

No	Course Code	Name of Course	Credit (SKS)	Attitude (PLO 1)	Knowledge (CPL 2)	General Skills (CPL 3)	Special Skills (CPL 4)	Long Life Learning (CPL 5)
1	UNU 100X	Religion	2	S				
2	MMM 1101	Calculus I	3		M			
3	MKK 1101	General Chemistry I	3	M			L	
4	MII 1201	Programming	3		M			
5	MFF 1011	Basic Physics I	3		M			M
6	MFF 1061	Measurement Technique in Physics	2		M			M
7	MKK 1111	Basic Chemistry Experiment I	1		M	L	L	
8	MFF 1020	Mathematical Physics I	3		M		L	
9	MFF 1013	Basic Physics Experiments I	1		S	L	M	M
10	MFF 1012	Basic Physics II	3		M			M
11	UNU 1010	Pancasila	2		S			
12	MFF 1024	Numerical Method	2		L		L	L
13	MFF 1850	Electronics	3		M			M
14	MFF 1014	Basic Physics Experiments II	1		S		M	M
15	MFF 1401	Mechanics I	2		M			M
16	MFF 1053	Thermodynamics	3		M			M
17	MFF 1405	Wave	2		M			M
18	MFF 1021	Mathematical Physics II	3		L		L	
19	MFF 2415	Electromagnetics I	2		M			M
20	MFF 2027	Computational Physics	2		M		L	L
21	MFF 2851	Electronics Experiment**)	1		S	L	M	M
22	MFF 2028	Numerical Method Experiments**)	1	L	M	L	L	L
23	MFF 2034	Quantum Physics I	3		M			M
24	MFF 2024	Mathematical Physics III	3		L		L	
25	MFF 2402	Mechanics II	2		M			M
26	MFF 2031	Relativity Theory	2		M		L	M
27	MFF 2051	Statistical Physics	3		M			M
28	MFF 2062	Laboratory Internship**)	1	M	M	M	M	M
29	MFF 2310	Atomic and Molecular Physics	3		M			M
30	MFF 2410	Electromagnetics II	2		M			M
31	MFF 2033	Modern Physics Experiments**)	1	L	S		M	M
32	MFF 2035	Quantum Physics II	3		M			L

33	MFF 2601	Solid State Physics I	2		M			M
34	MFF 2205	Nuclear and Particle Physics I	2		M			M
35	MFF 2313	Atomic and Molecular Physics Experiments	1		S	M	L	M
36	UNU 3000	Civic	2	M				
37	MFF 2060	Research Methodology and Scientific Communication**)	3			M		S
38	MFF 3015	Philosophy of Physics	2	M	S	L		M
39	MFF 3411	Modern Optics	2		M			M
40	MFF 3206	Nuclear and Particle Physics II	2		M			M
41	MFF 3608	Solid State Physics II	2		M			M
42	MFF 3204	Nuclear Physics Experiments**)	1		S	M	M	M
43	MFF 3602	Solid State Physics Experiments**)	1		M			M
44	UNU 4500	Community Service Program**)	3	M				
45	MFF 4011	Final Project A**)	2		M	M		M
46	MFF 4011	Final Project B**)	4		M	M	M	M
47	MFG 1101	Introduction to Geophysics	2		L	L		
48	MFF 2061	Metrology and Calibration in Physics	2		M			M
49	MFF 2071	Instrumentation System	2		M			L
50	MFF 2853	Sensor System	2		M			L
51	MFF 2873	Physics of Imaging	2		L			L
52	MFF 2953	Celestial Mechanics	2		M			L
53	MFF 2029	Mathematical and Theoretical Physics I	2		M	M		L
54	MFF 3053	Physics of Complex and Nonlinear Systems	2		M			L
55	MFF 3291	Nuclear and Particle Detection Method	2		M			L
56	MFF 3423	Introduction to Laser Physics	2		M			L
57	MFF 3701	Medical Physics	2		M			L
58	MFF 3843	Microwave	2		M			L
59	MFF 3871	Tomography Physics	2		L			L
60	MFF 3891	Environmental Physics	2		M			M
61	MFF 4033	Quantum Mechanics	2		M			M
62	MFF 4611	Liquid Crystal Physics and Polymers	2		M			L
63	MFF 4893	Introduction to Econophysics	2		M			L
64	MFF 4043	Introduction to Astrophysics and Cosmology	2		S		M	M
65	MFF 4891	Internship	2		M		M	M
66	MFF 1064	Graphical Methods in Physics	2		M			L

67	MFF 1528	Simulation and Visualization in Physics	2		L		L	M
68	MFF 2070	Microcontroller and Interfacing	2		M			L
69	MFF 2322	Atomic and Molecular Detection Method	2		M			L
70	MFF 3002	Science and Religion	2	S				
71	MFF 3024	Selected Topics in Computational Physics	2		M			L
72	MFF 3030	Mathematical and Theoretical Physics II	2		M	M		L
73	MFF 3114	Introduction to Particle Physics	2		M			L
74	MFF 3284	Reactor Physics	2		M			L
75	MFF 3288	Radiation Protection	2		M			L
76	MFF 3436	Modern Acoustics	2		M			L
77	MFF 3680	Introduction to Nanoscience	2		M			
78	MFF 3810	Selected Topics in Material Physics	2		M			L
79	MFF 3812	Materials Analysis Method	3		L			M
80	MFF 3820	Computational Material Physics	3		L			L
81	MFF 3872	Biophysics	2		L			L
82	MFF 38776	Radiographic Physics	2		M			L
83	MFF 3882	Energy	2		L			L
84	MFF 3892	Science and Technology Entrepreneurship	2					L
85	MFF 4034	Advanced Quantum Mechanics	2		M	M		M