

28720 - Civil Engineering: Health and Safety

Syllabus Information

Academic Year: 2019/20

Subject: 28720 - Civil Engineering: Health and Safety

Faculty / School: 175 -

Degree: 423 - Bachelor's Degree in Civil Engineering

ECTS: 6.0

Year: 3

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:

Mainly in knowing and mastering the regulations on occupational health and safety applicable to construction activities. For this it is essential to know how to interpret the regulations to know the basic preventive measures to eliminate occupational risks in the works.

Once the theoretical concepts are known, students may be able to write a Health and Safety Study with minimum coherence and to be able to follow up on a basic profile.

1.2.Context and importance of this course in the degree

The subject of Occupational Health and Safety in Civil Engineering, is part of the degree in Civil Engineering taught by EUPLA, framed within the group of subjects that make up the module called Common Formation. It is a third year subject located in the fifth semester and compulsory (OB), with a teaching load of 6 ECTS credits.

The need for the subject within the curriculum of the present degree is more than justified by the need for any company that develops its activities in a work is required to comply with the preventive regulations. The technicians involved in the management of civil works, whatever their productive responsibility, are also responsible and active agents of compliance.

1.3.Recommendations to take this course

The development of the subject of Occupational Health and Safety in Civil Engineering does not require prior knowledge in the subject, although it may be important to have an idea of ??the construction processes, equipment, machinery and work media, as well as its operation .

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 achievement of the learning objectives. It is based on participation and the active role of the student favors the development of communication and decision-making skills. A wide range of teaching and learning tasks are implemented, such as lectures, guided assignments, laboratory sessions, autonomous work, and tutorials.

Students are expected to participate actively in the class throughout the semester.

Classroom materials will be available via Moodle. These include a repository of the lecture notes used in class, the course syllabus, as well as other course-specific learning materials.

4.2.Learning tasks

The course includes 6 ECTS organized according to:

- Lectures (1.5 ECTS): 37.5 hours.
- Guided assignments (1.5 ECTS): 37.5 hours.
- Autonomous work (3 ECTS): 75 hours.

Lectures: the professor will explain the theoretical contents of the course and solve illustrative applied problems. These problems and exercises can be found in the problem set provided at the beginning of the semester. Lectures run for 3 weekly hours. Although it is not a mandatory activity, regular attendance is highly recommended.

Guided assignments: students will complete assignments, problems and exercises related to concepts seen in lectures. They will be submitted at the beginning of every session to be discussed and analyzed. If assignments are submitted later, students will not be able to take the assessment test.

Autonomous work: students are expected to spend about 75 hours to study theory, solve problems, prepare lab sessions, and take exams.

Tutorials: the professor's office hours will be posted on Moodle and the degree website to assist students with questions and doubts. It is beneficial for the student to come with clear and specific questions.

4.3.Syllabus

Section 1. Health and Safety Management

- 1.- Basic concepts
2. Labour risk prevention law (RD 486/1997)
3. Construction work law (RD 1627/1997)

Section 2. Basic safety requirements

4. Collective Protection
- 5.-Personal protection equipment
6. Signalling
7. Welfare and sanitation facilities
8. First Aid

4.4.Course planning and calendar

For further details concerning the timetable, classroom and further information regarding this course please refer to the "EUPLA " website (<http://www.eupla.unizar.es>)

4.5.Bibliography and recommended resources

<http://biblioteca.unizar>. http://biblos.unizar.es/br/br_citas.php?codigo=28720&year=2019