Universidad Zaragoza

Year : 2019/20

28604 - Building history

Syllabus Information

Academic Year: 2019/20
Subject: 28604 - Building history
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: Compulsory
Module: ---

1.General information

1.1.Aims of the course

The subject and its expected results respond to the following approaches and objectives:

It is a subject whose purpose is to initiate the student in the study of the constructive processes that intervene in the architectural fact through time, with the purpose of acquiring the general concept of what the discipline of Building History is.

Offer general knowledge of the field of construction, taking a global and comparative view from the first buildings and construction techniques to current.

Identify the construction systems of each time in each building to be able to act on it in an appropriate way and perform the correct execution of adopted solutions.

Identify terms, constructive elements and their components, defining the mission of each of them framed in their historical period.

Develop the sense of observation as well as the logic reasoning to reach the understanding and resolution of constructive problems of other times.

Interpret the behaviour of these elements in themselves and in relation to others.

Know the historical evolution of the different systems and construction processes, as well as their location in their corresponding chronological periods.

To awaken in the student the interest in these subjects, which he sees for the first time from the specific point of view that this subject poses.

Show him how to look at architecture in a new way, the architect's one.

Provide the student an adequate training base for his future professional work in related fields.

To awaken in the student the interest to travel, not only as an indispensable means to know directly what has been explained to him, but also to "open his mind" and his understanding to the enormous complexity of our world.

1.2.Context and importance of this course in the degree

Building History is a compulsory subject with specific training character that is taught in the first semester of the first year of the Bachelor's Degree in Building Engineering, with a teaching load of 6 ECTS credits.

It is part of the subject of Building, Maintenance and Architectural Constructions, within the module called Building Techniques and Technologies.

This subject is fundamental in the correct formation of a Building Engineer, since the contents expose the student the roots of the long process of the construction of architecture and its evolution over time. Essential knowledge to understand our current architectural landscape.

The acquired learning after his study supposes an indispensable base for the development of his professional activity, that will make him understand better his paper inside the process of the construction of the architecture. It has a direct and indispensable application in those fields of professional activity directly related to the Monumental Restoration, as well as those related to the production and management of related cultural activities.

1.3.Recommendations to take this course

Without prerequisites beyond those marked by the ministry for access to a Bachelor's Degree in Building Engineering.

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 lectures, practice sessions, fieldwork, conferences, tutorials, and autonomous work and study.

A strong teacher-student interaction is promoted. This interaction becomes a reality through a division of work and responsibilities between the students and the teacher.

For the learning process, the student will have the basic contents available through lectures given by the teacher. These contents will give rise to both the questions considered in the practice sessions and the work that students must develop autonomously, always monitored by the teacher.

4.2.Learning tasks

This 6 ECTS (150 hours) course is organized as follows:

- **Lectures** (4 hours). Theoretical activities carried out mainly through explanation by the teacher, where the theoretical supports of the course are given, highlighting the basics, structuring them into topics and/or sections, interrelating them. The lecture is supported by the projection of audio visual presentations, including different images and videos. The student is provided through Moodle with both the notes prepared by the teacher to support lessons and the recommended bibliography.
- **Practical lessons** (2 hours). The weight of these sessions is shared between teacher and students. The teacher solves practical cases for teaching purposes. This type of teaching complements the theory shown in the lectures with practical aspects.
- **Fieldwork and conferences**: Visits to construction sites are very useful in order to learn to identify in situ elements and construction systems defined in the classroom. It will be especially interesting to visit constructions which are in the process of rehabilitation, accompanied by the technicians responsible for its management and execution to visualize the constructive solutions used and deal with the real problems. The attendance to conferences related to the course is also considered, in both the University of Zaragoza and other institutions.
- **Tutorials.** Those carried out giving individual, personalized attention with a teacher from the department. They may be in person (department) or online (Moodle or mail).
- **Autonomous work and study.**
    - Study and understanding of the theory taught in the lectures.
    - Understanding and assimilation of the problems and practical cases solved in the practical classes.
    - Preparation of seminars, solutions to proposed practice tasks, etc.
    - Preparation of the written tests for continuous assessment and final exams.
    - Reinforcement activities: Activities that reinforce the basics of the course are assigned from Moodle. The monitoring of these activities is carried out in a personalized way. This kind of activities provides the teacher with attitude, effort and performance evaluation of the student learning.

The combination of these learning activities is considered essential for students to be able to achieve the objectives. Thus, after an initial theoretical explanation, the students will be instructed in solving practical problems associated to complete their understanding of the course and eventually they will be placed facing a problem to be addressed independently without the direct participation of the teacher who will, nevertheless, act as a counsellor.

4.3.Syllabus

This course will address the following topics:

PRECLASSICAL ARCHITECTURAL CONSTRUCTION

- T.0. The origins: the preclassical construction

CLASSIC ARCHITECTURAL CONSTRUCTION

- T.1. Greek construction and background
- T.2. Roman construction and background

MEDIEVAL ARCHITECTURAL CONSTRUCTION

- T.3. Early Christian and Byzantine construction
- T.4. Hispanic-Visigothic, Hispanic-Islamic and ?Mudejar? construction
- T.5. Romanesque construction and Pre-Romanesque background
- T.6. Gothic construction

MODERN AND CONTEMPORARY ARCHITECTURAL CONSTRUCTION

- T.7. Construction from the Renaissance to the 19th century
- T.8. 19th and 20th century construction

4.4.Course planning and calendar

Schedule sessions and presentation of works

Week	Content	
1	Presentation and T.0. The origins: the preclassical construction	T1. Greek construction
2	T1. Greek construction	T2. Roman construction
3	T2. Roman construction	
4	T2. Roman construction	
5	T3. Early Christian and Byzantine construction	
6	T4. Hispanic-Visigothic construction	
7	T4. Hispanic-Islamic/ Mudejar construction	
8	T5. Romanesque construction and Pre-Romanesque background	
9	T5. Romanesque construction	
10	T6. Gothic construction	
11	T6. Gothic construction	
12	T7. Construction from the Renaissance to the 19th century	
13	T8. 19th and 20th century construction	
14	T8. 19th and 20th century construction	
15	Tutorial/ Assessment	

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://biblos.unizar.es/br/br_citas.php?codigo=28604&year=2019