Universidad Zaragoza

Year : 2020/21

30709 - Architectural Shapes Analysis

Syllabus Information

Academic Year: 2020/21
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

1.2.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 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 Lloid 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 LLOID WRIGTH
- 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

- Ching, Frank. Manual de dibujo arquitectónico / Francis D. K. Ching ; [versión castellana de jorge Carbonell y Santiago Castán] . - 3ª ed. rev. y amp., 5ª tirada Barcelona : Gustavo Gili, 2007
- Ching, Frank. Arquitectura : forma, espacio y orden / Francis D. K. Ching ; [versión castellana de Santiago Castán] . - 3ª ed. rev. y act. Barcelona : Gustavo Gili, D.L. 2010
- Montes Serrano, Carlos. Representación y análisis formal : lecciones de análisis de formas / Carlos Montes Serrano Valladolid : Universidad de Valladolid, Secretariado de Publicaciones, D.L. 1992