

UNIVERSITY OF CRAIOVA/ FACULTY OF EXACT SCIENCES/ DEPARTMENT OF PHYSICS

FIELD OF STUDY/ PROGRAMME OF STUDY: PHYSICS/ PHYSICS

LEVEL OF QUALIFICATION: BACHELOR IN PHYSICS

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	1 <sup>st</sup> semester					2 <sup>nd</sup> semester				
				C	S	L/P	Evaluation mode	ECTS credits	C	S	L/P	Evaluation mode	ECTS credits
1	<a href="#">Mathematical analysis</a>	Mandat./fundamental	FC101	4	3	-	Ex	8	-	-	-	-	-
2	<a href="#">Introduction to Mathematical Physics</a>	Mandat./fundamental	FC102	2	2	-	Ex	5	-	-	-	-	-
3	<a href="#">Molecular Physics and Heat</a>	Mandat./fundamental	FC103	4	-	3	Ex	8	-	-	-	-	-
4	<a href="#">Newtonian mechanics</a>	Mandat./fundamental	FC104	4	-	3	Ex	8	-	-	-	-	-
5	Language course I	Mandat./complementary	FC105	1	-	-	Coll	1	-	-	-	-	-
6	<a href="#">Algebra and Geometry</a>	Mandat./fundamental	FC106	-	-	-	-	-	4	2	-	Ex	7
7	<a href="#">Differential Equations in Mathematical Physics</a>	Mandat./complementary	FC107	-	-	-	-	-	2	1	-	Coll	4
8	<a href="#">Electricity and Magnetism</a>	Mandat./fundamental	FC108	-	-	-	-	-	4	-	3	Ex	8
9	<a href="#">Optics</a>	Mandat./fundamental	FC109	-	-	-	-	-	4	-	3	Ex	8
10	<a href="#">General Chemistry</a>	Mandat./complementary	FC110	-	-	-	-	-	2	-	1	Coll	3

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CURRICULA – 2nd YEAR OF STUDIES

No.	Subject title	Subject type A/B	Subject code	1 <sup>st</sup> semester					2 <sup>nd</sup> semester				
				C	S	L/ P	Evaluation mode	ECTS credits	C	S	L/ P	Evaluation mode	ECTS credits
1	<a href="#">Electronics</a>	Mandat./fundamental	FC201	2	-	2	Coll	4	-	-	-	-	-
2	<a href="#">Theoretical Mechanics</a>	Mandat./fundamental	FC202	3	3	-	Ex	7	-	-	-	-	-
3	<a href="#">Thermodynamics</a>	Mandat./fundamental	FC203	2	2	-	Ex	5	-	-	-	-	-
4	<a href="#">Electrodynamics</a>	Mandat./fundamental	FC204	4	4	-	Ex	9	-	-	-	-	-
5	<a href="#">Quantum Mechanics I</a>	Mandat./fundamental	FC205	2	2	-	Ex	5	-	-	-	-	-
6	<a href="#">Quantum Mechanics II</a>	Mandat./fundamental	FC206	-	-	-	-	-	2	2	-	Coll	4
7	<a href="#">Statistical Physics</a>	Mandat./fundamental	FC207	-	-	-	-	-	2	2	-	Coll	4
8	<a href="#">Solid physics and semiconductors</a>	Mandat./fundamental	FC208	-	-	-	-	-	4	-	3	Ex	8
9	<a href="#">Physics of the Atom and Molecule</a>	Mandat./fundamental	FC209	-	-	-	-	-	4	-	3	Ex	8
10	<a href="#">Nuclear Physics</a>	Mandat./fundamental	FC210	-	-	-	-	-	2	-	2	Ex	5
11	Practice 2weeks x 40hours=80hours	Mandat./specialty	FF211	-	-	-	-	-	-	-	-	CA	1

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CURRICULA – 3rd YEAR OF STUDIES

No.	Subject title	Subject type A/B	Subject code	1 <sup>st</sup> semester					2 <sup>nd</sup> semester				
				C	S	L/P	Evaluation mode	ECTS credits	C	S	L/P	Evaluation mode	ECTS credits
1	<a href="#">Physics of fluids</a>	Mandat./specialty	FF301	2	-	2	Ex	5	-	-	-	-	-
2	<a href="#">Spectroscopy and lasers</a>	Mandat./specialty	FF302	2	-	2	Ex	5	-	-	-	-	-
3	<a href="#">Physics and progress of scientific knowledge</a>	Mandat./specialty	FF303	2	2	-	Coll	4	-	-	-	-	-
4	<a href="#">Introduction to field theory</a>	Mandat./specialty	FF304	3	3	-	Ex	6	-	-	-	-	-
5	<a href="#">Plasma Physics</a>	Mandat./specialty	FF305	-	-	-	-	-	2	-	2	Ex	4
6	<a href="#">Elementary particles</a>	Mandat./specialty	FF306	-	-	-	-	-	3	2	-	Ex	5
7	Practice for elaboration of bachelor thesis 2weeks x 30hours=60hours	Mandat./fundamental	FC307	-	-	-	-	-	-	-	-	CA	1
8	<a href="#">Optional discipline 1*</a>	Opt./ specialty	-	2	2	(2)	Coll	5	-	-	-	-	-
9	<a href="#">Optional discipline 2*</a>	Opt./ specialty	-	2	2	(2)	Coll	5	-	-	-	-	-
10	<a href="#">Optional discipline 3*</a>	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
11	<a href="#">Optional discipline 4*</a>	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
12	<a href="#">Optional discipline 5*</a>	Opt./ specialty	-	-	-	-	-	-	2	2	(2)	Coll	5
13	<a href="#">Optional discipline 6*</a>	Opt./ specialty	-	-	-	-	-	-	2	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	<a href="#">Constrained dynamical systems</a>	FF308	2	2	-	11	<a href="#">Nonlinear optics</a>	FF318	2	-	2
2	<a href="#">Nonlinear dynamics</a>	FF309	2	2	-	12	<a href="#">Microwaves</a>	FF319	2	-	2
3	<a href="#">Celestial mechanics</a>	FF310	2	2	-	13	<a href="#">Optical fibers</a>	FF320	2	-	2
4	<a href="#">Symmetries in physics</a>	FF311	2	2	-	14	<a href="#">Liquid crystals</a>	FF321	2	-	2
5	<a href="#">Stochastic processes in physics</a>	FF312	2	2	-	15	<a href="#">Experimental techniques of thin film deposition</a>	FF322	2	-	2
6	<a href="#">Hamiltonian quantization methods</a>	FF313	2	2	-	16	<a href="#">Nanomaterials. Nanotechnologies</a>	FF323	2	-	2
7	<a href="#">Gauge fields</a>	FF314	2	2	-	17	<a href="#">Physics of dielectric materials</a>	FF324	2	-	2
8	<a href="#">Introduction to gravitation theory</a>	FF315	2	2	-	18	<a href="#">Microstructure analyzing techniques</a>	FF325	2	-	2
9	<a href="#">Quantum electrodynamics</a>	FF316	2	2	-	19	<a href="#">Phase transitions</a>	FF326	2	-	2
10	<a href="#">Anomalous transport in plasma physics</a>	FF317	2	2	-	20	<a href="#">Introduction to physics of super-conductive materials</a>	FF327	2	-	2

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