

28616 - Graphic Expression of Construction Technologies

Información del Plan Docente

Academic Year	2016/17
Academic center	175 - Escuela Universitaria Politécnica de La Almunia
Degree	422 - Bachelor's Degree in Building Engineering
ECTS	6.0
Course	2
Period	Second semester
Subject Type	Compulsory
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

The learning process that is designed for this subject is based on the following: The teaching methodology is based on a strong interaction teacher / student. This interaction is materialized by a division of labor / responsibilities between students and teachers. Classroom activities: Theoretical classes: theoretical concepts of the subject will be explained and practical examples will be developed. Tutored practical classes of problems: Students will develop examples and conduct problems or case studies concerning the theoretical concepts studied. tutored autonomous activities: These activities will be tutored by teachers of the subject. The student will be able to perform these activities in the center, under the supervision of a professor of the branch / department. Reinforcement activities: Through a virtual education portal (Moodle) various activities that reinforce the basic contents of the subject be addressed. These activities will be personalized and controlled its realization through it.

28616 - Graphic Expression of Construction Technologies

5.2.Learning activities

A summary of the indicative temporal distribution of a school week can be seen in the following table. These values are obtained from the record of the subject of Memory Verification degree, taking into account the degree of experimentalism considered for this subject it is high

5.3.Program

contents

Contents of the subjects essential for achieving the learning outcomes.

The guidelines followed to develop the contents were as follows:

- Proposed in the verification report contents were respected.
- An agenda whose chapters are generally consistent with the titles of the specified program was developed. When this was not done it was because of its size and / or correlation was included in another.
- A large bibliography of recognized technical, classical and current issues was selected.
- The best literature treated subjects were selected and turned into a single text, design and own format, with innovative teaching resources. The teacher has not claimed to be unprecedented in its preparation, is based on texts by renowned, are only original objectives, organization and presentation of the material and drafting of some sections of the issues. The full text is available in the reprographic service of the school, as well as on digital media published in Moodle.

Matter to develop along the course is divided into two sections, corresponding to the methodology to be followed:

Block 1: Contents Theorists

Block 2: Practical Contents

1 Theoretical contents.

Topic 1

Fundamentals of the subject

- Data collection
- Dimensioning
- Measurements
- Drawings of Natural

Topic 2

Planimetric representation systems.

- Catalog adequacy of plans and scales.
- Elevation, plan and section.
- Types of lines, values and Lines, Patterns, Textures ...

item 3

Representation of structural systems

- Foundations
- Elements Vertical
- Elements Horizontal

item 4

Representation of building systems

- Covers
- facades
- Foundations

item 5

Representation of Facilities

- Plumbing
- Sanitation
- Air conditioning
- Electricity

item 6

The presentation of documents

28616 - Graphic Expression of Construction Technologies

- Presentation systems
- Types of Views
- Combining 2D and 3D documents
- Photos
- Texts

Study guide

The theoretical explanations of the subject are always routed to the graphical representation of the solutions adopted. For proper development of the subject it will be necessary to recall the knowledge acquired in subjects of 1st degree course.

2 Practical contents

Each topic discussed in the previous section, has associated practices in this regard, whether through practical cases, interpretation and commentary on readings associated with the subject and / or work leading to obtaining results and their analysis and interpretation. As topics are developed considering these practices will go either in class or through the Moodle platform

5.4.Planning and scheduling

5.5.Bibliography and recommended resources

- González Moreno-Navarro, José Luis. Claves del construir arquitectónico. T. I, Principios / José Luis González, Albert Casals, Alejandro Falcones . - 1ª ed., 4ª tirada Barcelona : Gustavo Gili, 2006
- González Moreno-Navarro, José Luis. Claves del construir arquitectónico. T. II, Elementos : elementos de las instalaciones y la envolvente / José Luis González, Albert Casals, Alejandro Falcones. - 1ª ed., 3ª tirada Barcelona : Gustavo Gili, 2006
- González Moreno-Navarro, José Luis. Claves del construir arquitectónico. T. II, Elementos : elementos del exterior, la estructura y la compartimentación / José Luis González, Albert Casals, Alejandro Falcones. - 1ª ed., 3ª tirada Barcelona : Gustavo Gili, 2006
- España. Ministerio de la Vivienda. Código Técnico de la Edificación / edición preparada por Departamento de Redacción Aranzadi. - 2ª ed. Cizur Menor (Navarra) : Aranzadi, 2008