

30168 - Standardization and Legislation Projects

Información del Plan Docente

Academic Year 2017/18

Faculty / School 175 - Escuela Universitaria Politécnica de La Almunia

Degree 425 - Bachelor's Degree in Industrial Organisational Engineering

ECTS 6.0 **Year**

Semester Second semester

Subject Type Optional

Module ---

- 1.General information
- 1.1.Introduction
- 1.2. Recommendations to take this course
- 1.3. Context and importance of this course in the degree
- 1.4. Activities and key dates
- 2.Learning goals
- 2.1.Learning goals
- 2.2. Importance of learning goals
- 3. Aims of the course and competences
- 3.1. Aims of the course
- 3.2.Competences
- 4.Assessment (1st and 2nd call)
- 4.1. Assessment tasks (description of tasks, marking system and assessment criteria)
- 5.Methodology, learning tasks, syllabus and resources
- 5.1.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.



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- 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.
- 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).

5.2.Learning tasks

- Theoretical / practical lessons (30h): 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 (30h): Students will, individually or in groups, perform part of the Practical Exercises and will be monitored by the teacher.
- 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.

5.3.Syllabus

• THEORETICAL CONTENTS

UNIT 1. Drawings and plans in projects

Chapter 1- Project DrawingStandardization

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

Chapter 2- Standardization in metrology

Roughness and surface finish. Tolerances.

Chapter 3- Standardization in design elements

Joint Components. Bearings

Chapter 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- Laboratory standardization.

Chapter 5- Metrology, calibration and testing.

Introduction. Standards and Metrology Organization. Evaluation of uncertainties. Calibration Certificates.

UNIT 3- DOCUMENT ORGANIZATION IN A PROJECT.

Chapter 6-General criteria for the production of documents which make up a technical project.

Basic documents (Plans, Specificatios, Budget...). UNE 157001.

Chapter 7-Licence Processing

UNIT 4- Standardization and regulation of projects

Chapter 8- Standardization and regulation

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

Chapter 9- Introduction to CE Marking

New Approach Directives. Essential requirements. Technical documentation.

PRACTICAL CONTENTS

Practice Block 1.

1.1 Sketching. Views and sections. Metrology in laboratory



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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.

Practice Block 2.

2.1 Application in laboratory of a standard test method.

Standardization. Standard Testing Procedure. Instrument Calibration Plan. Records. Testing Setup

2.2 Production of a Specifications Document.

Based on the documentation of a project.

Practice Block 3.

3. Working Regulations and legislation applicable to a project.

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

5.4. Course planning and calendar

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The lectures and practical sessions in the laboratory are distributedfollowing 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.

5.5.Bibliography and recommended resources

THE UPDATED BIBLIOGRAPHY OF THE SUBJECT CAN BE CONSULTED THROUGH THE LIBRARY WEB PAGE http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a

ВВ	Mata, Julián. Dibujo mecánica 2 : Formación Profesional Primer Grado / Julián Mata, Claudino Alvarez, Tomás Vidondo [1a. ed., reimp.] Barcelona :
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ВВ	Ministerio de Industria. Reglamento de aparatos de elevación y manutención e
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	Ministerio de Industria y Energía.
	Ministerio de Industria Madrid : Ministerio
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ВС	Larburu Arrizabalaga, Nicolás. Maquinas
	prontuario : técnicas, máquinas,
	herramientas / Nicolás Larburu
	Arrizabalaga Madrid : Paraninfo, 1989
ВС	Martinez de Pisón, Francisco J La oficina
	técnica y los proyectos industriales /
	Francisco Javier Martínez de Pisón 1ª
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	AEIPRO. D.L. 2002

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