

**People's Democratic Republic of Algeria
Ministry of Higher Education and Science**

Hassiba Benbouali University of Chlef



Training offer

L.M.D

Academic degree

Institution	Faculty	Department
Hassiba Benbouali University of Chlef	Faculty of nature and life sciences	Water, Environment and Sustainable Development

Field: Nature and Life Sciences

Field: Ecology and environment

Speciality: Agroecology

II – Semi-annual organizational sheet of the specialty's teachings

Context and objectives of training

A – General organization of the training: position of the project

If several licenses are proposed or already supported at the institution level (same training team or other training teams), indicate in the following diagram the position of this project compared to the other courses.

B - Objectives of training

(Target skills, knowledge acquired at the end of training- maximum 20 lines)

Through this training the student will have the opportunity to acquire basic knowledge in agronomy and environment. The proposed course allows the student to pursue these master's studies. The jobs in these different sectors are often of a contractual type, with various titles, study supervisor, operations manager, study assistant, mission officer, development agent

C – Profiles and competencies:

The agroecology license is constituted to offer the fundamental bases allowing to open itself to the research through in-depth teachings of the relations of plants with the environment, the biodiversity, the components of horticulture, plant protection, space management, general methodology.

It aims to train students in knowledge, concepts of protection provide them with an open mind and the modes of reasoning necessary for the progression of knowledge and their applications and to forge skills to approach a research project.

D – Regional and national employability potential

5 main types of jobs will correspond to the skills acquired by the trainees:

General government

Steppe Development High Commission, Directorate-General for Forests, Forest Conservation.

National Forest Research Institute

National Biodiversity Research Centre (MATET)

Executive jobs

National parks and protected areas (managers responsible for planning, ecological monitoring, resource development)

Local authority environmental services (HAMA gardens, Algiers)

Enterprises and private concessions Logging concessions Hunting and fishing reserves

Organizations

Multilateral donors (IUCN, WWF) Public (BNEDER) and private development agencies

E – Gateways to other specialties

- Ecology and Environment
- Green space management
- Plant health

F – Expected performance indicators of the training (mandatory field) (Criteria for viability, success rate, employability, monitoring of graduates, skills achieved...)

The teaching team is based on a coherent whole based on the synergy of scientific know-how, technical means, experiments in the field of research and teaching throughout the training.

Continuous assessment of students, ongoing support during internships and estimation of the number of graduates in relation to the total number of enrolled students are indicators that will be regularly informed and contribute, the achievement of overall strategic objectives.

**II – Biannual Speciality Learning Organization
Sheet
(Please submit 6 semester sheets)**

Semester 1
Common Base «Nature and Life Sciences»

Teaching units			redits	coefficients	Hourly volume weekly			HVW (weeks 15)	Other	Mode of evaluation			
	Code	Entitled			Course	TD	TP			Continuous (40%)	Exam (60%)		
U E Fondamental Code : UEF 1.1	F 1.1.1	General and organic chemistry	6	3	1h30	1h30	1h30	67h30	60h00	x	40%	x	60%
	F 1.1.2	Cell biology	9	4	1h30	1h30	3h00	90h	90h00	x	40%	x	60%
U E Methodology Code : UEM 1.1	M 1.1.1	Mathematical Statistics Computer	5	2	1h30	1h30	-	45h00	60h00	x	40%	x	60%
	M 1.1.2	Communication and Expression Techniques 1 (in French)	3	2	1h30	1h30	-	45h00	45h00	x	40%	x	60%
U E Discovery Code : UED 1.1	D 1.1.1	Geology	5	3	1h30	-	3h00	67h30	60h00	x	40%	x	60%
U E Transversal Code : UET 1.1	T 1.1.1	Universal History of the Biological Sciences	2	1	1h30	-	-	22h30	45h00	x			
Total Semester 1			30	15	9h00	6h00	7h30	337h30	360h				

Semester 2

Teaching units			redits	oefficients	H.V weekly			HVW 15 weeks)	Other	Mode of evaluation			
	Code	Entitled			course	TP	TP			Continuous (40%)		Exam (60%)	
U E Fondamental Code : UEF 2.1	F 2.1.1	Thermodynamics and chemistry of solutions	6	3	1h30	1h30	1h30	67h30	60h	x	40%	x	60%
	F 2.1.2	Plant Biology	8	3	1h30	-	3h00	67h30	90h	x	40%	x	60%
	F 2.1.3	Animal Biology	8	3	1h30	-	3h00	67h30	90h	x	40%	x	60%
U E Methodology Code : UEM 2.1	M 2.1.1	Physical	4	2	1h30	1h30	--	45h00	45h	x	40%	x	60%
	M 2.1.2	ommunication and Expression Techniques 2 (in English)	2	2	1h30	1h30	-	45h00	45h	x	40%	x	60%
U E Transversal Code : UET 2.1	T 2.1.1	Working methods	2	1	1h30	-	-	22h30	25h	x			
Total Semester 2			30	14	10h30	4h30	7h30	315h	355h				

Semester 3

Teaching units	Entitled	Credits	coefficients	H.V weekly			HVW (15 weeks)	Other	Mode of evaluation			
				Course	TD	TP			Continuous (40%)		Exam (60%)	
U E Fondamental Code : UEF 2.1.1	Zoology	8	3	2 x 1h30	1h30	1h30	90h00	45h00	x	40%	x	60%
U E Fondamental Code : UEF 2.1.2	Biochemistry	8	3	2 x 1h30	1h30	1h30	90h00	45h00	x	40%	x	60%
	Genetic	8	3	2 x 1h30	2 x 1h30	-	90h00	45h00	x	40%	x	60%
U E Methodology Code : UEM 2.1.1	Communication and Expression Techniques (in English)	2	1	1h30	-	-	22h30	20h00			x	100%
U E Methodology Code : UEM 2.1.2	Working methods	2	1	1h30	-	-	22h30	20h00			x	100%
U E Discovery Code : UED 2.1.1	Biophysics	2	2	1h30	1h30	1h30	67h30	10h00	x	40%	x	60%
Total Semester 3		30	13	13h30	7h30	4h30	382h30	185h				

Semester 4

Teaching units	Entitled	Credits	Coefficients	H.V weekly			HVW (15 weeks)	Other	Mode of evaluation			
				Course	TD	TP			Continuous (40%)		Exam (60%)	
U E Fondamental Code : UEF 2.2.1	Botany	8	3	2 x 1h30	1h30	1h30	90h00	45h	x	40%	x	60%
U E Fondamental Code : UEF 2.2.2	Microbiology	8	3	2 x 1h30	1h30	1h30	90h00	45h	x	40%	x	60%
	Immunology	6	2	1h30	1h30	-	45h00	37h	x	40%	x	60%
U E Methodology Code : UEM 2.2.1	General Ecology	4	2	1h30	1h30	1h30	67h30	20h	x	40%	x	60%
U E Methodology Code : UEM 2.2.2	Biostatistics	4	2	1h30	1h30	-	45h00	37h	x	40%	x	60%
Total Semester 4		30	12	10h30	7h30	4h30	337h30	184h				

Semester 5

Teaching Unit	HVS	H.V weekly				Coeff	Credits	Mode of evaluation	
	15 weeks	C	TD	TP	other			Continuous (40%)	Exam (60%)
EU fundamental									
UEF 3.1.1 Mesology (Characterization of the medium)									
Subject 1: Biodiversity	67h30	3h	1h30		82h30	3	6	X	X
Material 2: Agroecology	67h30	1h30	1h30	*1h30		3	6	X	X
Subject 3: organic farming	67h30	1h30	1h30	*1h30		3	6	X	X
UEIN1 methodology									
Subject 1: ecopedology	60h00	1h30		*2h30	45h00	3	5	X	X
Subject 2: Bioclimatology	45h00	1h30	1h30			2	4	X	X
UED1 discovery									
Subject 1: experimental biostatistics	45h	1h30	1h30			2	2	X	X
UET1 transversal									
Subject 1: English	22h30	1h30				1	1	X	X
Total Semester 5	375h	12h00	112h30	82h5	375h	17	30		

*Field Exit

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Speciality: ecology and environment

Semester 6

Teaching Unit	HVS	H.V weekly				Coeff	Credits	Mode of evaluation	
	14-16 weeks	C	TD	TP	personal work			Continuous (40%)	Exam (60%)
EU fundamental									
UEF 1:									
Subject 1: global functioning of ecosystems	67h30	3h00	1h30	-	82h30	2	4	X	X
Subject 2: management of ecosystems and sustainable development	67h30	1h30	1h30	1h30*	82h30	3	6	X	X
UEF2									
Subject 1: protection of spaces	45h00	1h30			55h00	2	4	X	X
Subject 2: regulation and legislation	45h00	1h30		1h30	55h00	2	4		
UEM1 methodology									
Subject 1: phytoprotection	60h00	1h30		2h30*	65h00	3	5	X	X
Subject 2: adaptation of plants to stress	45h00	1h30		1h30*	55h00	2	4		
UED1 discovery									
Subject 1: Ecotoxicology	45h00	1h30		1h30*	5h00	2	2	X	X
UET1 transversal									
Subject 1: entrepreneurship	22h30	1h30			2h30	1	1		X
Total Semester 6	375h00	180h00	67h30	153h00	375h00	17	30		

Overall summary of training: (indicate the separate global VH in progress, TD, TP... for the 06 teaching semesters, for the different types of UE)

UE HV	UEF	UEM	UED	UET	Total
Course	810	270	112,5	135	1327,5
TD	180	22,5	0	-	202,5
TP	225	337,5	112,5	-	675
Personal work	1485	720	30	15	2250
Field exit					
Total	2700	1350	300	150	4500
Credits	108	54	12	6	180
% in credits for each EU	60%	30 %	6,67%	3,33%	100%

