



Popular Democratic of Algeria

Ministry of Higher Education and Scientific Research



Abbes Laghrour University Khenchela

Studies identity sheet

Domain: Nature and Life Sciences

Field: Agronomic sciences

Speciality: Plant Production

Cycle: Bachelor

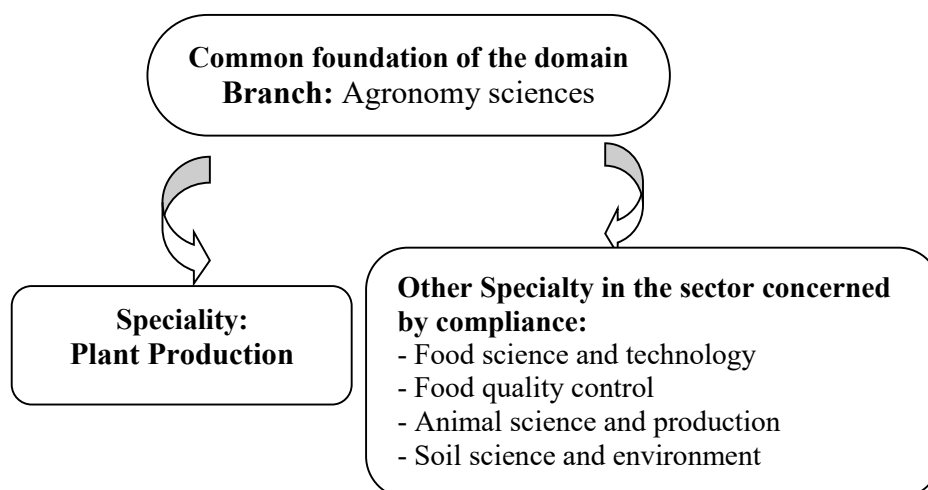
Type: Academic

Attachment structure: (Faculty of Nature and Life Science / Department: Agronomy)

1. Context

The new training system which is the LMD, remains an issue of providing managers capable of better adapting to the current conditions of this strategic sector. This training of LMD plant productions will allow future executives to acquire basic notions and know-how as well as the application of new and evolving techniques resulting in a better mastery of the various factors for the intensification and improvement of plant productions.

2. Conditions of access



3. Objectives

Currently, the plant production of farms and production units remains more or less uncertain, with yields below the physiological and biological capacities of the cultivated species.

The academic bachelor Plant Production aims to:

- Provide basic training to students enabling them to pursue Master's and possibly Doctorate studies.
- Provide scientific and operational elements to train graduates capable of managing and understanding the problems of production and crop improvement.

4. Profiles and skills targeted

Production units, farms and experimental institutes in specialties: arable crops, perennial crops and market garden crops suffer from a shortage of managers who can meet their objectives and national objectives such as improving plant production and seeds through the use of new techniques.

The trained executives can continue their academic courses or choose a possible “Professional” training.

The profile targeted by this course must allow the students concerned to be able to:

- Diagnose and identify problems related to crop production and improvement;
- Analyze the causes and assess the consequences related to these problems;
- Design solutions that are technically satisfactory, economical, and respectful of the environment and health;
- Take charge of different functions within the services (public, cooperative or private sector) having a relationship with crop production.

5. Regional and national employability potential

Graduates of the plant production specialty can perform various activities, they will work mainly in:

- Technical and university education after training for a master's degree and doctorate.
- Department of Agricultural Services (DSA).
- National and regional services and stations for the development and improvement of crop production (ITCMI, ITAF and ITGC).
- Various agricultural professional organizations (chambers of agriculture, cooperatives, technical institutes).
- Food industry.

6. Gateways to other specialties

The possible gateways to other specialties are:

- Arboriculture and viticulture;
- field crops;
- Plant protection;
- Plant Ecology.

7. Training Partners

Other partner establishments:

- University of Oum Elbaoughi (Faculty of natural and life sciences).
- University of Tébessa (Faculty of natural and life sciences).

Companies and other socio-economic partners:

- The Directorate of Agricultural Services (D.S.A) at the level of the province of Khenchela (reception of student trainees, co-supervision, installation of trials at the level of pilot farms, supply of “sample” biological material).
- Regional station of the national institute of agronomic research (INRA) of Sétif.
- Technical Institute of Field Crops (ITGC) El-khroub province of Constantine and ITCMI province of Oum El-Bouaghi.
- Plant protection laboratories (INPV).
- Conservation of forests in the province of Khenchela (field trips, practical training and co-supervision).

8. Semester organization of lessons (one table per semester)

Common core field “Nature and Life sciences”

• Semester 1

Teaching Units	Subjects	Credit	Coefficient	Study hours per week			14-16 weeks	Other*
				Courses	Tutorials	Practical courses		
Fundamental U	General and organic chemistry	6	3	1h30	1h30	1h30	67h30	82h30
	Cellular biology	8	4	1h30	1h30	3h00	90h00	110h00
	Mathematics-Statistics	4	2	1h30	1h30	-	45h00	55h00
Methodology U	Geology	5	3	1h30	1h30	1h00	60h00	65h00
	Communication and Expression Techniques 1 (en français)	4	2	1h30	1h30	-	45h00	55h00
Discovery U	Terminology and methodology 1	2	2	1h30	1h30		45h00	5h00
Transversal U	Universal History of Biological Sciences	1	1	1h30	-	-	22h30	2h30
Total Semester 1		30	17	10h30	9h00	5h30	375h00	375h00

Other* : Complementary work in semi-annual consultation

- Semester 2

Teaching Units	Subjects	Credit	Coefficient	Study hours per week			14-16 weeks	Other*
				Courses	Tutorials	Practical courses		
Fundamental U	Thermodynamics and solution chemistry	6	3	1h30	1h30	1h30	67h30	82h30
	Plant biology	6	3	1h30	-	3h00	67h30	82h30
	Animal biology	6	3	1h30	-	3h00	67h30	82h30
Methodology U	Physics	5	3	1h30	1h30	1h00	60h00	65h00
	Communication and Expression Techniques 2 (en anglais)	4	2	1h30	1h30	-	45h00	55h00
Discovery U	Life sciences and socio-economic impacts	2	2	1h30	1h30	-	45h00	5h00
Transversal U	Terminology and methodology 2	1	1	1h30	-	-	22h30	2h30
Total Semester 2		30	17	10h30	6h00	8h30	375h00	375h00

Other* : Complementary work in semi-annual consultation

**Appendix to the teaching program for the second year of the bachelor's degree
Natural and Life Sciences Speciality “Agronomy Sciences”**

• **Semester 3**

Teaching Units	Subjects	Credit	Coefficient	Study hours per week			14-16 weeks	Other*
				Courses	Tutorials	Practical courses		
Fundamental U	Zoology	4	2	1h30	-	1h30	45h00	55h00
	Animal Physiology	2	1	1h30	-	-	22h30	27h30
Fundamental U	Biochemistry	6	3	3h00	1h30	-	67h30	82h30
	Genetics	6	3	3h00	1h30	-	67h30	82h30
Methodology U	Communication and Expression Techniques (en anglais)	4	2	1h30	1h30	-	45h00	55h00
Methodology U	Biophysics	5	3	1h30	1h30	1h00	60h00	65h00
Discovery U	Environment and sustainable Development	2	2	1h30	1h30	-	45h00	5h00
Transversal U	Ethics and academic Deontology	1	1	1h30	-	-	22h30	2h30
Total Semester 3		30	17	15h00	7h30	2h30	375h00	375h00

Other* : Complementary work in semi-annual consultation

- Semester 4

Teaching Units	Subjects	Credit	Coefficient	Study hours per week			14-16 weeks	Other*
				Courses	Tutorials	Practical courses		
Fundamental U	Agronomy I	4	2	1h30	1h30	-	45h00	55h00
	Agronomy II	4	2	1h30	1h30	-	45h00	55h00
Fundamental U	Microbiology	6	3	1h30	1h30	1h30	67h30	82h30
	Botanics	4	2	1h30	-	1h30	45h00	55h00
Methodology U	Plant Physiology	4	2	1h30	-	1h30	45h00	55h00
Methodology U	Biostatistics	5	3	1h30	1h30	1h00	60h00	65h00
Discovery U	General ecology	2	2	1h30	1h30	-	45h00	5h00
Transversal U	Computer tools	1	1	1h30	-	-	22h30	2h30
Total Semester 4		30	17	12h00	7h30	5h30	375h00	375h00

Other* : Complementary work in semi-annual consultation

- Semester 5

Teaching Units	14-16 weeks	Study hours per week				Coeff	Credit
		Courses	Tutorials	Practical courses	Other*		
Fundamental U							
Subject 1 : Agropedology and fertilization	45h00	1h30	1h30	-	55h00	2	4
Subject 2 : Irrigation and drainage	45h00	1h30	1h30	-	55h00	2	4
Subject 1 : Genetic improvement of plants	67h30	1h30	1h30	1h30	82h30	3	6
Subject 2 : Seedling and seed Production	45h00	1h30	-	1h30	55h00	2	4
Methodology U							
Subject 1 : Plant protection 1	37h30	1h30	-	1h	25h00	2	4
Subject 2 : Agricultural machinery	45h00	1h30	-	1h30	35h00	2	4
Subject 3 : Molecular biology	22h30	1h30	-	-	22h30	1	1
Discovery U							
Subject 1 : Bioclimatology	45h00	1h30	1h30	-	30h00	2	2
Transversal U							
Subject 1 : Scientific English	22h30	1h30	-	-	15h00	1	1
Total Semester 5	375h	13h30	06h00	05h30	375h	17	30

Other* : Complementary work in semi-annual consultation

• **Semester 6**

Teaching Units	14-16 weeks	Study hours per week				Coeff	Credit
		Courses	Tutorials	Practical Courses	Other*		
Fundamental U							
Subject 1 : Field crops	67h30	1h30	1h30	1h30	82h30	3	6
Subject 2 : Perennial crops	67h30	1h30	1h30	1h30	82h30	3	6
Subject 3 : Vegetable crops	67h30	1h30	1h30	1h30	82h30	3	6
Methodology U							
Subject 1 : Bioinformatics	45h00	1h30	-	1h30	30h00	2	4
Subject 2 : Plant protection 2	60h00	1h30	1h30	1h	45h00	3	5
Discovery U							
Subject 1 : Agronomic experimentation	45h00	1h30	1h30	-	30h00	2	2
Transversal U							
Subject 1 : Literature review	22h30	1h30	-	-	22h30	1	1
Total Semester 6	375h	10h30	7h30	7h00	375h	17	30

Other* : Complementary work in semi-annual consultation

9. Evaluation method

Semester 1: CA Continuous Assessment Mark (40%) and Final Exam Mark (60%) for all subjects.

Semester 2: CA Continuous Assessment Mark (40%) and Final Exam Mark (60%) for all subjects except the Terminology and methodology 2 subject 100% final exam assessment mode.

Semester 3: CA continuous assessment mark (40%) and final examination mark (60%) for all subjects except the two subjects Ethics and University Deontology and Animal Physiology the 100% final examination assessment method.

Semester 4: CA Continuous Assessment Mark (40%) and Final Exam Mark (60%) for all subjects except Computer Tools the 100% final exam assessment mode.

Semester 5: CA Continuous Assessment Mark (40%) and Final Exam Mark (60%) for all subjects.

Semester 6: CA Continuous Assessment Mark (40%) and Final Exam Mark (60%) for all subjects.