**ANEXO II: FICHA de la asignatura**

**TITLE: EXPERIMENTAL PHYSICS ..... Tutor: Dr. Juan L. Aguado**
**ECTS: 6 Semester A + B (full year)**

## Description

This English module for Physics explores the practical demonstration of several phenomena. Experimental classes on our laboratory will lead us to verify interesting laws of mechanics, fluids, waves, thermodynamics, electromagnetic field, radioactivity, etc.

## Aims

The aim of this module is to provide the student with the basic tools of scientific methodology to explore Physics laws.

## Learning outcomes

By the end of the module students should be able to:

- Analyze physical data
- Calculate phenomenological laws
- Demonstrate physical laws
- Evaluate uncertainties for physical measurements
- Understand the parameters that rules physical measurements

## Syllabus indicative content

- Laboratory measurements
- Uncertainty calculations
- Law demonstration

## Assessment

Reports (weighting): 50%; Exam (weighting) 40%
Participation (weighting) 10%

## Reading list

- Sears and Zemansky's University Physics (10th Edition) (Hardcover)
- Physics for Scientists and Engineers by Paul A. Tipler and Gene Mosca (Hardcover)
- Physics for Scientists and Engineers, Chapters 1-39 by Raymond A. Serway and John W. Jewett (Hardcover)