28610 - Installations: the Basics

Información del Plan Docente

Academic Year	2017/18
Faculty / School	175 - Escuela Universitaria Politécnica de La Almunia
Degree	422 - Bachelor's Degree in Building Engineering
ECTS	6.0
Year	2
Semester	First semester
Subject Type	Basic Education
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 learning process designed for this subject is based on the following:
The current subject Installations: the basics 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.

28610 - Installations: the Basics

5.2.Learning tasks

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.
* Practical Classes.
- 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.

5.3.Syllabus

The program of the subject includes seven topics:

Topic 1: Principles of Thermodynamics. Thermal expansions and heat transfer (conduction, convection and radiation). Hygrometry.

Topic 2: Fluid dinamycs.

Topic 3: The electric field and direct current circuits. The magnetic field and alternating current circuits. Principles of the electromagnetic induction.

5.4.Course planning and calendar

Class hall sessions & work presentations timetable

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.
- Test 2: Topic 2.
- Test 3: Topic 3.

5.5.Bibliography and recommended resources

The updated Bibliography of the subject is consulted through the library web page:
http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a

- Tippler, Paul A.. Física/ Paul A. Tippler. 2ª edición Barcelona [etc.] : Reverté, D.L. 1990. [Volumen I]. Versión en español.
- Serway, Raymond A.. Física para ciencias e ingeniería / Raymond A. Serway, Robert J. Beichner . - 5ª ed. México [etc.] : McGraw-Hill, cop. 2002. Volumen I. Versión en español.
- Serway, Raymond A.. Física para ciencias e ingeniería / Raymond A. Serway, Robert J. Beichner . - 5ª ed. México [etc.] : McGraw-Hill, cop. 2002. Volumen II. Versión en español.
- Tipper, Paul,A.. Física/ Paul A. Tippler. 2ª edición Barcelona [etc.] : Reverté, D.L. 1990. [Volumen II]. Versión en

28610 - Installations: the Basics

español.
- Burbano de Ercilla, Santiago. Física general. Tomo 1, Estática, cinemática y dinámica / Santiago Burbano de Ercilla, Enrique Burbano García, Carlos Gracia Muñoz. - 32ª ed. Madrid : Tébar, D.L. 2006. Versión en español.

Materials

Material	Format
Topic theory notes Topic problems	Paper/repository
Topic theory notes Topic presentations Topic problems Related links	Digital/Moodle E-Mail