

## 60065 - Interactions of nanomaterials with biological systems

### Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	544 - Master's in Environmental Nanotechnology
ECTS	6.0
Course	1
Period	Annual
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

#### 5.2.Learning activities

#### 5.3.Program

#### Program

1.1 Environmental toxicology a multidisciplinary science

## **60065 - Interactions of nanomaterials with biological systems**

1.2 Practical considerations for toxicology and ecotoxicology of nanomaterials

1.3 Bioaccumulation, biotransformation, biodegradation, toxic actions.

1.4 Interactions of nanomaterials with biomolecules

1.5 Biological factors that modify the toxicity of nanomaterials

1.6 Environmental factors that modify the toxicity of nanomaterials

1.7 The case of metallic nanomaterials "biotic ligand model"

1.8 Toxicity of mixtures: Synergistic effects

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

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