

**Academic Year/course:** 2021/22

## **28616 - Graphic Expression of Construction Technologies**

### **Syllabus Information**

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**Academic Year:** 2021/22

**Subject:** 28616 - Graphic Expression of Construction Technologies

**Faculty / School:** 175 - Escuela Universitaria Politécnica de La Almunia

**Degree:** 422 - Bachelor's Degree in Building Engineering

**ECTS:** 6.0

**Year:** 2

**Semester:** Second semester

**Subject Type:** Compulsory

**Module:**

## **1. General information**

### **1.1. Aims of the course**

The main objective of this subject is to deepen the aspects of graphic expression in a more technical, technological and constructive way

A syllabus is proposed that corresponds to each one of the chapters that we can find, to make room for most of the planimetric documents that will be required for the normal and normal development of a Building Project.

Some theoretical knowledge is presented that will be seen in other subjects of the Degree, deepening especially in the most practical aspects and how they have to represent each of the elements that make up the drawing in each case to be complete documents, capable of express what is desired and that are readable by another competent technician.

The subject is eminently practical and requires a continuous relationship between students and faculty to follow and develop correctly the proposed works that accompany each of the topics

These approaches and objectives are in line with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the course learning outcomes provides training and competence to contribute to their achievement to some degree.

Goal 1: End poverty in all its forms everywhere

Goal 2: Zero Hunger

### **1.2. Context and importance of this course in the degree**

It is a subject located in the fourth semester of studies (which would be equivalent to the second semester of the second year).

It is mandatory.

It has a teaching load of 6 ECTS

### **1.3. Recommendations to take this course**

It is recommended to have passed the subjects Graphic Expression applied to the Engineering of

## **2. Learning goals**

### **2.1. Competences**

G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11 G12 G13 G14 G15 G16 G17 G18 G19 G20 G21 G22  
CE1

### **2.2. Learning goals**

Ability to interpret and develop the graphic documentation required in a basic architecture ar

Ability to interpret and elaborate all the graphic documentation of a Basic architecture project

Ability to take data shots

Ability to carry out survey of plans

Ability to apply the latest generation CAD and BIM programs to the infographic development of

Ability to obtain plans for building projects.

## 2.3. Importance of learning goals

You will learn to represent each plane or each constructive element in a way appropriate to the

Besides knowing how to represent the planes, it is of vital importance to know how to interpret

Likewise, techniques will be learned to present and correctly represent all the documentation

## 3. Assessment (1st and 2nd call)

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

#### Evaluation by course

Presentation of the project 40%

Development of the 40% BIM methodology project

ISABTP Project 20%**Final evaluation**

100% evaluation test

## 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 practice sessions, seminars, workshops, computer sessions, tutorials and autonomous work and study.

The subject is based on the autonomous work of the students. A project will be presented to develop parts in a group and individual parts. Groups should answer questions and solve any problems that exist. The faculty will assist in the development of the assignment so that the result is optimal.

The project will work together in an interdisciplinary and international work environment with the French University ISABTP.

If classroom teaching were not possible due to health reasons, it would be carried out on-line

### 4.2. Learning tasks

This course is organized as follows:

- **Practice sessions/ seminars / workshops**
- **IT Practices**
- **Exhibition classes**
- **Tutorials**
  - Group tutorials
  - Individual tutorials: they can be face-to-face or online.

### 4.3. Syllabus

This course will address the following topics:

#### 1. Draft

1. Normative
2. Graphic Documentation
3. Structure
4. Facilities

## 5. Constructive Solutions

### 2. BIM

#### 4.4. Course planning and calendar

Development of the project: 15 weeks

Meeting with ISABTP (Example according to other courses):

1. February (Jaca)
2. March (La Almunia)
3. May (Anglet)

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 Faculty of EUPLA website and Moodle.

#### 4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=28616>