Pedagogical Program

ACADEMIC MASTER

Branch *Ecology and Environment* **Speciality** *Protection of Ecosystems*

Establishment	Faculty	Department
Khemis Miliana	Faculty of Nature and Life	Ecology and
University	Sciences and Earth Sciences	Environment

Field	Branch	Speciality
Nature and Life Sciences	Ecology and Environment	Protection of Ecosystems

Brief

The Ecosystem Protection Master's favors the development of integrated observation of natural "objects" centered on the transfer of water and matter and their physical, chemical and biogeochemical transformations within the Atmosphere-Biosphere-Hydrosphere-Pedosphere system. Emphasis is placed on a quantitative physical, chemical and biological approach to natural processes which correspond to the "original" training in Natural and Life Sciences (SNV) in the specialties related to water and the environment.

Semester organization sheet for lessons

Semester 01

Teaching unit	Matter		Coefficient	-			semester hourly
9				C	TD	TP	volume
	Natural territorial systems	6	3	1h30	1h30	1h30	67h30
Fundamental Unit	Degradation of the environment and ecosystems		3	3h00	1h30		67h30
Environmental climatology		6	3	1h30	1h30	1h30	67h30
Methodological	Statistical analyzes of data	5	3	1h30	1h00	1h30	60h00
unit	Sampling and experimentation	4	2	1h30		1h30	45h00
Discovery	Renewable and non-renewable energies	1	1	1h30			22h30
unit	Scientific English I	1	1	1h30			22h30
Transversale Communication Unit		1	1	1h30			22h30
Total Semester			17	13h00	5h30	6h00	375h00

Semester 02

Teaching unit	Matter		Coefficient	Weekly hourly volume			semester hourly	
				C	TD	TP	volume	
	General ecotoxicology	6	3	3h00	1h30	1h30	67h30	
Fundamental	Waste management and treatment		2	3h00	1h30		45h00	
Unit	Ecological approach to land use planning	4	2	1h30	1h30		45h00	
	Environmental rehabilitation techniques	4	2	1h30	1h30		45h00	
Methodological	Spatial analysis and remote sensing	5	3	1h30	1h00	1h30	60h00	
unit	Hydrobiogeochemical cycles	4	2	1h30	1h30		45h00	
Discovery unit Environmental impact study		2	2	1h30	1h30		45h00	
Transversale Unit			1	1h30			22h30	
Total Semester		30	17	12h00	10h00	3h00	375h00	

Semester 03

Teaching unit	Matter		Coefficient	Weekly hourly volume			semester hourly
				C	TD	TP	volume
	Management of protected areas	6	3	3h00	1h30		67h30
Fundamental Unit	Applied Ecotoxicology Management and development of unconventional resources		3	1h30	1h30	1h30	67h30
			3	1h30	1h30	1h30	67h30
Motho dological	Applied Geostatistics	5	3	1h30	1h00	1h30	60h00
Methodological unit	Instrumental analyzes and good laboratory practices	4	2	1h30		1h30	45h00
Environmental Economics Discovery		1	1	1h30			22h30
unit	Scientific English II	1	1	1h30			22h30
Transversale Unit	r r		1	1h30			22h30
Total Semester		30	17	13h30	5h30	6h00	375h00

Semester 4

Training course in a company and/or in a university laboratory finalized by a dissertation and a defense..

	VHS	Coeff	Credit
Personal Work	450	09	18
Internship in a company	420	04	06
Workshops	75	02	03
Other (Research Laboratory)	35	02	03
Total Semester 4	750	17	30