

26905 - Fundamentals of Physics II

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	447 - Degree in Physics
ECTS	6.0
Course	1
Period	Second semester
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 program is organized by topic. Each of the themes is structured as follows:

Lectures: Each block consists of several lectures, in which the main topics are presented.

Applications: The Physics of each theme are applied to several cases.

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Practical sessions: Problems related to the theme topics are solved.

5.2.Learning activities

5.3.Program

1: Waves

2: Gravitational fields

3: Electric fields

4: Conductors and dielectrics

5: DC currents

6: Magnetism fields

7: Magnetism induction

8: Electromagnetic waves

9: Optics

5.4.Planning and scheduling

Organization of the sessions: Each block has different time duration. Here is presented an approximate length of each item:

Topic 1 (10 horas)

Topic 2 (6 horas)

Topic 3 (7 horas)

Topic 4 (9 horas)

Topic 5 (5 horas)

Topic 6 (8 horas)

Topic 7 (6 horas)

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Topic 8 (3 horas)

Topic 9 (6 horas)

The student work is estimated about 16 hours in total.

The exam will be taken in the dates decided by the Science Faculty.

5.5. Bibliography and recommended resources