

## Engineering Graphics

Academic Year: ( 2018 / 2019 )

Review date: 18-05-2018

Department assigned to the subject: Mechanical Engineering Department

Coordinating teacher: ALVAREZ CALDAS, CAROLINA

Type: Basic Core ECTS Credits : 6.0

Year : 1 Semester : 2

Branch of knowledge: Engineering and Architecture

## REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Students are expected to have completed Technical Drawing in the high school  
Students will use a CAD software that is in Spanish.

## OBJECTIVES

1. Learning to read, interpret and properly develop industrial drafts.
2. Knowing the representation systems, their geometric bases and the standard symbols and conventions.
3. Learning to express graphically ideas, designs and projects in an accurate, clear, unambiguous and standardized way.
4. Learning the geometric knowledge in which industrial design and computer aided design are based.

## DESCRIPTION OF CONTENTS: PROGRAMME

1. Standardized representation systems.
  - 1.1. Orthographic projection
  - 1.2. Isometric projection
2. Representation of industrial assemblies
  - 2.1. Representation of parts
  - 2.2. Dimensioning
  - 2.3. Standardized representation of basic industrial elements
  - 2.4. Representation of industrial assemblies
3. Dimensional and geometric tolerances
4. Computer Aided Design

## LEARNING ACTIVITIES AND METHODOLOGY

Magistral lectures, exercises in classroom and / or computer room, personal work and drafts elaboration.

## ASSESSMENT SYSTEM

Continuous evaluation: 40%

Final Exam: 60%

A mark greater or equal than 2.5 (over the 6 points of the final exam) will be needed to pass the subject.

<b>% end-of-term-examination:</b>	60
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	40

## BASIC BIBLIOGRAPHY

- J. Félez y M. L. Martínez Dibujo industrial, Síntesis.
- Meneses, Álvarez, Rodríguez Introducción al Solid Edge, Paraninfo.

## ADDITIONAL BIBLIOGRAPHY

- B. Ramos Barbero y E. García Maté Dibujo Técnico, AENOR.
- C. Preciado y F.J. Moral Normalización del dibujo técnico, Ed. Donostiarra.
- F. J. Rodríguez de Abajo y R. Galarraga Normalización del dibujo industrial, Ed. Donostiarra, 1993

- Izquierdo Asensi Geometría Descriptiva, Autor.
- Varios autores Normas UNE, UNE.