



**SYLLABUS**  
ACADEMIC YEAR 2017-18

**1. COURSE DESCRIPTION**

<b>Degree:</b>	<b>Environmental Sciences</b>
<b>Course:</b>	<b>Plant Resources Management, Conservation and...</b>
<b>Department:</b>	<b>Environment Management, Quality, Conservation and Planning</b>
<b>Department:</b>	<b>Molecular Biology and Chemical Engineering</b>
<b>Academic Year:</b>	<b>2017-18</b>
<b>Term:</b>	<b>First Semester</b>
<b>ECTS credits:</b>	<b>4,5</b>
<b>Year:</b>	<b>3<sup>rd</sup> year</b>
<b>Type:</b>	<b>Compulsory</b>
<b>Language:</b>	<b>Spanish</b>

<b>Course Model:</b>	<b>B1</b>
<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>Santiago Martín Bravo</b>
<b>School:</b>	<b>School of Experimental Sciences</b>
<b>Department:</b>	<b>Molecular Biology and Chemical Engineering</b>
<b>Area:</b>	<b>Botanics</b>
<b>Office Hours:</b>	<b>Mondays and Tuesdays from 11.30 to 13.30, Fridays from 10.00 to 12.00</b>
<b>Office:</b>	<b>22-0-12</b>
<b>E-mail:</b>	<b>smarbra@upo.es</b>
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### **3. TOPICS**

#### **BASIC LEARNING**

**TOPIC I.** Introduction and concepts.

**Unit 1.** Concepts in biodiversity: taxonomic, ecological and genetic diversity.

**Unit 2** Biogeography and speciation.

**TOPIC II.** Threats and extinction in plant species.

**Unit 3.** Main causes of threat and extinction in plant species.

**TOPIC III.** Methodology in conservation studies of threatened species.

**Unit 4.** Red Lists and threat categories.

**Unit 5.** Corology and population censuses.

**Unit 6.** Demography and dynamics of plant populations.

**Unit 7.** Reproductive biology. Main types of reproduction systems.

Implications for genetic diversity.

**Unit 8.** Molecular studies of genetic diversity (Genetics of conservation).

**Unit 9.** Main management measures for the conservation of threatened plant species.

**TOPIC IV.** Exploitation of plant resources.

**Unit 10.** The plants that we eat.

**Unit 11.** Exploitation of fungi.

**Unit 12.** Medicinal and aromatic plants.

**Unit 13.** Forest resources.

#### **PRACTICAL LEARNING**

##### **Cabinet practice:**

Practice 1.- Red Lists, threat categories and criteria of the IUCN.

Practice 2.- Resolution of demographic monitoring exercises and genetic diversity evaluation.

Practice 3.- Identification of edible fungi (Laboratory).

**Field practice:** Excursion to the Botanical Garden of Cordoba.