

## 60028 - Relativistic Astrophysics, Astroparticles and Cosmology

### Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	538 - Master's in Physics and Physical Technologies
ECTS	5.0
Course	1
Period	First semester
Subject Type	Optional
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

This course focuses primarily on applications, and therefore puts special importance to learning through practical cases. The introduction of the contents related to such applications and the analysis of the cases will occupy 4 ECTS. Linking this subject with the industrial reality it will be implemented in 1 ECTS dedicated to participatory seminars that will include talks with guests to the course.

#### 5.2. Learning activities

The program offered includes the following activities:

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- Participatory lectures and case study analysis (4 ECTS).
- Participatory seminars dedicated to different industrial activities (1 ECTS).

### **5.3.Program**

1. Vacuum deposition.Application areas.
2. Optical coating in architecture.
3. Physics in the thermo-solar and photovoltaic industry.
4. Optical instrumentation and measurement industry. Regulations.

### **5.4.Planning and scheduling**

Final calendar will be given in advance.

### **5.5.Bibliography and recomended resources**