

Standard Master program in Physics
(Radio Physics and Electronics Engineering)

(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	0	
2.	ENG5001	<i>General English</i>	4	30	30	0	
II	Basic and fundamental education knowledge		42				
II.1.	Required		21				
II.1.a	Basic courses		12				
3.	ENG6001	<i>English for Academic Purposes</i>	3	40	0	5	
4.	PHY6000	<i>Mathematics for Physics</i>	3	40	0	5	
5.	PHY6001	<i>Quantum Physics</i>	3	40	0	5	
6.	PHY6002	<i>Solving Physics Problems using Matlab</i>	3	30	15	0	
II.1.b	Fundamental courses		9				

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
7.	PHY6031	<i>Advanced Digital Signal Processing</i>	3	30	15	0	
8.	PHY6032	<i>Satellite Communication</i>	3	45	0	0	
9.	PHY6033	<i>Advanced Laboratory Practice</i>	3	0	45	0	PHY6003
II.2.	<i>Elective</i>		<i>21/42</i>				
II.2.a	<i>Basic courses</i>		<i>12/24</i>				
10.	PHY6003	<i>Measurement of Physical Quantities</i>	3	30	15	0	
11.	PHY6004	<i>Nano physics</i>	3	40	0	5	
12.	PHY6005	<i>History of Physics</i>	3	40	0	5	
13.	PHY6006	<i>Advanced Astronomy</i>	3	40	0	5	
14.	PHY6007	<i>Statistics and data analysis for Physics</i>	3	30	15	0	
15.	PHY6008	<i>Topics in Modern Physics</i>	3	40	0	5	
16.	PHY6009	<i>Physics of Earth</i>	3	15	0	30	
17.	PHY6010	<i>Seminar in Research Topics</i>	3	15	0	30	
II.2.b	<i>Fundamental courses</i>		<i>9/18</i>				
18.	PHY6034	<i>Modern Ultrasonics</i>	3	30	15	0	
19.	PHY6035	<i>Nonlinear Oscillations</i>	2	30	0	0	
20.	PHY6036	<i>Antennas and Wave Propagation</i>	3	30	15	0	PHY6003
21.	PHY6037	<i>Image Processing</i>	2	15	15	0	
22.	PHY6038	<i>Advanced Digital Communication</i>	2	20	10	0	
23.	PHY6039	<i>Microwave Engineering</i>	3	30	15	0	
24.	PHY6040	<i>Sensors: Principles and Applications</i>	3	30	15	0	
III		<i>Master thesis</i>	18				

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				Lecture	Practice	Self-study	
Total			67				