

No	Name of Course	Course Code	Credit (SKS)	Lecture form (SKS)	Practical form (SKS)	Lecture form (ECTS)	Practical form (ECTS)	Credit (ECTS)
(1)	(2)	(3)	(4)	(5)	(6)	(7) = (5) * 1.66	(8) = (6) * 1.66	(9) = (7) + (8)
1	Religion	UNU 100X	2	2		3.32		3.32
2	Calculus I	MMM 1101	3	3		4.98		4.98
3	General Chemistry I	MKK 1101	3	3		4.98		4.98
4	Programming	MII 1201	3	3		4.98		4.98
5	Basic Physics I	MFF 1011	3	3		4.98		4.98
6	Measurement Technique in Physics	MFF 1061	2	2		3.32		3.32
7	Basic Chemistry Experiment I	MKK 1111	1		1	0	1.66	1.66
8	Mathematical Physics I	MFF 1020	3	3		4.98		4.98
9	Basic Physics Experiments I	MFF 1013	1		1	0	1.66	1.66
10	Basic Physics II	MFF 1012	3	3		4.98		4.98
11	Pancasila	UNU 1010	2	2		3.32		3.32
12	Numerical Method	MFF 1024	2	2		3.32		3.32
13	Electronics	MFF 1850	3	3		4.98		4.98
14	Basic Physics Experiments II	MFF 1014	1		1	0	1.66	1.66
15	Mechanics I	MFF 1401	2	2		3.32		3.32
16	Thermodynamics	MFF 1053	3	3		4.98		4.98
17	Wave	MFF 1405	2	2		3.32		3.32
18	Mathematical Physics II	MFF 1021	3	3		4.98		4.98
19	Electromagnetics I	MFF 2415	2	2		3.32		3.32
20	Computational Physics	MFF 2027	2	2		3.32		3.32
21	Electronics Experiment**)	MFF 2851	1		1	0	1.66	1.66
22	Numerical Method Experiments**)	MFF 2028	1		1	0	1.66	1.66
23	Quantum Physics I	MFF 2034	3	3		4.98		4.98
24	Mathematical Physics III	MFF 2024	3	3		4.98		4.98
25	Mechanics II	MFF 2402	2	2		3.32		3.32
26	Relativity Theory	MFF 2031	2	2		3.32		3.32
27	Statistical Physics	MFF 2051	3	3		4.98		4.98
28	Laboratory Internship	MFF 2062	1		1	0	1.66	1.66
29	Atomic and Molecular Physics	MFF 2310	3	3		4.98		4.98
30	Electromagnetics II	MFF 2410	2	2		3.32		3.32

31	Modern of Physics Experiments**)	MFF 2033	1		1	0	1.66	1.66
32	Quantum Physics II	MFF 2035	3	3		4.98		4.98
33	Solid State Physics I	MFF 2601	2	2		3.32		3.32
34	Nuclear and Particle Physics I	MFF 2205	2	2		3.32		3.32
35	Atomic and Molecular Physics Experiments	MFF 2313	1		1	0	1.66	1.66
36	Civic	UNU 3000	2	2		3.32		3.32
37	Research Methodology and Scientific Communication**)	MFF 2060	3	3		4.98		4.98
38	Philosophy of Physics	MFF 3015	2	2		3.32		3.32
39	Modern Optics	MFF 3411	2	2		3.32		3.32
40	Nuclear and Particle Physics II	MFF 3206	2	2		3.32		3.32
41	Solid State Physics II	MFF 3608	2	2		3.32		3.32
42	Nuclear Physics Experiments**)	MFF 3204	1		1	0	1.66	1.66
43	Solid State Physics Experiments**)	MFF 3602	1		1	0	1.66	1.66
44	Community Service Program**)	UNU 4500	3	3		4.98		4.98
45	Final Project A**)	MFF 4011	2		2	0	3.32	3.32
46	Final Project B**)	MFF 4011	4		4	0	6.64	6.64
47	Introduction to Geophysics	MFG 1101	2	2		3.32		3.32
48	Metrology and Calibration of Physics	MFF 2061	3	3		4.98		4.98
49	Instrumentation System	MFF 2071	2	2		3.32		3.32
50	Sensor System	MFF 2853	2	2		3.32		3.32
51	Physics of Imaging	MFF 2873	2	2		3.32		3.32
52	Celestial Mechanics	MFF 2953	2	2		3.32		3.32
53	Mathematical and Theoretical Physics I	MFF 2029	2	2		3.32		3.32
54	Physics of Complex and Nonlinear Systems	MFF 3053	2	2		3.32		3.32
55	Nuclear and Particle Detection Method	MFF 3291	2	2		3.32		3.32
56	Introduction to Laser Physics	MFF 3423	2	2		3.32		3.32
57	Medical Physics	MFF 3701	2	2		3.32		3.32
58	Microwave	MFF 3843	2	2		3.32		3.32
59	Tomography Physics	MFF 3871	2	2		3.32		3.32
60	Environmental Physics	MFF 3891	2	2		3.32		3.32
61	Quantum Mechanics	MFF 4033	2	2		3.32		3.32
62	Liquid Crystal Physics and Polymers	MFF 4611	2	2		3.32		3.32

63	Introduction to Econophysics	MFF 4893	2	2		3.32		3.32
64	Introduction to Astrophysics and Cosmology	MFF 4043	3	3		4.98		4.98
65	Internship	MFF 4891	2		2	0	3.32	3.32
66	Graphical Methods in Physics	MFF 1064	2	2		3.32		3.32
67	Simulation and Visualization in Physics	MFF 1528	2	2		3.32		3.32
68	Microcontroller and Interfacing	MFF 2070	2	2		3.32		3.32
69	Atomic and Molecular Detection Method	MFF 2322	2	2		3.32		3.32
70	Science and Religion	MFF 3002	2	2		3.32		3.32
71	Selected Topics in Computational Physics	MFF 3024	2	2		3.32		3.32
72	Mathematical and Theoretical Physics II	MFF 3030	2	2		3.32		3.32
73	Introduction to Particle Physics	MFF 3114	2	2		3.32		3.32
74	Reactor Physics	MFF 3284	2	2		3.32		3.32
75	Radiation Protection	MFF 3288	2	2		3.32		3.32
76	Modern Acoustics	MFF 3436	2	2		3.32		3.32
77	Introduction to Nanoscience	MFF 3680	2	2		3.32		3.32
78	Selected Topics in Material Physics	MFF 3810	2	2		3.32		3.32
79	Materials Analysis Method	MFF 3812	3	3		4.98		4.98
80	Computational Material Physics	MFF 3820	3	3		4.98		4.98
81	Biophysics	MFF 3872	2	2		3.32		3.32
82	Radiographic of Physics	MFF 3876	2	2		3.32		3.32
83	Energy	MFF 3882	2	2		3.32		3.32
84	Science and Technology Entrepreneurship	MFF 3892	2	2		3.32		3.32
85	Advanced Quantum Mechanics	MFF 4034	2	2		3.32		3.32
	Total			164				302.12