

UNIVERSITY OF BATNA 2

HARMONIZATION OF TRAINING OFFER JULY 2026

**AMENDING THE TEACHING PROGRAM
FOR THE AWARD OF THE ACADEMIC BACHELOR'S DEGREE**

FIELD: EARTH AND UNIVERSE SCIENCES (EUS)

BRANCH: GEOGRAPHY AND TERRITORIAL PLANNING (GTP)

SPECIALTY: RISK MANAGEMENT, ENVIRONMENT AND CIVIL SECURITY

**SEMESTER SHEETS FOR THE ORGANIZATION OF COURSES OF ACADEMIC
LICENCE IN RISK MANAGEMENT, ENVIRONMENT AND CIVIL SECURITY, DIVIDED
INTO TEACHING UNITS**

Semester 1: 1st year common base

Teaching Unit (TU)	Weekly Teaching Hours					Coefficient	Credits	Evaluation method	
	C	DW	PW	HVW (15)	Others*			CA	Exam
TU Fundamentals TUF 11									
FC 111 Analysis of the geographical space and territory planning 1	3h 00	-	3h 00	90h00	45h00	4	8	40%	60%
TU Fundamentals TUF 12									
FC 121 General Geology	1h 30	-	1h 30	45h00	45h00	2	4	40%	60%
FC 122 Mapping Techniques	1h 30	-	1h 30	45h00	45h00	2	4	40%	60%
TU Methodology TUM11									
MC 111 Biology	1h 30	1h 30	-	45h00	45h00	2	3	40%	60%
MC 112 Chemistry	1h 30	-	1h 30	45h00	45h00	2	2	40%	60%
MC 113 Mathematics 1	1h 30	1h 30	-	45h00	45h00	2	3	40%	60%
MC 114 Physics 1	1h 30	1h 30	-	45h00	45h00	1	2	40%	60%
TU Discovery TUD11									
DC 11 Computer science 1	1h 30	-	-	22h30	45h00	1	3	-	100%
TU Transverse TUT11									
TC 11 Algerian history	1h 30	-	-	22h30	45h00	1	1	-	100%
Total Semester 1	15h00	4h30	7h30	405h00	405h00	17	30		

WTH: weekly Teaching hours / C: course / DW: directed work / PW: practical work / others*: additional work in semester consultation

Coefficient: coefficient of the teaching unit / Credits: number of credits of the teaching unit/ CA: Continuous assessment

Semester 2: 1st year common base

Teaching Unit (TU)	Weekly Teaching Hours					Coefficient	Credits	Evaluation method	
	C	SW	PW	HVW (15)	Others*			CA	Exam
TU Fundamentals TUF 21									
TC 211 Analysis of the geographical space and territory planning 2	3h 00	-	3h 00	90h00	45h00	4	8	40%	60%
TU Fundamentals TUF 22									
FC 222 Urbanism	1h 30	-	1h 30	45h00	45h00	3	5	40%	60%
FC 223 Geomorphology	1h 30	-	1h 30	45h00	45h00	3	4	40%	60%
TU Methodology TUM 21									
MC 211 Mathematics 2	1h 30	1h 30	-	45h00	45h00	2	3	40%	60%
MC 221 Physics 2	1h 30	1h 30	-	45h00	45h00	2	3	40%	60%
MC 213 Introduction to geomatics	1h 30	1h 30	-	45h00	45h00	1	3	40%	60%
TU Discovery TUD 21									
DC 211 Programming	1h 30	-	-	22h30	45h00	1	3	-	100%
TU Transverse TUT 21									
TC 211 Nationalism and citizenship	1h 30	-	-	22h30	45h00	1	1	-	100%
Total Semester 2	13h30	4h30	6h00	360h00	360h00	17	30		

WTH: weekly Teaching hours / C: course / DW: directed work / PW: practical work / others*: additional work in semester consultation

Coefficient: coefficient of the teaching unit / Credits: number of credits of the teaching unit/ CA: Continuous assessment

Semester 3: 2nd year RMECS

Teaching Unit (TU)	Weekly Teaching Hours					Coefficient	Credits	Evaluation method	
	C	DW	PW	HVW (15)	Others*			CA	Exam
TU Fundamentals TUF 31									
FC 311 Hydrology	1h 30	1h 30	-	45h00	-	3	5	40%	60%
FC 312 Bioclimatology	1h 30	1h 30	-	45h00	-	3	5	40%	60%
TU Fundamentals TUF 32									
FC 321 Dynamic Geomorphology	1h 30	1h 30	-	45h00	-	2	4	40%	60%
FC 322 Demographic analysis	1h 30	1h 30	-	45h00	-	2	4	40%	60%
TU Methodology TUM 31									
MC 311 Remote Sensing	1h 30	-	1h 30	45h00	-	2	5	40%	60%
MC 312 Introduction to GIS	1h 30	-	1h 30	45h00	-	2	4	40%	60%
TU Discovery TUD 31									
DC 311 Analysis of cartographic documents	1h 30	1h 30	-	45h00	-	2	1	40%	60%
DC 312 Economy	1h 30	-	-	22h30	-	1	1	-	100%
TU Transverse TUT 31									
TC 311 Artificial intelligence	1h 30	-	-	22h30	-	1	1	-	100%
Total Semester 3	13h30	7h30	3h00	360h00	-	17	30		

WTH: weekly Teaching hours / C: course / DW: directed work / PW: practical work / others*: additional work in semester consultation

Coefficient: coefficient of the teaching unit / Credits: number of credits of the teaching unit/ CA: Continuous assessment

Semester 4: 2nd year RMECS

Teaching Unit (TU)	Weekly Teaching Hours					Coefficient	Credits	Evaluation method	
	C	DW	PW	HVW (15)	Others*			CA	Exam
TU Fundamentals TUF 41									
FC 411 Dynamics of Physical middle and Analysis of Natural Hazards	1h 30	1h 30	-	45h00	-	3	5	40%	60%
FC 412 Typology of natural risks	1h 30	1h 30	-	45h00	-	3	5	40%	60%
FC 413 Technological risks	1h 30	1h 30	-	45h00	-	3	5	40%	60%
TU Fundamentals TUF 42									
FC 421 General methodology and risk analysis	1h 30	1h 30	-	45h00	-	2	5	40%	60%
FC 422 Pollution and Environment	1h 30	1h 30	-	45h00	-	2	5	40%	60%
TU Methodology TUM 41									
MC 411 Risk mapping	1h 30	1h 30	-	45h00	-	2	3	40%	60%
TU Discovery TUD 41									
DC 411 Ethics and deontology	1h 30	-	-	22h30	-	1	1	-	100%
DC 412 Open source	1h 30	-	-	22h30	-	1	1	-	100%
Total Semester 4	12h00	9h00	-	315h00	-	17	30		

WTH: weekly Teaching hours / C: course / DW: directed work / PW: practical work / others*: additional work in semester consultation

Coefficient: coefficient of the teaching unit / Credits: number of credits of the teaching unit/ CA: Continuous assessment

Semester 5: 3rd year RMECS

Teaching Unit (TU)	Weekly Teaching Hours					Coefficient	Credits	Evaluation method	
	C	DW	PW	HVW (15)	Others*			CA	Exam
TU Fundamentals TUF 51									
FC 511 Introduction to the cindynic	1h 30	1h 30	-	45h00	-	3	4	40%	60%
FC 512 Techniques and practice of planning	1h 30	-	3h 00	67h30	-	2	5	40%	60%
FC 513 Territorial governance and urban planning	1h 30	1h 30	-	45h00	-	2	4	40%	60%
TU Fundamentals TUF 52									
FC 521 Space analysis and vulnerability assessment	1h 30	1h 30	-	45h00	-	2	4	40%	60%
FC 522 Soil mechanics	1h 30	-	1h 30	45h00	-	2	4	40%	60%
FC 522 Geophysics	1h 30	1h 30	-	45h00	-	2	3	40%	60%
TU Methodology TUM 51									
MC 511 Applied geomatics	-	-	3h 00	45h00	-	2	2	40%	60%
MC 512 Research methodology	1h 30	-	-	22h30	-	1	2	-	100%
TU Discovery TUD 51									
DC 311 Legislation and planning, environment and Risks	-	-	3h 00	45h00	-	1	2	100%	-
Total Semester 5	10h30	6h00	10h30	405h00	-	17	30		

WTH: weekly Teaching hours / C: course / DW: directed work / PW: practical work / others*: additional work in semester consultation

Coefficient: coefficient of the teaching unit / Credits: number of credits of the teaching unit/ CA: Continuous assessment

Semester 6: 3rd year RMECS

Teaching Unit (TU)	Weekly Teaching Hours					Coefficient	Credits	Evaluation method	
	C	DW	PW	HVW (15)	Others*			CA	Exam
TU Fundamentals TUF 61									
FC 611 Risk management (Prediction, prevention, protection)	1h 30	3h 00	-	67h30	-	3	5	40%	60%
FC 612 Organization of the Civil Security Response	1h 30	1h 30	-	45h00	-	3	5	40%	60%
TU Fundamentals TUF 62									
FC 621 Expertise, Insurance and compensation systems related to risks	1h 30	1h 30	-	45h00	-	3	5	40%	60%
FC 622 Evaluation of Socio-economic Impacts	1h 30	1h 30	-	45h00	-	3	5	40%	60%
TU Methodology TUM 61									
MC 611 Field internship	-	-	-	45h00	-	2	4	100%	-
TU Discovery TUD 61									
DC 611 computer design (risk exposure plan, risk prevention plan)	-	-	3h 00	45h00	-	1	3	100%	-
TU Transverse TUT 61									
TC 611 Technical English	1h 30	-	-	22h30	-	1	2	-	100%
TC 612 Entrepreneurship	1h 30	-	-	22h30	-	1	1	-	100%
Total Semester 6	9h00	7h30	3h00	292h30	-	17	30		

WTH: weekly Teaching hours / C: course / DW: directed work / PW: practical work / others*: additional work in semester consultation

Coefficient: coefficient of the teaching unit / Credits: number of credits of the teaching unit/ CA: Continuous assessment