

Study Plan of the Master Program

- **Credit hours needed for completion of the program**

Compulsory Courses	15	Elective Courses	12
Thesis or project	6	Total Credits	33

- **List of Courses**

- **Compulsory Courses**

No.	Course Code	Course Title	Course Type	Credits		
				Theory	Practical	Cred
1	600 PHYS	Mathematical Physics	Theory	3	-	3
2	601 PHYS	Classical Mechanics	Theory	3	-	3
3	602 PHYS	Classical Electrodynamics	Theory	3	-	3
4	603 PHYS	Quantum Mechanics	Theory	3	-	3
5	604 PHYS	Statistical Mechanics	Theory	3	-	3

- **Elective Courses**

No.	Course Code	Course Title	Course Type	Credits		
				Theory	Practical	Cred.
1	610PHYS	Computational Physics	Theory/Laboratory	2	2	3
2	611PHYS	Physics Laboratory	Laboratory	-	6	3
3	620PHYS	Atomic and Molecular Physics	Theory	3	-	3
4	621PHYS	Quantum Optics	Theory	3	-	3
5	622PHYS	Plasma Physics	Theory	3	-	3
6	640PHYS	Solid State Physics	Theory	3	-	3
7	641PHYS	Materials Science	Theory	3	-	3
8	642PHYS	Magnetism and Superconductivity	Theory	3	-	3
9	650PHYS	Nuclear Structure and Spectroscopy	Theory	3	-	3
10	651PHYS	Radiation Physics	Theory	3	-	3
11	660PHYS	Quantum Field Theory	Theory	3	-	3
12	661PHYS	Particle Physics	Theory	3	-	3
13	665PHYS	Selected Topics in Specialized Physics	Theory	3	-	3
14	695PHYS	Research Seminar	Research	-	-	3

○ Thesis or project

Course Code	Course Title	Credits
699PHYS	Thesis	6

Total Credits 33