

ALGERIAN PEOPLE'S DEMOCRATIC REPUBLIC

MINISTRY OF HIGHER EDUCATION

AND SCIENTIFIC RESEARCH

HARMONISATION OF MASTER

PROGRAMS Academic

Establishment	Faculty / Institute	Department
Hassiba Ben Bouali Chlef	Faculty of Natural and Life Sciences	Agronomy

Field: SNV

Sector: Agronomy

Speciality: Agroecology

I - Master's identity sheet (All fields must be completed)

1 - Location of the course :

Faculty (or Institute) :

SNV Department : Agronomy

2- Training partners *:

- other university establishments :

- Companies and other socio-economic partners: - Environmental services - DSA CHLEF - Forestry service - - ITAF INPV

3 - Context and objectives of the course

A - Admission requirements

Students wishing to enrol in the Master's in Agroecology must hold a bachelor's degree in one of the following specialisations: Agroecology, Plant Production, Plant Protection, Forestry, Ecology and the Environment: Agroecology, plant production, plant protection, forestry, ecology and the environment Entry to the second year of the Master's programme is conditional on obtaining a Master's degree in agroecology, and knowledge of biodiversity, ecosystem functioning and ecosystem management from a Master's degree in the environment or any other BAC+5 diploma based on a portfolio guaranteeing a high-quality approach open to reflection on spatial dynamics.

B - Objectives of the course

This degree is relevant in the current context, where the issue of sustainable development is at the heart of local, national and international policies, to enable the implementation of preventive, conservation and restoration strategies and paths, at different scales, in application of the Habitat, Forest and Water directives.

The aim of the specialism is to train managers and researchers at Master's level, with advanced research training in the field of plant production. These managers will need to be able to produce knowledge and methods, to play an active role in innovation processes and to support their implementation, so that agricultural production can meet the many challenges it faces at local, regional, national and international levels, particularly in terms of food security, environmental protection and natural resources, and adaptation to global changes, both

physical (climate change in particular) and socio-economic (internationalisation of trade, working conditions, etc.). particulier de la sécurité alimentaire, de la protection de l'environnement et des ressources naturelles, et de l'adaptation aux changements globaux tant de nature physique (changements climatiques en particulier) que socio-économique (internationalisation des échanges par exemple, conditions de travail...).

C - Profiles and skills required for the professions To provide teaching

that will enable students to become real specialists in :

- Urban development operations and management of the effects on the areas concerned: housing, business parks, restructuring of existing districts, old town centres, suburban regeneration.
- Development and protection of continental and coastal natural environments: parks, reserves, forests, water resources, inventory of natural resources, development of rural areas, etc.

D- Regional and national employability potential of graduates

- from agricultural research institutions,
- from universities,
- from international organisations (FAO, CGIAR's...),
- from governmental and non-governmental organisations providing support and advice to agricultural players, - from consultancy firms.

E - Gateways to other specialisations

- Agronomy,
- Agronomy, Environment
- Agri-environment and bio-indicators
- Ecology and Environment

F - Indicators for monitoring

the training The teaching team relies on a coherent whole based on the synergy of scientific know-how, technical resources and experience in the field of research and teaching throughout the training. Ongoing evaluation of students, ongoing support during work placements and an estimate of the number of graduates in relation to the total number of students enrolled are indicators which will be regularly updated, demonstrating the effectiveness of the actions which themselves contribute to achieving the overall strategic objectives.

Personal work accounts for a significant proportion of the overall timetable for the course; it will be monitored and led by the teachers of each subject and will culminate in presentations and mini-projects.

G - Student capacity (give the number of students that can be accommodated)

The number of students to be accommodated is 20 to 25 in the first and second years of the Master's programme.

Semester 1: Master's degree in agro-ecology

Teaching Unit	S Vulume	weekly volume				Coeff	Credits	Evaluation mode	
	14-16 sem	C	TD	TP	Travind			Continu	Examen
Fundamental units									
UEF1(O/P)									
Agro-ecology of production systems	67H30	1H30	1H30	1H30	82H30	3	6	40%	60%
Plant-environment interaction	45H	3H			55H	2	4	40%	60%
UEF2(O/P)									
Plant breeding	90H	3H	1H30	1H30	110H	4	8	40%	60%
Methodology unit									
UEM1(O/P)									
Geographic information system	60H	1H30	1H30	1H	65H	3	5	40%	60%
UEM2(O/P)									
Economics and water management	45H	1H30	1H30		55H	2	4	40%	60%
Discovery unit									
UED1(O/P)									
Environment education	22H30	1H30			2H30	1	1	40%	60%
Transversal units									
UET1(O/P)									
Communication	22H30	1H30			2H30	1	1	40%	60%
Scientific English	22H30	1H30			2H30	1	1	40%	60%
Total Semester 1	375H	15H	6H	4H	375H	17	30		

Semester 2: Master's degree in Agroecology

Teaching Unit	S Vulume	weekly volume				Coeff	Credits	Evaluation mode	
	14-16 sem	C	TD	TP	Travind			Continu	Examen
Fundamental units									
UEF1(O/P)									
Plant ecology	67H30	1H30	1H30	1H30	82H30	3	6	40%	60%
Biology of crop plants	45H	3H			55H	2	4	40%	60%
UEF2(O/P)									
Functioning and maintenance of agrosystems	90H	3H	1H30	1H30	110H	4	8	40%	60%
Methodology unit									
UEM1(O/P)									
Applied ecotoxicology	60H	1H30	1H30	1H	65H	3	5	40%	60%
UEM2(O/P)									
Transformation of organic food	45H	1H30	1H30		55H	2	4	40%	60%
Discovery unit									
UED1(O/P)									
Computing tools	22H30	1H30			2H30	1	1	40%	60%
Transversal units									
UET1(O/P)									
Legislation	22H30	1H30			2H30	1	1	40%	60%
Environmental policy and sustainable development	22H30	1H30			2H30	1	1	40%	60%
Total Semester 2	375H	15H	6H	4H	375H	17	30		