

28780 - Measurements and Budgets

Syllabus Information

Academic Year: 2019/20

Subject: 28780 - Measurements and Budgets

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

Degree: 423 - Bachelor's Degree in Civil Engineering

ECTS: 6.0

Year: 4

Semester: First semester

Subject Type: Optional

Module: ---

1.General information

1.1.Aims of the course

Provide the students with the necessary skills to carry out an adequate economic management of the works, from the point of view of the budget, consistent with their professional responsibilities.

1.2.Context and importance of this course in the degree

The subject of Measurements and Budgets means an essential cornerstone for the Graduate in Civil Engineering. These graduates have responsibilities related to measurements and work budgets. In addition, due to the high level of qualification in this field, European countries demand this type of professionals as they are knowledgeable in both technical and economic areas of the building process.

1.3.Recommendations to take this course

High level of knowledge in constructive solutions as well as building processes and the different systems, acquired in the subjects of Building, Construction Equipment, Planning, Procedures, Management and Organisation and Structures.

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

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The learning process designed for this subject is based on the following:

Strong interaction between the teacher/student. This interaction is brought into being through a division of work and responsibilities between the students and the teacher. Nevertheless, it must be taken into account that, to a certain degree, students can set their learning pace based on their own needs and availability, following the guidelines set by the teacher.

The current subject Mediciones y Presupuestos (Quantity surveying and budgets) is conceived as a stand-alone

The current subject Mediciones y Presupuestos (Quantity surveying and budgets) is conceived as a stand-alone combination of contents, yet organized into three fundamental and complementary forms, which are: the theoretical concepts of each teaching unit, the solving of problems or resolution of questions and laboratory work, at the same time supported by other activities. The organization of teaching will be carried out using the following steps:

1. Theory Classes: Theoretical activities carried out mainly through exposition by the teacher, where the theoretical supports of the subject are displayed, highlighting the fundamental, structuring them in topics and or sections, interrelating them.
2. Practical Classes: The teacher resolves practical problems or cases for demonstrative purposes. This type of teaching complements the theory shown in the lectures with practical aspects.
3. Self practical activities: The students solve different kind of practical activities on their own, based on theoretical clases.
4. Individual Tutorials: Those carried out giving individual, personalized attention with a teacher from the department. Said tutorials may be in person or online.

4.2.Learning tasks

The programme offered to the student to help them achieve their target results is made up of the following activities...

Involves the active participation of the student, in a way that the results achieved in the learning process are developed, not taking away from those already set out, the activities are the following:

- **Face-to-face generic activities:**
- **Theory Classes:** The theoretical concepts of the subject are explained and illustrative examples are developed as support to the theory when necessary.
- Practical Classes: Problems and practical cases are carried out, complementary to the theoretical concepts studied.
- **Generic non-class activities:**
 - 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 problems, etc.
 - Preparation of laboratory workshops, preparation of summaries and reports.
 - Preparation of the written tests for continuous assessment and final exams.

The subject has 6 ECTS credits, which represents 150 hours of student work in the subject during the trimester, in other words, 10 hours per week for 15 weeks of class.

A summary of a weekly timetable guide can be seen in the following table. These figures are obtained from the subject file in the Accreditation Report of the degree, taking into account the level of experimentation considered for the said subject is moderate.

Activities Hours per week: Lectures 2 / Practical 2 / Other activities 6

4.3.Syllabus

4.4.Course planning and calendar

4.5.Bibliography and recommended resources

http://biblos.unizar.es/br/br_citas.php?codigo=28624&year=2019