

## 29848 - Occupational Risk Prevention Applied to Engineering

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	326 - Escuela Universitaria Politécnica de Teruel
<b>Degree</b>	444 - Bachelor's Degree in Electronic and Automatic Engineering
<b>ECTS</b>	6.0
<b>Course</b>	4
<b>Period</b>	Half-yearly
<b>Subject Type</b>	Optional
<b>Module</b>	---

### **1.Basic info**

#### **1.1.Recommendations to take this course**

#### **1.2.Activities and key dates for the course**

### **2.Initiation**

#### **2.1.Learning outcomes that define the subject**

#### **2.2.Introduction**

### **3.Context and competences**

#### **3.1.Goals**

#### **3.2.Context and meaning of the subject in the degree**

#### **3.3.Competences**

#### **3.4.Importance of learning outcomes**

### **4.Evaluation**

### **5.Activities and resources**

#### **5.1.General methodological presentation**

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

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

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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 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 a 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.

### 5.2.Learning activities

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

#### 1 CLASSROOM WORK: 6 ECTS

- **Lecture** (30 hours). They consist of expository sessions of theoretical and practical content of the subject.
- **Problem-solving classes and cases** (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 non-contact work: (88 hours)

Activities that the student will perform alone or in work group 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, as a 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.

### 5.3.Program

The contents developed are:

Chapter 1: Introduction and regulations.

Chapter 2: Preventive specialties: Safety, Industrial Hygiene and Ergonomics and Applied Psychology.

Chapter 3: Risk Assessment. Accident prevention and occupational diseases.

Chapter 4: Managing risk prevention in industrial processes.

Chapter 5: Preparation of health and safety section of an engineering project.

### 5.4.Planning and scheduling

Lectures and problem classes and practice sessions are held in the laboratory according to schedule set by the center (schedules available on their website).

The lecturer will inform its hours of tutoring.

The other activities will be planned depending on the number of students and will be announced in good time. It will be

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available on <http://moodle.unizar.es>

### 5.5. Bibliography and recommended resources

- Ley de prevención de riesgos laborales y normas de desarrollo.
- Prevención de riesgos laborales. Instrumentos de aplicación. Tirant lo Blanch, Valencia, última edición. Coord. Varios autores. Carlos L. Alfonso Mellado.
- Seguridad e Higiene en el Trabajo. Editorial Tébar, última edición. José María Cortés Díaz.