Standard Master program in Physics (Nuclear 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	*Philosophy*	3	30	15	0	
2.	ENG5001	*General English*	4	30	30	0	
II	**Basic and fundamental education knowledge**		**42**				
II.1.	***Required***		***21***				
II.1.a	**Basic courses**		***12***				
3.	ENG6001	*English for Academic Purposes*	***3***	40	0	5	
4.	PHY6000	*Mathematics for Physics*	3	40	0	5	
5.	PHY6001	*Quantum Physics*	3	40	0	5	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
6.	PHY6002	*Solving Physics Problems using Matlab*	3	30	15	0	
II.1.b	**Fundamental courses**		***9***				
7.	PHY6041	*Nuclear Physics I*	2	24	6	0	
8.	PHY6043	*Nuclear Experimental Physics Methods*	2	25	5	0	PHY6041
9.	PHY6049	*Radiation Protection and Nuclear Safety*	3	36	9	0	PHY6041
10.	PHY6044	*Nuclear Physics II*	2	23	0	7	
II.2.			***21/42***				
II.2.a	**Basic courses**		***12/24***				
11.	PHY6003	*Measurement of Physical Quantities*	3	30	15	0	
12.	PHY6004	*Nano physics*	3	40	0	5	
13.	PHY6005	*History of Physics*	3	40	0	5	
14.	PHY6006	*Advanced Astronomy*	3	40	0	5	
15.	PHY6007	*Statistics and data analysis for Physics*	3	30	15	0	
16.	PHY6008	*Topics in Modern Physics*	3	40	0	5	
17.	PHY6009	*Physics of Earth*	3	15	0	30	
18.	PHY6010	Seminar in Research Topics	3	15	0	30	
II.2.b	**Fundamental courses**		***9/18***				
19.	PHY6045	*Nuclear Structure*	3	30	0	15	
20.	PHY6046	*Accelerator*	3	36	9	0	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
21.	PHY6047	*Practice on Nuclear Physics*	3	15	15	15	
22.	PHY6048	*Nuclear Electronics*	3	33	9	3	
23.	PHY6042	*Nuclear Reaction*	3	36	9	0	
24.	PHY6050	*Nuclear Analytical Methods*	3	36	0	9	PHY6041 PHY6043
III		***Master thesis***	**18**				
Total			**67**				