

Standard Master program in Physics (Thermal Physics)

(Dated October 29th, 2015)

The total minimum required number of credits:	67 credits
- General courses (required):	07 credits
- Fundamental and core courses:	42 credits
+ Required:	21 credits
+ Elective:	21/42 credits
- Master thesis:	18 credits

Available curriculum

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I	General education knowledge		7				
1	PHI5001	<i>Philosophy</i>	3	30	15		
2	ENG5001	<i>General English</i>	4	30	30		
II	Basic and fundamental education knowledge		42				
<i>II.1.</i>	<i>Required</i>		<i>21</i>				
<i>II.1.a</i>	Basic courses		12				
3	ENG6001	<i>English for Academic Purposes</i>	3	40		5	
4	PHY6000	<i>Mathematics for Physics</i>	3	40		5	
5	PHY6001	<i>Quantum Physics</i>	3	40		5	
6	PHY6002	<i>Solving Physics Problems using Matlab</i>	3	30	15		
<i>II.1.b</i>	Fundamental courses		9				
7	PHY6061	<i>Solid state physics</i>	3	40		5	PHY6001
8	PHY6062	<i>Speciality practice</i>	3	15	30		PHY6061

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
9	PHY6063	<i>Interactions in rare-earth intermetallic compounds</i>	3	40		5	PHY6002 PHY6061
II.2.	<i>Elective</i>		21/42				
II.2.a	Basic courses		12/24				
10	PHY6003	<i>Measurement of Physical Quantities</i>	3	30	15		
11	PHY6004	<i>Nano physics</i>	3	40		5	
12	PHY6005	<i>History of Physics</i>	3	40		5	
13	PHY6006	<i>Advanced Astronomy</i>	3	40		5	
14	PHY6007	<i>Statistics and data analysis for Physics</i>	3	30	15		
15	PHY6008	<i>Topics in Modern Physics</i>	3	40		5	
16	PHY6009	<i>Physics of Earth</i>	3	15		30	
17	PHY6010	<i>Seminar in Research Topics</i>	3	15		30	
II.2.b	Fundamental courses		9/18				
18	PHY6064	<i>Low temperature superconductors</i>	3	40		5	PHY6002 PHY6061
19	PHY6065	<i>Methods of crystal structure analysis</i>	3	40		5	PHY6061
20	PHY6066	<i>Josephson effect and its application</i>	3	40		5	PHY6002 PHY6064
21	PHY6067	<i>Theory of magnetism in interacting electron system</i>	3	40		5	PHY6063
22	PHY6068	<i>High temperature superconductors and their applications</i>	3	40		5	PHY6061 PHY6064

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
23	PHY6069	<i>Physics of the collective phenomena at low temperature</i>	3	40		5	PHY6061
III		<i>Master thesis</i>	18				
	Total		67				