

DEMOCRATIC AND POPULAR REPUBLIC OF ALGERIA

**MINISTRY OF HIGHER EDUCATION
AND SCIENTIFIC RESEARCH**



**HARMONIZATION
MASTER TRAINING OFFER**

ACADEMIC/PROFESSIONALIZING

Establishment	Faculty / Institute	Department
University of CHLEF - Hassiba Benbouali	Faculty of Science of Nature and the Life	Agronomy

Field: Natural and Life Sciences

Branch: Agronomy

Specialty: Plant Protection

Academic year: 2024-2025

Semi-annual Learning Organization Sheet

1- Semester 1:

Teaching unit	VHS	V.H weekly				Coeff	Crédits	Teaching Mode		Evaluation mode	
	14-16 weeks	C	T	PW	others			On line	Face to face	continuous	Exam
Basic TU											
BTU1(O/P) : Zoology											
Subject 1 : agricultural entomology	67h30	3h00		1h30	82h30	3	6	-	x	40%	60%
Suject 2 : Nématology	67h30	3h00		1h30	82h30	3	6	-	x	40%	60%
BTU2(O/P) :Phytopathology											
Subject 1 : Phytopathology	67h30	3h00		1h30	82h30	3	6	-	x	40%	60%
Methodology TU											
MTU1 (O/P) : vegetal ecology											
Subject 1 : vegetal ecology	60h	1h30	1h30	1h00	65h	3	5	-	x	40%	60%
MTU2 (O/P) : Amimal ecology											
Subject 1 : crop pest ecology	45h	1h30	1h30		55h	2	4	-	x	40%	60%
Discovery TU											
DTU 1 (O/P : cross-border pests and diseases											
Subject 1 : Cross-border/emerging pests and diseases	22h30	1h30		1h30	2h30	1	1	x	x	40%	60%
Subject 2 : Computer Programming Applied to Science and Technology	22h30	0h30		1h	2h30					40%	60%
Transverse TU											
TTU1 (O/P) : Communication											
Subject 1 : Communication	22h30	1h30			2h30	1	1	x	x	-	100%
Total Semester 1	375h	15h30	3h00	8h	375h	17	30				

Etablissement :

Année universitaire :

Intitulé du master : Protection des Végétaux

Page 2

2- Semester 2:

Teaching unit	VHS	V.H weekly				Coeff	Crédits	Teaching Mode		Evaluation mode	
	14-16 weeks	C	T	PW	individual works			On line	Face to face	continuous	Exam
Basic TU											
BTU1(O/P) : Bio-systematic and Insect physiology											
Subject 1 : Insect biosystematics	67h30	3h00	-	1h30	82h30	3	6	-	x	40%	60%
Subject 2 Insect physiology	45h	1h30		1h30	55h	2	4	-	x	-	100%
BTU2(O/P) :Biomédication végétale											
Subject 1 : Physiopathology	45h	1h30	1h30		55h	2	4	-	x	40%	60%
Subject 2 : Plant resistance mechanisms	45h	1h30		1h30	55h	2	4	-	x	40%	60%
Methodology TU											
MTU1 (O/P) :Ecotoxicology											
Subject 1 : Ecotoxicology	60h	1h30	1h30	1h00	65h	3	5	-	x	40%	60%
MTU2 (O/P)): Expérimentation											
Subject 1 : Agricultural Experimentation and Biostatistics	45h	1h30		1h30	55h	2	4	-	x	40%	60%
Discovery TU											
DTU 1 (O/P) :Nutrition											
Subject 1 : Plant nutrition and physiological plant diseases	22h30	1h30	1h30		2h30	1	1	x	x	40%	60%
Subject 2 : Artificial Intelligence Applied to Science and Technology	22h30	0h30		1h	2h30	1	1			40%	60%
Transverse TU											
TTU1 (O/P)):Législation											
Subject 1 : Legislation and plant quarantine	22h30	1h30			2h30	1	1	x	x	-	100%
Total Semester 2	375h	14h	4h30	8h	375h	17	30				

3.Semester 3

Teaching unit	VHS	V H. weekly				Coeff	Crédits	Teaching Mode o		Evaluation Mode	
	14-16 weeks	C	T	PW	individual works			On line	Face to face	continuous	Exam
Basic TU											
BTU1(O/P) :Phytoprotection											
Subject1: biological control	45h00	1h30		1h30	55h00	2	4	-	x	40%	60%
Subject 2 : Physical and radiobiological control	45h00	1h30	1h30	-	55h00	2	4	-	x	40%	60%
BTU2 (O/P):Phytopharmacy											
Subject 1 : phytopharmacy	67h30	3h00	-	1h30	82h30	3	6	-	x	40%	60%
Subject 2 : Epidémiology	45h00	1h30	1h30		55h00	2	4				
Methodology TU											
MTU1 (O/P) :Bioinformatics											
Matière 1 : Applied bioinformatics	60h	1h30	1h00	1h30	65h	3	5	-	x	40%	60%
MTU2 (O/P): Health and safety											
Subject 1 Health and safety	45h00	1h30		1h30	55h00	2	4	-	x	40%	60%
Discovery TU											
DTU 1 (O/P)											
Subject 1: Scientific English	22h30	1h30	1h30		2h30	1	1	x	x	40%	60%
Subject 2/ Free and Open-Source Software	22h30	0h30		1h	2h30	1	1			40%	60%
Transverse TU											
TTU1 (O/P) Entrepreneurial											
Subject 1 Entrepreneurial	22h30	1h30			2h30	1	1	x	x	-	100%
Total Semester 3	375h	14h	5h30	7h	375h	17	30				

4- Semester 4:

Field: Science of Nature and Life

Sector: Agronomic sciences

Specialty: Plant protection

Traineeship in a company leading to a dissertation and a defense.

	VHS	Coeff	Crédits
Personal work	450h	9	18
Traineeship	225h	5	09
Seminars	75	3	3
Other	/	/	/
Total Semester 4	750h	17	30

5- Overall summary of training:

VH \ TU	BTU	MTU	DMU	IMU	Total
Courses	405	180	90	90	765
T	67.5	82.5	45	0	195
PW	337.5	157.5	45	0	540
Personal work	990	480	20	10	1500
Autre (préciser)	-	-	-	-	-
Total	1800	900	200	100	3000
Crédits	72	36	8	4	120
% in credits for each TU	60	30	6.67	3.33	100.00

