

## 60026 - Advanced topics in physics

### Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	538 - Master's in Physics and Physical Technologies
ECTS	6.0
Course	1
Period	Second semester
Subject Type	Compulsory
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 results programmed for this course include achieving theoretical and experimental expertise in general fields of physics. In order to get these results, we have programmed activities that improve the students' active and continuous implication within the different topics. The course consists of three well-separated training activities: a programmed set of seminars on the different topics (2.4 ECTS); resolution and defense of a set of questionnaires on such topics (0.6 ECTS); and tutored study and evaluation of the personal work of intensification in a subject in connexion with the seminars (3 ECTS).

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### 5.2. Learning activities

- A program of seminars with a total duration of about 60h
- Resolution by the student of a set of given questionnaires and defense of the responses.
- Student's personal guided work.

### 5.3. Program

- Frontiers in particle and cosmic physics
- Physics of novel materials
- Large scientific installations in physics
- Physical technologies for renewable energy sources
- Topics in biological physics
- Computation, networks and physics

### 5.4. Planning and scheduling

Final calendar has to be set. It will be announced well in advance.

### 5.5. Bibliography and recommended resources