Popular Democratic of Algeria

Ministry of Higher Education and Scientific Research

Abbes Laghrour University Khenchela

Studies identity sheet

Domain : Natural and Life Sciences

Field : Agronomic Sciences

Speciality : Plant Production

Cycle: Master

Type: Academic

Attachment structure: (Faculty of NLS/Department Agricultural sciences)

1. Context

2. Conditions of access

Access to the 1st year of the master (M1)

Hold a Bachelor's degree in biology, Agronomic Sciences, Plant Production, or Plant Breeding from Algerian universities or recognized foreign equivalent qualification.

Access to the 2nd year of the master (M2)

Hold an M1 master's degree in plant and/or agronomic sciences from Algerian universities or recognized foreign equivalent qualification. Thus the candidates (whose number does not exceed 20) are not obliged to follow the first year in our university but they must have equivalence in the specialty.

3. Objectives

The Academic Master in Plant Production aims to:

Provide basic training to students enabling them to pursue doctoral studies.

Bring the scientific and operational elements allowing training students able to analyze a complex situation, define a context in order to identify the objectives of the study and/or the project, and also to participate in actions of scientific animation and technological education.

4. Profiles and skills targeted

The Plant Production Master is built in such way as to allow the student to develop his skills and knowledge acquired in the bachelor's degree, in the field of plants.

The mix of contributors (academic and professional), company visits and contact with researchers involved in the dynamics of plant research aim to train future competent plant executives in order to facilitate the proper exploitation and development of the results of the research.

5. Regional and national employability potential

Possibility of opening up to the various agricultural sectors, development and agronomic research institutes at the regional level: University, development companies, etc.

At national level: university and research centers, National institute of Agronomic research of Algeria (NIARA), Technical Institute of Field Crops (TIFC), Technical Institute for the Development of Saharan Agronomy (TIDSA), Centre for Scientific and Technical Research on Arid Regions (C.R.S.T.R.A), …

Possibility of establishing partnership relations between the university and socio-economic partners in the agricultural and para-agricultural sector in order to satisfy a need and a necessary demand (Cosider-Agro).

6. Gateways to other specialties

The first year of this master is made up of an upgrade and a gateway to other specialties such as:

- Plant breeding
- Agronomic Sciences
- Genomics and plant production
- plant biotechnology

7. Training Partners

Other academic institutions

- Constantine I University (Faculty of Natural and Life Sciences)
- Superior Normal School of Constantine

Companies and other socio-economic partners

- Agro Development Company Setif (SAGRODEV Sétif)
- LACIP Group Laboratory Ain M'lila
- TIFC Khroub
- Conservation of forests in the province of Khenchela (field trips, practical training and co-supervision)
- The direction of agricultural services (D.A.S) in the province of khenchela (reception of student trainees, co-supervision, installation of trials in the pilot farms, supply of biological material "sample")
- Public and private quality control laboratories (co-supervision, practical training)

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

1st Semester :

Teaching units	SAHV	*Study hours per week*			
	14-16 Weeks	courses	tutorials	practicum	other
Fundamental U					
FU1					
Nutrition and metabolic response to abiotic stresses	67h30	1h30	1h30	1h30	82h30
Pathogenic bio aggressors	67h30	1h30	1h30	1h30	82h30
FU2					
Plant functional genomics and transgenesis	67h30	1h30	1h30	1h30	82h30
Methodology U					
MU1					
Bio-statistics	60 h	1h30	1h30	1h	65h
Plant production	45 h	1h30	1h30	/	55h
Discovery U					
DU1					
Knowledge of Company and economics	45 h	1h30	/	1h30	50h
Transversal U					
TU1					
Communication	22 h30	1h30	/	/	2h30
Total Semester1	**375h**				**375h**

2nd Semester:

Teaching units	SAHV	*Studyhours per week*			
	14-16 Weeks	courses	tutorials	practicum	other
Fundamental U					
FU1					
Adaptation to the environment and secondary metabolism	67h30	1h30	1h30	1h30	82h30
Industrial use of plant production	45h	1h30	/	1h30	55h
FU2					
Regulation of the Development of cultivated plants	45h	1h30	1h30	/	55h
Interaction host symbionts, host parasites	45h	1h30	/	1h30	55h
Methodology U					
MU1					
Seed production	60h	1h30	1h30	1h	65h
Methodology for scientific writing	45h	1h30	/	1h30	55h
Discovery U					
DU1					
Practical training in plant production	45h	1h30	/	1h30	05h

Transversal U					
TU1					
Legislation	22h30	1h30	/	/	2h30
Total Semester2	**375h**				**375h**

3rd Semester

Teaching units	SAHV	*Studyhours per week*			
	14-16 Weeks	**courses**	**tutorials**	**practicum**	**other**
Fundamental U					
FU1					
Eco-physiology and application to the control of the production of cultivated plants	67h30	1h30	1h30	1h30	82h30
Food and non-food recovery of plant products	67h30	1h30	1h30	1h30	82h30
FU2					
Cropping systems	67h30	1h30	1h30	1h30	82h30
Methodology U					
MU1					
Bioinformatics	60h	1h30	1h30	01h	65h
Approaches and project management	45h	1h30	/	1h30	65h
Discovery U					
DU1					
GIS and cartography	45h	1h30	/	1h30	05h
Transversal U					
TU1					
Entrepreneurship	22h30	1h30			2h30
Total Semester3	**375h**				**375h**

4th Semester :

Internship in a company sanctioned by a dissertation and a defence.

	SAHV
Personal work	300h
Company internship	75h
Seminars	-
Other (specify)	-
Total Semester 4	**375h**

9- Evaluation method

1st Semestre

Teaching units	Coeff	Credits	Evaluation Mode	
			Continued	Exam
Fundamental U				
FU1				
Nutrition and metabolic response to abiotic stresses	03	06	40%	60%
Pathogenic bio aggressors	03	06	40%	60%
FU2				
Plant functional genomics and transgenesis	03	06	40%	60%
Methodology U				
MU1				
Bio-statistics	03	05	40%	60%
Plant production	02	04	33%	67%
Discovery U				
DU1				
Knowledge of Company and economics	02	02	33%	67%
Transversal U				
TU1				
Communication	01	01	25%	75%
Total Semester1	**17**	**30**		

2nd Semester

Teachingunits	Coeff	Credits	EvaluationMode	
			Continued	Exam
Fundamental U				
FU1				
Adaptation to the environment and secondary metabolism	03	06	40%	60%
Industrial use of plant production	02	04	33%	67%
FU2				
Regulation of the Development of cultivated plants	02	04	33%	67%
Interaction host symbionts, host parasites	02	04	33%	67%
MethodologyU				
MU1				
Seed production	03	05	40%	60%
Methodology for scientific writing	02	04	33%	67%
Discovery U				
DU1				
Practical training in plant production	02	02	33%	67%
Transversal U				
TU1				
Legislation	01	01	25%	75%
Total Semester2	**17**	**30**		

3rd Semester

Teaching units	Coeff	Credits	evaluation mode

			Continued	Exam
Fundamental U				
FU1				
Eco-physiology and application to the control of the production of cultivated plants	03	06	40%	60%
Food and non-food recovery of plant products	03	06	40%	60%
FU2				
Cropping systems	03	06	40%	60%
Methodology U				
MU1				
Bioinformatics	03	05	40%	60%
Approaches and project management	02	04	33%	67%
Discovery U				
DU1				
GIS and cartography	02	02	33%	67%
Transversal U				
TU1				
Entrepreneurship	01	01	25%	75%
Total Semester3	**17**	**30**		

4th Semester :

Internship in a company sanctioned by a dissertation and a defence.

	Coefficient	Credits
Personal work	10	20
Company internship	05	10
Seminars	-	-
Other (specify)	-	-
Total Semester 4	**15**	**30**