

## 66117 - Internships

### Información del Plan Docente

**Academic Year** 2017/18

**Faculty / School**

**Degree**

**ECTS** 5.0

**Year** ---

**Semester** Annual

**Subject Type**

**Module** ---

### **1.General information**

#### **1.1.Introduction**

The students will work in a project developed in a nanotechnology related company.

#### **1.2.Recommendations to take this course**

This is an optional module equivalent to 5 ECTS credits or 125 student work hours. The written report of this module will be in English, therefore students must have an upper-intermediate level in the language.

#### **1.3.Context and importance of this course in the degree**

This module represents a practical application of the other modules in the course to a real problem where the student will face his/her daily work in a company. To achieve the above, the student will make use of the theoretical knowledge, attitudes, aptitudes and skills acquired over the six core modules of the course and the other optional module.

#### **1.4.Activities and key dates**

This is a year-long module although doing it in the second semester when the student has a better knowledge of Nanoscience is advisable.

### **2.Learning goals**

#### **2.1.Learning goals**

The student, in order to pass the course, will have to show her/his competence in the following skills:

- Are able to develop an experimental project with significant levels of independence and originality.
  
- Know how to apply the theoretical knowledge to the specific problems they will encounter in their daily work at the company.
  
- Have good oral and written communication skills.

### 2.2.Importance of learning goals

Through this highly specialised module, the students will be able to apply their knowledge of the topic to be developed into a project in the framework of a real application in a Nanotechnology-related company, gaining abilities that will be of service in their immediate professional future.

### 3.Aims of the course and competences

#### 3.1.Aims of the course

This module allows students to gain a very high level of specialisation in the topic area of the work developed at the company, and students will become aware of the real applications of nanoscience and nanotechnology at an industrial level.

#### 3.2.Competences

After completing the course, the student will be competent in the following skills:

Abilities for independent study and self-teaching required to undertake the research or professional activity in the near future

General abilities for good professional practice

Assess the true difficulties that come with application of Nanoscience and Nanotechnology to a market product

Face unexpected problems with the right methods

Demonstrate oral and written communication skills

### 4.Assessment (1st and 2nd call)

#### 4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

The student will present a written report with a maximum of 10 pages (Times New Roman 12, spacing 1.5) that brings together the project undertaken. This report should have the previous approval from the student tutor at the company and the academic student tutor. The report will be assessed by a committee of three members (score between 1 and 10). In addition to the written report, a public presentation of the work will be made in front of a board of three examiners. If required by the company these examiners will sign a non-disclosure agreement (NDA). The presentation will last a maximum of 15 minutes and will be followed by a debate. The final mark will take into account the report of the company about the student work and its particular contribution to the project, the quality of the written report, its oral presentation and defence.

### 5.Methodology, learning tasks, syllabus and resources

#### 5.1.Methodological overview

The project will be directed and supervised by an expert at the company and also by an academic tutor.

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### **5.2.Learning tasks**

The programme offered to the students to help them achieve the learning results includes the following activities :

Highly personalised tutoring which: i) favours an increase in the student's autonomous work, ii) encourages students to give their own ideas and to participate in all stages of the project (planning, undertaking experiments, interpretation of results and circulation).

### **5.3.Syllabus**

#### **5.4.Course planning and calendar**

Calendar of actual sessions and presentation of works

The precise dates and timetable will be discussed with the student directly by the academic and industrial tutors. The academic tutor will make sure that the calendar in the company is compatible with the rest of the student academic activities involved in this Master.

#### **5.5.Bibliography and recommended resources**