

Información del Plan Docente

Academic Year 2018/19

Subject 28716 - Topography

Faculty / School 175 - Escuela Universitaria Politécnica de La Almunia

Degree 423 - Bachelor's Degree in Civil Engineering

ECTS 6.0

Year 2

Semester First semester

Subject Type Compulsory

Module ---

- 1.General information
- 1.1.Aims of the course
- 1.2.Context and importance of this course in the degree
- 1.3. Recommendations to take this course
- 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 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 responsibile and the teacher. Nevertheless, it must be taken into account that, to a certain degree, students can set their learning pace base availability, following the guidelines set by the teacher.



The current subject is conceived as a stand-alone combination of contents, yet organized into three fundamental and complem theoretical concepts of each teaching unit, the solving of problems or resolution of questions and laboratory work, at the same activities

The organization of teaching will be carried out using the following steps:

— **Theory Classes**: Theoretical activities carried out mainly through exposition by the teacher, where the theoretical supdisplayed, highlighting the fundamental, structuring them in topics and or sections, interrelating them.

— **Practical Classes**: The teacher resolves practical problems or cases for demonstrative purposes. This type of teachi shown in the lectures with practical aspects.

— **Laboratory Workshop**: The lecture group is divided up into various groups, according to the number of registered st than 20 students, in order to make up smaller sized groups.

— **Individual Tutorials**: Those carried out giving individual, personalized attention with a teacher from the department. Sperson or online.

4.2.Learning tasks

The programme offered to the student to help th results is made up of the following activities...

Involves the active participation of the student, in achieved in the learning process are developed, already set out, the activities are the following:

— Face-to-face generic activities:

● **Theory Classes**: The theoretical conce explained and illustrative examples are developed when necessary.

● **Practical Classes**: Problems and prac complementary to the theoretical concepts studi

● **Laboratory Workshop**: This work is tu groups of no more than 20 students.

Programmed learning activities



— Generic non-class activities:

● Study and understanding of the theory

● Understanding and assimilation of the process in the practical classes.

● Preparation of seminars, solutions to p

● Preparation of laboratory workshops, p reports.

● Preparation of the written tests for cont exams.

The subject has 6 ECTS credits, which represer in the subject during the trimester, in other word weeks of class.

A summary of a weekly timetable guide can be some structures are obtained from the subject file of the degree, taking into account the level of extra the said subject is moderate.

Activity	Weekly school hours
Lectures	3
Laboratory Workshop	1
Other Activities	6

Nevertheless the previous table can be shown in account the following overall distribution:



— 40 hours of lectures, with 50% theoreti solving type problems.

— 10 hours of laboratory workshop, in 1 of

— 6 hours of written assessment tests, or

— 4 hours of PPT presentations.

— 90 hours of personal study, divided up 2nd semester.

There is a tutorial calendar timetable set by the requested by the students who want a tutorial.

4.3. Syllabus

The program that the student is offered to help you achieve the expected results includes the following activities Content

Topic 1: The graphic expression and Topography

Practice 1: Topographic maps, interpretation.

Item 2: Notions of geodesy: Coordinates.

Practice 2: Geodesic Network, guidance and coordinate transfer.

Practice 3: Cartographic Resources. IDEs

Practice 4: Identification of surveying equipment

Theoretical evaluation test. (Items 1 and 2)

Practice 5: Initiation parking and guidance

Item 3: Instruments and measuring elements in the surveys and stakeout.

Practices 6, 7 and 8: Handling equipment (uprising)

Item 4: Methods topographic surveys Practice 9: Digital Terrain Models I

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Item 4: Topographical Methods: Itineraries

Practice 10: Digital Terrain Models II

Item 4: Topographical Methods: altimetry

Practice 11: Digital Terrain Models III

Item 5: GNSS surveying equipment applications.

Practice 12: altimetry

Item 6: Setting out in Civil Engineering

Practice 13: Stakeout Evaluation testing practices.

4.4.Course planning and calendar

Planning & timetable

Class hall sessions & work presentations timeta



The dates of the final exams will be those that a http://www.eupla.es/secretaria/academica/exam

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The planning orientation shown below

— Week 1, 2, 3 and 4: Topic 1.

— Week 5 and 6: Topic 2.

— Week 7, 8 and 9: Topic 3.

— Week 10: Topic 4.

— Week 11: Topic 5.

— Week 11 and 12: Topic 6.

— Week 13: Topic 7.

— Week 14 and 15: Topic 8.

4.5. Bibliography and recommended resources