

30163 - Health and Safety

Información del Plan Docente

Academic Year	2016/17
Academic center	175 - Escuela Universitaria Politécnica de La Almunia
Degree	425 - Bachelor's Degree in Industrial Organisational Engineering
ECTS	6.0
Course	4
Period	First semester
Subject Type	Optional
Module	---

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

Presentation general methodology

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

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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 Occupational Health & Safety 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:

– **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.

– **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.

– **Laboratory Workshop** : The lecture group is divided up into various groups, according to the number of registered students, but never with more 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. Said tutorials may be in person or online.

5.2.Learning activities

Programmed learning activities

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

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studied.

● **Laboratory Workshop** : This work is tutored by a teacher, in groups of no more than 20 students.

— **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.

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

Nevertheless the previous table can be shown into greater detail, taking into account the following overall distribution:

— 60 hours of lectures, with 50% theoretical demonstration and 50% solving type problems.

— 10 hours of laboratory workshop, in 1 or 2 hour sessions.

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– 6 hours of written assessment tests, one hour per test.

– 74 hours of personal study, divided up over the 15 weeks of the 2 nd semester.

There is a tutorial calendar timetable set by the teacher that can be requested by the students who want a tutorial.

5.3.Program

contents

Contents of the essential subject for obtaining learning outcomes

Theoretical contents:

The theoretical contents of the subject are classified into two large blocks, on the one hand the security management and other conditions to meet minimum security.

1. Basic Concepts-risk prevention

2. Law on Prevention of Occupational Risks

Basic knowledge and Prevention Management

3. Prevention Services

4. Offences and risk prevention Sanciones

5. management systems health and safety. OHSAS18001

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6. Collective Protections

7.-Epis

8. Signalling

9. Workplaces

Preventive measures to be taken in certain occupational hazards

10. Working Equipment

11. Noise, Vibrations, Electrical Hazard, Manual Materials Handling

12. Chemical Agents

13. Risk jobs in offices, LDC

14. First Aid

Practical contents:

Each topic discussed in the previous section leads associated practical content, such as:

- Interpretation of the relevant rules applied to the case of companies in the industrial environment
- Analysis of situations that have created accidents
- Viewing photos and videos about unsafe working conditions
- Design applicable preventive measures in each given temastéóricos

Some of the practical content should be performed and presented in class by students individually and / or group.

5.4.Planning and scheduling

Class hall sessions & work presentations timetable

Schedule sessions and presentation of works

In the following table, the indicative schedule which includes the development of the activities presented above, may vary

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depending on the development of teaching shown.

agenda

session 1	1. Basic Concepts-risk prevention
session 2	1. Basic Concepts-risk prevention
session 3	1. Basic Concepts-risk prevention
session 4	2. Law on Prevention of Occupational Risks
session 5	2. Law on Prevention of Occupational Risks
session 6	3. Prevention Services
session 7	3. Prevention Services
session 8	4. Offences and risk prevention Sancionesen
session 9	4. Offences and risk prevention Sancionesen
session 10	5. management systems health and safety. OHSAS18001
session 11	5. management systems health and safety. OHSAS18001
session 12	Review Part
session 13	6. Collective Protections
session 14	7.-Epis
session 15	7.-Epis

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session 16	8. Signalling
session 17	9. Workplaces
session 18	9. Workplaces
session 19	10. Working Equipment
session 20	10. Working Equipment
session 21	10. Working Equipment
session 22	11. Noise, Vibrations, Electrical Hazard, Manual Materials Handling
session 23	11. Noise, Vibrations, Electrical Hazard, Manual Materials Handling
session 24	12. Chemical Agents
session 25	12. Chemical Agents
session 26	12. Chemical Agents
session 27	13. Risk jobs in offices, LDC
session 28	13. Risk jobs in offices, LDC
session 29	14. First Aid
session 30	Review Part

The dates of the final exams will be published officially in <http://www.eupla.unizar.es>

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The written assessment tests will be related to the following topics:

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— **Test 1** : Topic 1, 2, 3, 4 & 5.

— **Test 2** : Topic 6, 7, 8, 9, 10, 11, 12, 13, 14.

5.5.Bibliography and recommended resources

Resources

Materials

Material	Format
Topic theory notes	Digital/Moodle
Topic problems	E-Mail
Topic presentations	Digital/Moodle
Topic problems	E-Mail
Related links	
Educational software	Web page

Bibliography

- Cortés Díaz, José María. Técnicas de prevención de riesgos laborales : seguridad e higiene del trabajo / José María Cortés Díaz . - 9ª ed. Madrid : Tébar, 2007
- Manual para la formación en prevención de riesgos laborales : programa formativo para el desempeño de las funciones de nivel básico / autores, Ma. Teresa Díaz Aznarte [et al.] ; coordinador, José M. Viñas Armada ; director, José Vida Soria . - 5a. ed. Valladolid : Lex Nova, 2008