

Group of Study: PHYSICS  
 Department of General Physics (A)

### TEACHING CURRICULUM

No.	COURSE	Year	Winter	Summer
1	Mechanics and thermodynamics	I	4+8	4+6
2	Mathematics I	I	4+4	4+4
3	Data Treatment in Physics	I	2+3	
4	Chemistry	I		4+3
Total:			25	25
5	Electromagnetism and Optics	II	4+6	4+6
6	Mathematics II	II	4+4	4+4
7	Introduction to Mathematical Physics	II	2+2	
8	Theoretical Physics I	II		3+2
9	Sociology	II	2+0	2+0
10	English language I	II	1+1	1+1
Total:			26	27
11	Theoretical Physics II	III	6+4	
12	Theoretical Physics III	III	2+2	2+2
13	Electronics	III	4+5	
14	Introductory Atomic Physics	III		4+5
15	Teaching Aids in Physics	III		4+4
16	Introductory Astrophysics	III		2+2
17	History and Philosophy of Physics	III	3+0	
18	Psychology	III	2+0	
19	Pedagogy	III		2+0
20	English language II	III	1+1	1+1
Total:			30	29
21	Elementary Particle Physics	IV	4+5	
22	Metrology	IV	2+3	
23	Computers in Physics Education	IV	2+2	
24	Condensed Matter Physics	IV		4+3
25	Physics of Ionized Gases and Lasers	IV		3+2
26	Methodology of Physics Education	IV	2+7	2+5
27	Degree Thesis	IV	0+3	0+3
Total:			30	30

Group of Study PHYSICS  
Department of Theoretical and Experimental Physics (B)

TEACHING CURRICULUM

No.	COURSE	Year	Winter	Summer
1	Physical Mechanics and Thermophysics	I	4+6	4+8
2	Mathematics I B	I	4+4	4+4
3	Data Treatment in Physics	I	2+3	
4	Introduction in Chemistry	I		2+1
5	English Language 1	I	1+1	1+1
Total:			25	25
6	Mathematics II B	II	4+4	4+4
7	Electromagnetism	II	4+6	
8	Mathematical Physics I	II	4+3	
9	Waves and Optics	II		4+5
10	Theoretical Mechanics	II		4+4
11	Philosophy of Physics	II	2+1	2+1
12	English Language 2	II	1+1	1+1
Total:			30	30
13	Quantum Mechanics	III	3+2	3+2
14	Electrodynamics	III	2+2	2+2
15	Statistical Physics	III	2+2	2+2
16	Mathematical Physics II	III	4+4	
17	Physical Electronics	III	4+5	
18	Physics of Atoms	III		4+6
Total:			30	29
20	Nuclear Physics	IV	2+3	2+1t 2+3e
21	Molecular Physics	IV	4+5	
22T	Quantum Electrodynamics	IV	2+2	2+2
22E	Quantum Theory of Fields	IV	2+2	
23T	Quantum Statistical Physics	IV	2+2	2+2
23E	Quantum Optics	IV	2+2	
24T	Mathematical Physics III	IV	3+2	
24E	Metrology	IV	2+3	
25T	Theory of Condensed Matter	IV		4+2
25E	Physics of Condensed Matter	IV		4+3
26T	Theoretical Plasma Physics	IV		3+2
26E	Physics of Ionized Gases	IV		2+3
27T	Theory of Elementary Particles	IV		3+2
27E	Elementary Particle Physics	IV		2+3
28	Degree Thesis	IV	0+3	0+3
Total:			30	30T

Group of Study PHYSICS  
 Department of Applied Physics and Informatics (C)

TEACHING CURRICULUM

No.	COURSE	Year	Winter	Summer
1	Physical Mechanics and Thermophysics	I	4+6	4+6
2	Mathematics I	I	4+4	4+4
3	Data Treatment in Physics	I	2+3	
4	Introduction to Chemistry	I		2+1
5	Computer Programming	I		2+1
6	English Language 1	I	1+1	1+1
Total:			25	26
7	Mathematics II	II	4+4	4+4
8	Electromagnetism	II	4+6	
9	Introduction to Mathematical Physics	II	2+2	
10	Numerical Methods in Physics	II	2+1	
11	Waves and Optics	II		4+5
12	Theoretical Physics I	II		3+2
13	Philosophy of Physics	II	2+1	2+1
14	English Language 2	II	1+1	1+1
Total:			30	27
15	Theoretical Physics II	III	6+4	
16	Theoretical Physics III	III	2+2	2+2
17	Physical Electronics	III	4+5	
18	Introduction to Computer Technique	III	2+2	
19	Introduction to Atomic Physics	III		4+5
20	Physical Elements in Electrical Engineering	III		2+2
21	Electrical Measurements	III		2+3
22	Thermotechnique	III		2+2
23	Automatic Control	III		2+2
Total:			27	30
24	Physics of Elementary Particles	IV	4+5	
25	Introduction to Physics of Ionized Gases	IV	2+1	
26	Applied Spectroscopy	IV	2+3	
27	Quantum Optics	IV	2+2	
28	Energetics	IV	2+0	
29	Environmental Physics	IV		2
31	Physics of Condensed Matter	IV		4
32	Metrology and Standards	IV		2
33	Material Testing	IV		3
34	Informational Systems	IV		2
35	Degree Thesis	IV	0+4	
Total:			27	30

Group of Study: METEOROLOGY

TEACHING CURRICULUM

No.	COURSE	Year	Winter	Summer
1	Mechanics and Thermodynamics	I	4+6	4+6
2	Mathematics I	I	4+4	4+4
3	Introduction to Mathematical Physics	I	2+2	
4	Analytical Geometry	I		2+2
Total:			25	25
5	Physics II	II	4+6	
6	Meteorology	II	4+2	
7	Mathematics II	II	4+4	4+4
8	Partial Differential Equations	II	2+2	2+2
9	Physics of Continua	II		4+3
10	Meteorology and Ecology	II		3+3
11	English Language 1	II	1+1	1+1
Total:			30	27
12	Meteorological Information	III	2+5	
13	Meteorological Measurements	III	3+3	
14	Dynamical Meteorology I	III	5+4	
15	Dynamics of Clouds	III	3+2	
16	Statistics in Meteorology	III		4+3
17	Dynamical Meteorology II	III		4+4
18	Modeling of Atmosphere I	III		4+3
19	Micrometeorology	III		3+3
20	English Language 2	III	1+1	1+1
Total:			29	30
21	Modeling of Atmosphere II	IV	3+3	
22	Analysis of Weather	IV	4+4	
23	Climatology	IV	3+3	
24	Microphysics of Clouds	IV		3+4
25	Modification of Weather	IV		2+1
26	Applied Meteorology	IV		4+3
27	Weather Forecast	IV		4+4
28	History and Philosophy of Natural Sciences	IV	2+1	
29	Degree Thesis	IV	0+4	0+4
Total:			27	29

Group of Study: PHYSICS AND INTRODUCTION IN TECHNICAL EDUCATION (D)

TEACHING CURRICULUM

No.	COURSE	Year	Winter	Summer
1	General Physics	I	4+6	4+6
2	Mathematics	I	4+4	4+4
4	Technical Drawing	I	2+2	
5	Inorganic Chemistry	I		4+3
Total:			27	25
6	Physics II	II	4+5	4+5
7	Introduction to Chemical Technology	II	3+0	
8	Video Technique	II	2+3	
9	History and Philosophy of Physics	II	3+0	
10	Mechanical Engineering	II		4+4
11	Physical Elements of Thermotechnique	II		2+0
12	Psychology	II	2+0	
13	Pedagogy	II		2+0
14	Sociology	II	2+0	2+0
15	English Language 1	II	1+1	1+1
Total:			26	25
16	Introduction to Classical Theoretic Physics	III	3+2	3+2
17	Introduction to Atomic and Quantum Physics	III	3+2	3+2
18	Physical Electronics	III	4+5	
19	Electrical Engineering	III		4+4
20	Teaching Aids in Technical Education	II	1+2	1+2
21	Teaching Aids in Physics	III	1+2	1+2
22	English Language 2	III	1+1	1+1
Total:			27	26
23	Introduction to High Energy Physics	IV	2+2	2+2
24	Physics of Materials	IV	3+2	
25	Environmental Physics	IV	2+0	
26	Energetics	IV	2+0	
27	Computers in Physical Education	IV	2+2	
28	Physics of Ionized Gases and Lasers	IV		3+2
29	Methodology of Physics Education	IV	2+2	2+4
30	Methodology of Technical Education	IV	2+2	2+4
31	Degree Thesis	IV	0+2	
Total:			27	25