

## **Plant Physiology**

Code: 100823 ECTS Credits: 6

Degree	Туре	Year	Semester
2500251 Environmental Biology	OB	2	1

### Contact

### Use of languages

2018/2019

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 Some groups entirely in English: No

 Some groups entirely in Catalan: Yes
 Some groups entirely in Spanish: No

## Prerequisites

None

### **Objectives and Contextualisation**

Vegetal Physiology is the first subject of a set of 3 that form the matter of Plant Physiology. It is compulsory and is attended in the first semester of the second year.

The training objective of this subject is focused on the acquisition of competences within the framework of the theoretical and practical training of the student.

Vegetal Physiology has as its training objectives the acquisition of knowledge of the different levels of organization of the organisms in its operation

# Content

Master classes:

Concept and sources of information Cellular wall Water and nutrition relations Absorption and transport mechanisms Reduction and assimilation of C, N and S Metabolism C3, C4 and CAM. Mechanisms of regulation of growth. Phytohormones Sensing systems Regulation of development phases (germination, flowering, fruition, senescence)

Laboratory:

Determination of the water potential in vegetables. Study of the Hill reaction in isolated chloroplasts and their inhibition by DCMU. Measurement of the osmotic potential by the incipient plasmolysis method. Bioassay of cytokinin in barley leaf segments (Hordeum vulgare). Determination of nitrate content in vegetables