

28843 - Quality and Health and Safety Management

Información del Plan Docente

Academic Year	2016/17
Academic center	175 - Escuela Universitaria Politécnica de La Almunia
Degree	424 - Bachelor's Degree in Mechatronic Engineering
ECTS	4.0
Course	4
Period	Second 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

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 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.

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The current subject Quality management and risk prevention 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

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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

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 studied.

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

– **Generic non-class activities** :

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• 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 4 ECTS credits, which represents 100 hours of student work in the subject during the trimester, in other words, 10 hours per week for 10 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:

– 24 hours of lectures, with 50% theoretical demonstration and 50% solving type problems.

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

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

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

5.3.Program

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Contents

Contents of the subjects essential for achieving the learning outcomes.

The course syllabus is structured around two complementary components contents:

- Theorists.
- Practical.

Theoretical content.

The theoretical contents of the subject are classified into two large blocks, on the one hand the quality management and other security management

	Basic Concepts 1.- Quality
Part 1.	
Quality management	2. Control and quality improvement
	3. Quality Management System ISO 9001: 2008
	4. Implementation process. Certification and Audits
Part 2.	Basic Concepts 5. Security
Security Management	6. Preventive Regulations
	7. Security management. OHSAS 18001: 2007
	8. Integrated management systems: quality, safety and the environment

Practical content.

Each topic discussed in the previous section leads associated practical content.

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

5.4.Planning and scheduling

Calendar

themes	weeks
Basic Concepts 1.- Quality	1,2
2. Control and quality improvement	
3. Quality Management System ISO 9001: 2008	3,4
4. Implementation process. Certification and Audits	5
	8
Basic Concepts 5. Security	
6. Preventive Regulations	6,7
7. Security management. OHSAS 18001: 2007	8,9
	10
8. Integrated management systems: quality, safety and the environment	

The dates of the final exams will be those that are officially published at <http://www.eupla.es/secretaria/academica/examenes.html>.

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

— **Test 1** : Topic 1, 2, 3, 4 & 5.

— **Test 2** : Topic 6, 7, 8, 9 & 10.

5.5. Bibliography and recommended resources

Resources

Materials

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

Bibliography

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