

University of Oum El Bouaghi

Faculty of exact sciences and natural and life sciences

Department of nature and life sciences

Program name: Bachelor's degree in Plant Biotechnology

- **Level: Bachelor**
- **Domain: Biology**
- **Field: Biotechnology**
- **Specialty: Plant Biotechnology**

1. Program Description:

This training aims to acquire the basic concepts and techniques used in the field of plant biology, in order to preserve species and increase the production of crops of economic interest (food, industrial, pharmaceutical and ornamental, etc.)

Students will receive fundamental knowledge of different disciplines (plant biology, plant propagation techniques, crop alteragenic and pathogenic factors and control methods used to combat pathogens).

We plan to contribute in this way to the training of graduates with proven skills for the region of Oum El Bouaghi, which has an agro-pastoral vocation.

2. Entry Requirements

The programme aims to provide candidates with fundamental and applied inter-disciplinary knowledge, practical and analytical skills, and critical thinking in biotechnology, as well as the ability to adapt to the rapid advancements in this field and its related fields such as policies, regulations, business, legal, ethics and the socioeconomic aspects. The candidates should be able to develop the capacity to pursue lifelong learning, to undertake research, to demonstrate professionalism and explore entrepreneurial opportunities from the programme. Candidates should be able to work cooperatively with minimal guidance to comprehend a given project, lead and conduct research as well as analyse, report and communicate the outcomes, thus contributing to the current needs and future developments in the industry.

3. Program Units and modules

Semester 5

Fundamental Teaching Unit 1: Physiology and plant propagation

Matter: Plant physiology

Matter 2: Multiplication vegetative and biotechnology

Fundamental Teaching Unit 2:

Matter 1: Instruments and biology methods and laboratory safety

Matter 2: Biostatistics

Discovery Teaching Unit:

Matter 1: Genetic bases of biodiversity

Transversal Teaching Unit:

Matter 1: Scientific English

Semester 6

Fundamental Teaching Unit 1:

Matter 1: Limiting factors in vegetable production

Matter 2: Biodiversity and plant breeding

Fundamental Teaching Unit 2:

Matter 1: Biology molecular plant

Matter 2: Means of struggle

Discovery Teaching Unit:

Matter 1: Bioinformatics

4. Other

The training path will include:

- Basic training during the first two years (L1 and L2)
- A one-year specialization (L3) will include:
 - Additional theoretical and practical training

- Specific laboratory training to acquire mastery of a particular technology.

- Monitoring indicators are numerous. The most direct are :

- continuous monitoring.

- Personal work.

- Presentations.

