

29606 - Physics II

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	430 - Bachelor's Degree in Electrical Engineering
ECTS	6.0
Course	1
Period	Half-yearly
Subject Type	Basic Education
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 is based on the following:

According to the new Bologna framework, in this subject there are planned both classroom and non-attendance activities for the students. This agenda will be available to the students at the beginning of the spring semester.

The active learning methodology is applied in the course. The lecturers propose a series of in-class and out-class activities, both individual and group activities.

In most of the in-class activities, students will work in teams and cooperatively, promptly helped by the lecturer, leaving individual tasks to be carried outside the classroom.

Students will have all the training materials and support needed in the Digital Teaching Ring (ADD), loaded synchronously with the lectures and laboratory sessions.

29606 - Physics II

5.2.Learning activities

THEORETICAL ACTIVITIES

Detailed program of the unit, notes, basic bibliography, proposed exercises, etc.: All the necessary materials will be provided at the beginning of each unit.

Detailed study guide where the student can find the tasks to be carried out and their delivery deadlines.

In-class activities consist of short questions or multiple-choice about the theory. Many of these tasks are solved in cooperation with other students.

When a large group of students encounter difficulties in the study of some parts of the theory, they can be taught by the lecturer in a master class on request.

PROBLEM-SOLVING ACTIVITIES

Problem-solving sessions will be organized using cooperative learning techniques. In some cases the session will end with a brief explanation by the lecturer of key difficulties of the exercise. Out-class work include the review the exercise.

Active learning methodologies may be tested during the course both for theory and problem-solving learning.

5.3.Program

The course covers the following topics:

Part I: Electrostatics

Part II: Electric current and Magnetostatics

Part III: Maxwell ' s equations and electromagnetic waves.

5.4.Planning and scheduling

Schedule sessions and presentation of works

Classroom activities: Three hours per week in-class sessions.

29606 - Physics II

Laboratory sessions: 2 hours, one every two weeks.

They will be held according to the schedule established by the Faculty administrators and published prior to the start date of the course. All details about the organization and learning activities issues will be available on the website of the course (ADD).

5.5. Bibliography and recommended resources

Bibliography can be found in <http://psfunizar7.unizar.es/br13/eGrados.php?id=220>