysis.
 - Constructive analysis.
- **Practice sessions:** The topics explained in the theory sessions will be developed, closely supervised by the teachers. To carry out this work, a nearby architectural building or complex will be taken as an example, so that students take their data and analyze a building that they have been able to visit. Various proposals are proposed such as the Public Library of Aragon, the library of the Faculty of Economics, etc. ; The possibility of carrying out an external practice is not discarded, in order to improve the architectural quality of the example taken, such as the German pavilion of the Barcelona Exhibition of 1.929 by the architect L. Mies Van der Rohe among others, but these activities will depend of the near visit schedule, financial resources, etc.

In the third section, the following activities are proposed:

- **Theory sessions:** Examples of analysis of complete buildings, masterpieces of modern architecture will be shown, where works by architects such as Frank Lloyd Wright, Le Corbusier, L. Mies Van der Rohe, Alvar Aalto or Arne will be taught and analyzed. Jacobsen, works that the students will not be able to know more than by the graphic documentation and the explanations provided by the different professors participating in these sessions. In this last phase, it is intended that the student analyze the architectural forms through graphic documents, so we will attend

the library programmed course for first-year students, which explains the most convenient system for the search of resources.

- **Practice sessions:** The topics explained in the theory sessions will be developed, analyzing, each student, some of the masterpieces of the architecture, documenting it and generating new resources, both in two dimensions and in three dimensions.

4.3. Syllabus

This course will address the following topics:

Theory sessions

- 01 PRESENTATION
- 02 CROQUIS / AXONOMETRIC
- 03 HIGHLIGHTS AND SECTIONS
- 04 PLANS
- 05 SKETCH
- 06 ANALYSIS / CONTEXT ANALYSIS
- 07 FORMAL ANALYSIS / SPACE ANALYSIS
- 08 FUNCTIONAL ANALYSIS / TECHNICAL ANALYSIS
- 09 MODELS / 10 PRESENTATION 2nd WORK
- 10 FRANK LLOYD WRIGHT
- 11 LE CORBUSIER Ville Savoie
- 12 G RIETVEL Ville Schroeder
- 13 LE CORBUSIER house for Dr. Curruchet
- 14 MIES VAN DER ROHE Farnsworth House.

Practice sessions

- PRACTICE DOCUMENTATION IN THE LIBRARY
- CROQUIS OF A FURNITURE OBJECT
- CROQUIS OF AN ARCHITECTURAL ELEMENT
- HOUSE PRACTICE / CROQUIS OF THE PLANT OF THE ASSIGNED HOUSE
- HOUSE PRACTICE / CROQUIS LIFTED AND SECTION
- HOUSE PRACTICE / CONTEXT ANALYSIS
- HOUSE PRACTICE / FORMAL AND SPACE ANALYSIS
- HOUSE PRACTICE / FUNCTIONAL ANALYSIS
- DELIVERY DRAWINGS AND ANALYSIS
- MODELS
- PRACTICE 2 DRAWINGS
- PRACTICE 2 ANALYSIS
- PRACTICE 2 RENDER

4.4. Course planning and calendar

The development of each class will be explained in the first session, placing it in the Moodle of the course for future reference or for students who cannot attend class.

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

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30709>