

**Vegetation Analysis**

Code: 100831  
ECTS Credits: 6

Degree	Type	Year	Semester
2500251 Environmental Biology	OB	3	2

**Contact**

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**Use of languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

**Teachers**

Ramon Pérez Obiol  
Miquel Ninyerola Casals

**Prerequisites**

Despite the lack of official prerequisites, it is very convenient to have approved Prospecting for the Natural Environment, Botany, Ecology, Analysis of Environmental Mapping, Physical Environment and Biostatistics before taking this course.

**Objectives and Contextualisation**

The objective is to provide basic knowledge and methodological tools that allow students to recognize the main vegetal formations of our geographical region, as well as interpret the main processes that determine their structure and dynamics both locally and at regional level, and across different time scales.

**Content**

Part I. Regional analysis of vegetation

1. Basic concepts of vegetation biogeography
2. Dynamics of vegetation
3. Characteristics of the physical environment and the vegetation in the Iberian Peninsula
4. The vegetation of the Mediterranean basin
5. The vegetation of Europe
6. The great Biomes
8. Indicators of the evolution of the landscape

9. Climate dynamics and history of vegetation

Part II. Patterns and local dynamics of vegetation

10. Biological typologies of plants

11. Plant functional traits and functional diversity

12. Species composition: quantitative methods of vegetation analysis

13. Spatial distribution of communities: analysis of gradients

14. Species pool, dispersion and establishment

15. Plant community assembly and species coexistence

16. Plant succession and disturbance regime

17. Vegetation dynamics models