

## SYLLABUS

### 1. COURSE DESCRIPTION

<b>Degree:</b>	Environmental Sciences	
<b>Course:</b>	Flora and Vegetation	
<b>Module:</b>	Flora and Vegetation	
<b>Department:</b>	Molecular Biology and Biochemical Engineering	
<b>Academic Year:</b>	2017-18	
<b>Term:</b>	Second	
<b>ECTS credits:</b>	6	
<b>Year:</b>	2 <sup>nd</sup> year	
<b>Type:</b>	Basic	
<b>Language:</b>	Spanish	
<b>Course Model:</b>	B1	
<b>a. Basic learning (EB):</b>		<b>60%</b>
<b>b. Practical learning (EPD):</b>		<b>40%</b>

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### 2. LECTURER

<b>Coordinator</b>	
<b>Name:</b>	<b>Modesto Luceño Garcés</b>
<b>School:</b>	<b>School of Experimental Sciences</b>
<b>Department:</b>	<b>Molecular Biology and Biochemical Engineering</b>
<b>Area:</b>	<b>Botanics</b>
<b>Office Hours:</b>	<b>Ask previously</b>
<b>Office:</b>	<b>22B14</b>
<b>E-mail:</b>	<b>mlucgar@upo.es</b>
<b>Phone:</b>	<b>618459240</b>

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### 3. UBICACIÓN EN EL PLAN FORMATIVO

#### **BASIC LEARNING (EB):**

#### TOPIC I. FUNGI, ALGAE AND PLANT DIVERSITY

Unit 1. Plants nomenclature and classification.

Unit 2. Plant evolution: Darwin's Theory of Evolution.

Unit 3. Fungi: Morphology, reproduction and main groups.

Unit 4. Cyanobacteria, euglenoidea, dinoflagellata and diatomea: morphological and ecological characteristics.

Unit 5. Brown algae and red: morphological and ecological characteristics. Classification.

Unit 6. Green algae, zygnematophyceae and charophyta: morphological and ecological characteristics. Classification.

Unit 7. First terrestrial plants. Morphology and reproduction of hepaticophyta, mosses and hornworts.

Unit 8. Vascular plants: general characteristics.

Tema 9. Vascular plants. II. Spermatophyta: general characteristics.

Tema 10. Vascular plants. III. Magnoliopsida or angiospermae.

Tema 11. Angiospermae primitive lineage.

Tema 12. Monocotyledoneae I.

Tema 13. Monocotyledoneae II.

Tema 14. Clade of Eudicots I.

Tema 15. Clade of Eudicots II.

Tema 16. Clade of Eudicots III.

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Tema 17. Clade of Eudicots IV.

Tema 18. Clade of Eudicots V.

Tema 19. Clade of Eudicots VI.

### TOPIC II. VEGETATION

Unit 20. Landscape and vegetation.

Unit 21. Vegetation distribution.

Unit 22. Vegetation of the Iberian Peninsula I.

Tema 23. Vegetation of the Iberian Peninsula II.

Tema 24. Special formations.

### **PRACTICAL LEARNING (EPD):**

1. Field practice: Excursion to Gredos i order to identify the diversity of plants and different vegetal formations (3 days).
2. Laboratory practice:
  - a) Family identification.
  - b) Genre and species identification.