UNIVERSITY OF CRAIOVA/ FACULTY OF EXACT SCIENCES/ DEPARTMENT OF PHYSICS
FIELD OF STUDY/ PROGRAMME OF STUDY: ENVIRONMENTAL SCIENCE/ ENVIRONMENTAL PHYSICS
LEVEL OF QUALIFICATION: BACHELOR OF ENVIRONMENTAL SCIENCE
MODE OF STUDY: FULL-TIME STUDIES
LENGTH OF THE PROGRAMME OF STUDY/ TOTAL NUMBER OF ECTS CREDITS: 3 YEARS (6 semesters)/180 CREDITS

CURRICULA – 1st YEAR OF STUDIES

No.	Subject title	Subject type A/B	Subject code	1st semester					2nd semester				
				C	S	L/P	Evaluation mode	ECTS credits	C	S	L/P	Evaluation mode	ECTS credits
1	Mathematical analysis	Mandat./fundamental	FC101	4	3	-	Ex	8	-	-	-	-	-
2	Introduction to Mathematical Physics	Mandat./fundamental	FC102	2	2	-	Ex	5	-	-	-	-	-
3	Molecular Physics and Heat	Mandat./fundamental	FC103	4	-	3	Ex	8	-	-	-	-	-
4	Newtonian mechanics	Mandat./fundamental	FC104	4	-	3	Ex	8	-	-	-	-	-
5	Language course I	Mandat./complementary	FC105	1	-	-	Coll	1	-	-	-	-	-
6	Algebra and Geometry	Mandat./fundamental	FC106	-	-	-	-	-	4	2	-	Ex	7
7	Differential Equations in Mathematical Physics	Mandat./complementary	FC107	-	-	-	-	-	2	1	-	Coll	4
8	Electricity and Magnetism	Mandat./fundamental	FC108	-	-	-	-	-	4	-	3	Ex	8
9	Optics	Mandat./fundamental	FC109	-	-	-	-	-	4	-	3	Ex	8
10	General Chemistry	Mandat./complementary	FC110	-	-	-	-	-	2	-	1	Coll	3
11	Plant Biology	Non-mandat./fundamental	SM112	2	-	2	Ex	5	-	-	-	-	-
12	Animal Biology	Non-mandat./fundamental	SM114	-	-	-	-	-	2	-	2	Ex	5

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CURRICULA – 2nd YEAR OF STUDIES

No.	Subject title	Subject type A/B	Subject code	1st semester					2nd semester				
				C	S	L/P	Evaluation mode	ECTS credits	C	S	L/P	Evaluation mode	ECTS credits
1	Electronics	Mandat./fundamental	FC201	2	-	2	Coll	4	-	-	-	-	-
2	Theoretical Mechanics	Mandat./fundamental	FC202	3	3	-	Ex	7	-	-	-	-	-
3	Thermodynamics	Mandat./fundamental	FC203	2	2	-	Ex	5	-	-	-	-	-
4	Electrodynamics	Mandat./fundamental	FC204	4	4	-	Ex	9	-	-	-	-	-
5	Quantum Mechanics I	Mandat./fundamental	FC205	2	2	-	Ex	5	-	-	-	-	-
6	Quantum Mechanics II	Mandat./fundamental	FC206	-	-	-	-	-	2	2	-	Coll	4
7	Statistical Physics	Mandat./fundamental	FC207	-	-	-	-	-	2	2	-	Coll	4
8	Solid physics and semiconductors	Mandat../fundamental	FC208	-	-	-	-	-	4	-	3	Ex	8
9	Physics of the Atom and Molecule	Mandat./fundamental	FC209	-	-	-	-	-	4	-	3	Ex	8
10	Nuclear Physics	Mandat./fundamental	FC210	-	-	-	-	-	2	-	2	Ex	5
11	Practice 2weeks x 40hours=80hours	Mandat./specialty	SM211	-	-	-	-	-	-	-	-	CA	1
12	Water resource management	Non-mandat./fundamental	SM212	2	2	-	Ex	5	-	-	-	-	-
13	Environmental economics	Non-mandat./fundamental	SM213	-	-	-	-	-	2	2	-	Ex	5

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LEVEL OF QUALIFICATION: BACHELOR OF ENVIRONMENTAL SCIENCE
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LENGTH OF THE PROGRAMME OF STUDY/ TOTAL NUMBER OF ECTS CREDITS: 3 YEARS (6 semesters)/180 CREDITS

CURRICULA – 3rd YEAR OF STUDIES

No.	Subject title	Subject type A/B	Subject code	1st semester					2nd semester				
				C	S	L/P	Evaluation mode	ECTS credits	C	S	L/P	Evaluation mode	ECTS credits
1	Environment physics	Mandat./specialty	SM301	2	-	2	Ex	5	-	-	-	-	-
2	Spectral Methods of Analysis	Mandat./specialty	SM302	2	-	2	Ex	5	-	-	-	-	-
3	Physics of the Earth and Atmosphere. Meteorology	Mandat./specialty	SM303	3	-	3	Ex	6	-	-	-	-	-
4	Unpollutive Technologies	Mandat./specialty	SM304	2	-	2	Coll	4	-	-	-	-	-
5	Risk Factors, Depollution and Environment Restoration	Mandat./specialty	SM305	-	-	-	-	-	3	-	2	Ex	5
6	Meteorology of the Atmospheric Limit Layer	Mandat./specialty	SM306	-	-	-	-	-	2	-	2	Ex	4
7	Practice for elaboration of bachelor thesis 2weeks x 30hours=60hours	Mandat./fundamental	FC307	-	-	-	-	-	-	-	-	CA	1
8	Optional discipline 1*	Opt./ specialty	-	2	2	(2)	Coll	5	-	-	-	-	-
9	Optional discipline 2*	Opt./ specialty	-	2	2	(2)	Coll	5	-	-	-	-	-
10	Optional discipline 3*	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
11	Optional discipline 4*	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
12	Optional discipline 5*	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
13	Optional discipline 6*	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
14	Environmental law, legislation, policies and strategies	Non-mandat./fundamental	SM328	2	2	-	Coll	5	-	-	-	-	-
15	Methodology of Impact Studies	Non-mandat./fundamental	SM329	-	-	-	-	-	2	2	-	Coll	5

*The list of available optional disciplines and associated specific practical activities (seminar or laboratory) can be found in the next appendix. For each optional discipline there will be activated at least two distinct subjects from the following appendix.

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APPENDIX – LIST OF OPTIONAL DISCIPLINES

No.	Subject title	Subject code	C	S	L/P	No.	Subject title	Subject code	C	S	L/P
1	Polluants Diffusion in the Atmosphere	SM308	2	-	2	11	Physicochemical analysis in environmental hygiene	SM318	2	-	2
2	General Ecology	SM309	2	-	2	12	Optical apparatus for environmental investigation	SM319	2	-	2
3	Green energy sources	SM310	2	-	2	13	Human anatomy and hygiene	SM320	2	-	2
4	Elements of seismology	SM311	2	-	2	14	Biodegradable Materials	SM321	2	-	2
5	Atmosphere and air quality	SM312	2	-	2	15	Environmental Geography	SM322	2	-	2
6	Nonlinear models in Environmental Physics	SM313	2	-	2	16	Environmental Data Analysis	SM323	2	-	2
7	Global Heating and Climatic Changes	SM314	2	-	2	17	Solar radiant energy	SM324	2	2	-
8	Effects of radiation on environment	SM315	2	-	2	18	Pollution and environmental protection	SM325	2	-	2
9	Environmental Chemistry	SM316	2	-	2	19	Action of environmental factors on surfaces	SM326	2	-	2
10	Soil science	SM317	2	-	2	20	Environmental pollution by physical agents	SM327	2	2	-

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