

PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA  
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH



## HARMONISATION

## ACADEMIC MASTER'S PROGRAM OFFER

# TOXICOLOGY

University	Faculty / Institute	Department
Hassiba Ben Bouali University of Chlef	Natural and Life Sciences	Biology

Field : Natural and Life Sciences

program : Biological Sciences

Specialization : Toxicology

## **II – Semester Organization Sheet for Courses.**

## 1- Semester 1:

Course Unit	Total Hours	Weekly Hours				Coeff	Credits	Evaluation Method	
	14-16 weeks	C	TD	TP	Other*			Continuous (40%)	Exam (60%)
<b>Fundamental Units</b>									
<b>UEF1(O/P)</b>									
Subject 1: Microbial Ecology of Food, Water, and the Environment	67h30	3h		1h30	82h30	3	6	2	1
Subject 2: Fate of Pollutants in the Environment	67h30	3h	1h30		82h30	3	6	2	1
<b>UEF2(O/P)</b>									
Subject 1: Food Toxicology and Veterinary Drug Residues	67h30	1h30	1h30	1h30	82h30	3	6	2	1
<b>Methodology Unit</b>									
<b>UEM1(O/P)</b>									
Subject 1: Computer Tools in Statistics	60	1h30	1h30	1h	65h	3	5	2	1
Subject 2: Ecotoxicology	45h	1h30	1h30		55h	2	4	2	1
<b>Discovery Unit</b>									
<b>UED1(O/P)</b>									
Subject 1: Physiopathological Effects of Environmental Risks	45	1h30	1h30		5h	2	2	2	1
<b>Transversal Units</b>									
<b>UET1(O/P)</b>									
Subject 1: Communication	22h30	1h30			2h30	1	1	2	1
<b>Total Semester 1</b>	<b>375h</b>	<b>13h30</b>	<b>7h30</b>	<b>4h</b>	<b>375h</b>	<b>17</b>	<b>30</b>		

## 2- Semester 2:

Course Unit	Total Hours	Weekly Hours				Coeff	Credits	Evaluation Method	
	14-16 weeks	C	TD	TP	Other*			Continu (40%)-	Examen (60%)-
<b>Fundamental Units</b>									
<b>UEF1(O/P)</b>									
Subject 1: Medicinal Toxicology	67h30	1h30	1h30	1h30	82h30	3	6	2	1
Subject 2: Toxicology, Environment, Health	67h30	3h	-	1h30	82h30	3	6	2	1
<b>UEF2(O/P)</b>									
Subject 1: Organotoxicity	67h30	3h	1h30		82h30	3	6	2	1
<b>Methodology Unit</b>									
<b>UEM1(O/P)</b>									
Subject 1: Epidemiology Applied to the Environment	60	1h30	1h30	1h	65h	3	5	2	1
Subject 2: Biosafety	45h	1h30	1h30		55h	2	4		
<b>Discovery Unit</b>									
<b>UED1(O/P)</b>									
Subject 1: English	45	1h30	1h30		5h	2	2	2	1
<b>Transversal Units</b>									
<b>UET1(O/P)</b>									
Subject 1: Health, Safety, and Environmental Law	22h30	1h30			2h30	1	1	2	1
<b>Total Semester 2</b>	<b>375h</b>	<b>13h30</b>	<b>7h30</b>	<b>4h</b>	<b>375h</b>	<b>17</b>	<b>30</b>		

### 3- Semester 3 :

Unité d'Enseignement	VHS	V.H hebdomadaire				Coeff	Crédits	Mode d'évaluation	
	14-16 sem	C	TD	TP	Autres*			Continu (40%)-	Examen (60%)-
<b>Fundamental Units</b>									
<b>UEF1(O/P)</b>									
Subject 1: Environmental Risk Management	67h30	3h	1h30		82h30	3	6	2	1
Subject 2: Toxicological Risk Management in the Workplace	67h30	1h30	1h30	1h30	82h30	3	6		
<b>UEF2(O/P)</b>									
Subject 1: Environmental Imbalances and Mutagenesis	67h30	3h	1h30		82h30	3	6	2	1
<b>Methodology Unit</b>									
<b>UEM1(O/P)</b>									
Subject 1: Toxicological Analysis Techniques	60	1h30	-	2h30	65h	3	5	2	1
Subject 2: Regulatory Toxicology	45h	1h30	1h30		55h	2	4		
<b>Discovery Unit</b>									
<b>UED1(O/P)</b>									
Subject 1: Public Health	45	1h30	1h30		5h	2	2	2	1
<b>Transversal Units</b>									
<b>UET1(O/P)</b>									
Subject 1: Entrepreneurship	22h30	1h30			2h30	1	1	2	1
<b>Total Semester 3</b>	<b>375h</b>	<b>13h30</b>	<b>7h30</b>	<b>4h</b>	<b>375h</b>	<b>17</b>	<b>30</b>		

#### 4- Semester 4 :

**Field : Natural and Life Sciences**

**program** : Biological Sciences

**Specialization** : Toxicology

Internship at a company, assessed via a thesis and oral defense.

	<b>VHS</b>	<b>Coeff</b>	<b>Crédits</b>
<b>Personal Work</b>	225	9	20
<b>Internship in a Company</b>	150	6	10
<b>Seminars</b>			
<b>Other</b>			
<b>Total Semester 4</b>	<b>375</b>	<b>15</b>	<b>30</b>

**5- Overall Summary of the Program:** (Indicate the total hours separated into lectures, tutorials, for the 04 semesters of instruction, for the different types of course units)

<b>VH \ UE</b>	<b>UEF</b>	<b>UEM</b>	<b>UED</b>	<b>UET</b>	<b>Total</b>
<b>courses</b>	405	180	67.5	90	742.5
<b>directed studies</b>	157.5	90	45	-	292.5
<b>Practical Work</b>	45	90	22.5	-	157.5
<b>Personal Work</b>	967.5	360	<b>15</b>	7.5	1350
<b>Other</b>		150			150
<b>Total</b>	1575	870	150	97.5	2692.5
<b>Credits</b>	72	38	6	4	<b>120</b>
<b>% of Credits for Each Course Unit</b>	60%	31.67%	5%	3.33%	100%