

## 30168 - Standardization and Legislation Projects

### Información del Plan Docente

Academic Year	2018/19
Subject	30168 - Standardization and Legislation Projects
Faculty / School	175 - Escuela Universitaria Politécnica de La Almunia
Degree	425 - Bachelor's Degree in Industrial Organisational Engineering
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

### 1.General information

#### 1.1.Aims of the course

#### 1.2.Context and importance of this course in the degree

#### 1.3.Recommendations to take this course

### 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 organization of the actual teaching will be based on the following guidelines:

- **Theory/Practice Lectures:** 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.
- **Classroom practice work:** Theoretical discussion activities or practice work preferably performed in the classroom and requiring high student participation and a performance directed by the teacher.
- **Autonomous works:** Activity to be undertaken by the student personally. Usually done outside the classroom. Consultations in other media, application in OT-lab with the relevant software, laboratory or at home . Professor , at the request of the student , tracks the students work.

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- **Individual / group tutorials:** These are the ones done through personalized attention, individually or in groups, from the teacher in the department. They aim to help to solve the problems that students come across, following a schedule published in the Web of the EUPLA. These tutorials can be on-site or virtual (Moodle).

### 4.2.Learning tasks

#### UNIT 1/2:

- **Theoretical / practical lessons (15h):** The theoretical concepts of the subject will be explained and illustrative practical examples will be developed as support for the theory when it is deemed necessary.
- **Classroom practice (15h):** Students will, individually or in groups, perform part of the Practical Exercises and will be monitored by the teacher.

#### UNIT 3:

- **Classroom practice (30h):** It consists in making and Industrial Activity Project to legalize an industry. The classes will be practical lessons in computer room. The student will develop the project with the professor assistance.

**Study and personal work:** This off-site part is given about 90 hours of work, necessary for the study of theory, problem solving and the production of school work (Practical Exercises) valid for assessment.

**Tutorials and generic off-site activities:** Each teacher will publish a schedule of Studentservice throughout the semester.

### 4.3.Syllabus

#### • THEORETICAL CONTENTS

#### UNIT 1: Drawings and plans in projects

##### 1.1- Project DrawingStandardization

Standardization in Sketching, Dimension drawing, Threads and Sections and Representation of pieces.

##### 1.2- Standardization in metrology

Roughness and surface finish. Tolerances.

##### 1.3- Standardization in design elements

Joint Components. Bearings

##### 1.4. Set and detail view. (Content and distribution in the drawings)

Standardized elements in a set. Conventions used in a set. How to present a Set and detail view plan. Exploded View plans. Representation and distribution.

#### UNIT 2: Standardization and regulation of projects

##### 2.1 - Standardization and regulation

Organizations for Standardization. Standardized and legislative documents. Useful Standards and regulationsfor industrial projects.

##### 2.2- Introduction to CE Marking

New Approach Directives. Essential requirements. Technical documentation.

#### UNIT 3: LEGALIZATION OF AN INDUSTRIAL ACTIVITY

##### 3.1. ACTIVITY PROJECT

- Urban development constraints
- Activity classification - Environmental law.
- Other regulations

### 3.2. INDUSTRIAL REGISTER

Facilities subject to regulations:

- Electrical installations regulations.
- Fire protection facilities.
- Storage of chemical products .
- Pressure equipment regulations.
- Regulations for thermal installations in buildings.
- Safety Regulations for Refrigeration Installations

### PRACTICAL CONTENTS

#### UNIT 1.

**1.1 Sketching.** Views and sections. Metrology in laboratory

**1.2 Fittings (Tolerances).** Selecting and calculating fittings.

**1.3 Sets and Detail View.** Based on a cross-sectional view: Making plans according to current standards and a report describing the system.

#### UNIT 2.

**2. Working Regulations and legislation applicable to a project.**

Technical report about the regulations and legislation to be applied in a project/product.

#### UNIT 3.

**3. Development of an industrial activity project.**

#### 4.4.Course planning and calendar

The lectures and practical sessions in the laboratory are distributed following the schedule set up by the University, published, prior to the start date of the course, on the EUPLA website, as well as the Tutorials.

The rest of the activities (handing-in of practice tasks, presentations, etc.) will depend on the planning of the Subject and will be communicated to the students at the beginning of the year.

The weekly schedule of the subject will be published at

<http://www.eupla.unizar.es/asuntos-academicos/calendario-y-horarios>

The dates of the global evaluation test (official calls) will be published at

<http://eupla.unizar.es/asuntos-academicos/examenes>

#### 4.5.Bibliography and recommended resources