

Academic Year/course: 2021/22

29848 - Occupational Risk Prevention Applied to Engineering

Syllabus Information

Academic Year: 2021/22

Subject: 29848 - Occupational Risk Prevention Applied to Engineering

Faculty / School: 326 - Escuela Universitaria Politécnica de Teruel

Degree: 444 - Bachelor's Degree in Electronic and Automatic Engineering

ECTS: 6.0

Year: 4

Semester: Second semester

Subject Type: Optional

Module:

1. General information

1.1. Aims of the course

2. Learning goals

3. Assessment (1st and 2nd call)

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. The learning process will be developed through the following activities: lectures, problem-solving and case studies and laboratory session.

1. In the lectures the theoretical bases will be presented, illustrated with examples. The active participation of students will be promoted.
2. In classes of problem-solving and practical cases, such problems and cases involving students, the activities will be developed both individual and group work. These cases will be discussed in order to foster the critical thinking of students.
3. Laboratory sessions, where the student will know some tools such as databases and other useful programs to carry out the tasks of integration and management of risk prevention will be developed.
4. In addition, to encourage continuous and autonomous student work, they may undertake additional activities to be performed throughout the semester learning.
6. In addition, the lecturer will propose the realization of final course work for the demonstration of the knowledge acquired by the student.
7. Personal attention to students through tutorials.
8. Any other values ??as lecturer appropriate to reinforce the teaching and learning of the subject.

4.2. Learning tasks

The course includes the following learning tasks:

1 CLASSROOM WORK: 6 ECTS

- **Lecture** (30 hours). They consist of expository sessions of theoretical and practical content of the subject.
- **Practice sessions** (16 hours).
- **Laboratory sessions** (14 hours). The student will know some tools available, such as databases and other useful

programs to carry out the tasks of integration and management of risk prevention.

2 off-site work: (88 hours)

Activities that the student will perform alone or in a workgroup and that the lecturer will propose throughout the teaching period. Activities that the student will perform alone or in groups and that the teacher will propose throughout the teaching period. In this course, each student will perform the activities and tasks proposed during the course. Student personal study of the theoretical part and realization of problems. The continuous work of the student will be encouraged by the homogeneous distribution throughout the course of several learning activities. This includes tutorials, direct student care, identification of learning problems, orientation in the subject and support to exercises and assignments.

- Assessment tests (2 hours).
In addition to the qualifying function, evaluation is also a learning tool with which the student checks the degree of understanding and assimilation reached.

4.3. Syllabus

The course will address the following topics:

- Topic 1: Introduction and regulations.
- Topic 2: Preventive specialties: Safety, Industrial Hygiene and Ergonomics and Applied Psychology.
- Topic 3: Risk Assessment. Accident prevention and occupational diseases.
- Topic 4: Managing risk prevention in industrial processes.
- Topic 5: Technical security issues
- Topic 6: Preparation of the health and safety section of an engineering project.

4.4. Course planning and calendar

Lectures and problem classes and practice sessions are held in the laboratory according to the schedule set by the center (schedules available on their website). The lecturer will inform its hours of tutoring and <https://moodle.unizar.es/add/>. The other activities will be planned depending on the number of students and will be announced in good time. It will be available on <https://moodle.unizar.es/add/>

4.5. Bibliography and recommended resources