Universidad Zaragoza

Academic Year/course: 2023/24

28603 - Graphic design applied to building

Syllabus Information

Academic year: 2023/24
Subject: 28603 - Graphic design applied to building
Faculty / School: 175 - Escuela Universitaria Politécnica de La Almunia
Degree: 422 - Bachelor's Degree in Building Engineering
ECTS: 6.0
Year: 1
Semester: First semester
Subject type: Basic Education
Module:

1. General information

The initial goal is to learn the most common and used techniques and ways of expression. But in addition to knowing to express oneself through drawing, it is essential and equally important to learn to observe what we are going to have to represent and then capture on paper. Before drawing or projecting something we have to understand those elements that we will have to draw later on

These approaches and goals are aligned with the following Sustainable Development Goals (SDGs) of the United Nations Agenda 2030(https://www.un.org/sustainabledevelopment/es/), so that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to their achievement

SDG 4. Ensure inclusive, equitable and quality education and promote lifelong learning opportunities for all

SDG 5. Achieving gender equality and empowering all women and girls

2. Learning results

Ability to apply the systems of representation: dihedral system

Ability to develop sketches, proportionality, language, and graphic representation techniques of the elements and construction processes.

Introduction to 2D and 3D CAD

Ability to interpret and prepare the graphic documentation required for a basic architectural project.

Ability to obtain plans for building and construction projects.

Know the basics of drawing applied to construction

3. Syllabus

1. Graphic Expression Techniques

1. Basic freehand drawing techniques.

2. Presentation, margins, contents of a box

3. Concept of ground plan, elevation, section, their interrelation, dimensioning

4. Sketch

5. Scaling

1. Plant

2. Elevation

3. Section

4. Scales

5. Line value

2. 2D CAD

1. Presentation of the program, interface, files, saving, options...

2. Entering commands, commands, coordinates

3. Drawing tools

4. Modification tools

5. Layers

6. Object insertion options
7. Configuration of presentations

4. Academic activities

- Workshop-type autonomous work
- Theoretical and expository classes
- Classroom practice/seminars/workshops
- Computer practices.
- Group and individual tutoring
- Tutorials : may be face-to-face or virtual.

5. Assessment system

COURSE ASSESSMENT

Croquizado 30%

Development of freehand drawing exercises in a correct way following the principles of technical drawing **Scaling 40%**

Development of the models according to the usual scale according to the project to be developed

Project 2D 30%

Development of a project in 2D CAD.

Each evaluable milestone must have a minimum score of 4 out of 10 points.

FINAL ASSESSMENT

100% evaluation test