Standard Master program in Physics (Optics)

(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: **21/45 credits**
- Master thesis: **18 credits**

Available curriculum

No	Code	Subjects	Credtits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I	**General courses**		**7**				
1	PHI5001	*Philosophy*	3	30	15	0	
2	ENG5001	*General English*	4	30	30	0	
II	**Fundamental and core courses**		**42**				
II.1.	***Required***		***21***				
II.1.a	**Fundamental 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	
6	PHY6002	*Solving Physics Problems using Matlab*	3	30	15	0	
II.1.b	**Core courses**		***9***				
7	PHY6051	*Nonlinear optics*	3	40	0	5	
8	PHY6052	*Advanced laser physics*	3	40	0	5	

No	Code	Subjects	Credtits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
9	PHY6053	*Material optics*	3	40	0	5	
II.2.	***Elective***		***21/45***				
II.2.a	**Fundamental courses**		***12/24***				
10	PHY6003	*Measurement of Physical Quantities*	3	30	15	0	
11	PHY6004	*Nano physics*	3	40	0	5	
12	PHY6005	*History of Physics*	3	40	0	5	
13	PHY6006	*Advanced Astronomy*	3	40	0	5	
14	PHY6007	*Statistics and data analysis for Physics*	3	30	15	0	
15	PHY6008	*Topics in Modern Physics*	3	40	0	5	
16	PHY6009	*Physics of Earth*	3	15	0	30	
17	PHY6010	*Seminar in Research Topics*	3	15	0	30	
II.2.b	**Core courses**		***9/21***				
18	PHY6055	*Advanced atomic spectroscopy*	3	40	0	5	
19	PHY6056	*Advanced molecular spectroscopy*	3	40	0	5	
20	PHY6057	*Speciality practice*	3	5	40	0	
21	PHY6058	*Laser engineering*	3	40	0	5	
22	PHY6054	*Modern Optics*	3	40	0	5	
23	PHY6060	*Photoluminescence*	3	40	0	5	
24	PHY6081	*Photonis*	3	40	0	5	
III		***Master thesis***	**18**				
Total			**67**				