

28633 - Technical Projects I

Syllabus Information

Academic Year: 2019/20

Subject: 28633 - Technical Projects I

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

Degree: 422 - Bachelor's Degree in Building Engineering

ECTS: 6.0

Year: 4

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:

The specific objectives of the course are:

- ? Ability to develop projects
- ? Ability to understand the regulatory framework
- ? Learning about the different methods of presenting projects
- ? Ability to interpret a project
- ? Learning about the role and responsibilities of the designer
- ? Learning about the techniques and tools for writing a demolition project

1.2.Context and importance of this course in the degree

The course is programmed in the 4th year of the Degree in Technical Architecture. Therefore, students have the sufficient knowledge to take the subject without particular difficulties, other than those of the course, itself.

After the completion of this course, along with the subject of Projects II, students must be able to deal with any type of projects in the field of construction, whatever their nature and circumstances are.

1.3.Recommendations to take this course

There are no previous knowledge requirements, other than those scheduled by the education council for the access to a University degree in Building Engineering.

It is recommended to have passed all the courses of the Area of ??Technical Drawing and Projects, studied previously in the Degree: Technical Drawing applied to Building, Descriptive Geometry and Graphic Expression of Constructive Technologies. Also, it is recommended to have passed the courses of Building I, II and III and, finally, the courses on Structures and Installations.

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, tutorials, and autonomous work and study.

4.2.Learning tasks

This course is organized as follows:

- **Theory sessions**, where teachers explain and implement the contents of the course, which coincide with the contents of various projects and building work.
- **Practice sessions**, theory will be put into practice with specific cases building projects. These sessions have a double typology:
 - **Workshops**: development of the work done. Working individually or in groups according to the practice. Monitoring and supervision of the work by teachers.
 - **Exhibitions and debates**: Explanation of the work performed, arguing solutions and establishing a debate and dialogue among students. Of the topics presented, each student must be able to recognize those sections that apply in the various practical cases of a specific project. Each project has specific specifications. It is proposed to develop, in parallel to the theory, a prototype of a project, and go working and completing all documentation necessary for each case, knowing how to discern those contents that are applicable in each case, finding the optimal solution, justifying them.

4.3.Syllabus

This course will address the following topics:

GRAPHIC DOCUMENTATION AND PLANS

- LOCATION , LOCATION , URBANIZACIÓN
- DISTRIBUTION AND COORDINATE
- PLANTS
- ALZADOS
- SECTIONS
- CONSTRUCTIVE DETAILS
- Carpentry, locksmith , OTHER
- PLANNING STRUCTURES
- FACILITIES PLANNING
- JUSTIFICATION OF THE LEGISLATION
- SAFETY STUDY PLANS
- PROPOSALS FOR ACTION

DEMOLITION PROJECTS

- DEMOLITION
- THE DESTRUCTION
- SUSTAINABLE ACTIONS AND RECOVERY AND RECYCLING

OTHER WORK IN THE FIELD OF BUILDING

- TECHNICAL REPORTS , AND VALUATIONS PERITACIONES

- SURVEYING PLANS
- STUDIES IN BUILDING PATHOLOGY
- CONSOLIDATION
- RESTORATION -REFORM
- DEMARCATIONS and stakeout

TOXIC MATERIALS

- ASBESTOS
- fiber cement
- PATHOLOGY AND PRECAUTIONS
- OTHERS

HEALTH AND SAFETY STUDIES

- EVALUATION OF WORK
- RISKS EVALUATION
- PREVENTION MEASURES
- CORRECTIVE MEASURES

WASTE MANAGEMENT

BUDGETS AND MEASUREMENTS OF DEMOLITION PROJECT

4.4.Course planning and calendar

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 (<http://moodle.unizar.es>).

4.5.Bibliography and recommended resources

http://biblos.unizar.es/br/br_citas.php?codigo=28633&year=2019