

**Standard Master program in Physics
(Physics of the Earth)**

(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 courses		7				
1.	PHI5001	<i>Philosophy</i>	3	30	15	0	
2.	ENG5001	<i>General English</i>	4	30	30	0	
II	Fundamental and core courses		42				
II.1.	Required		21				
II.1.a	Fundamental 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	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
6.	PHY6002	<i>Solving Physics Problems using Matlab</i>	3	30	15	0	
II.1.b	Core courses		9				
7.	PHY6071	<i>Gravity and gravity prospecting</i>	3	30	10	5	PHY6000
8.	PHY6072	<i>Seismology</i>	3	30	10	5	PHY6000
9.	PHY6073	<i>Radioactive and Nuclear geophysics</i>	3	30	10	5	PHY6000
II.2.	Elective		21/42				
II.2.a	Fundamental courses		12/24				
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	Core courses		9/18				
18.	PHY6074	<i>Geoelectrical methods</i>	3	25	15	5	PHY6000
19.	PHY6075	<i>Geomagnetic and Geomagnetic prospecting</i>	3	30	10	5	PHY6000
20.	PHY6076	<i>Applied Geophysics</i>	2	20	5	5	PHY6000

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				Lecture	Practice	Self-study	
21.	PHY6077	<i>Geology for Geophysicist</i>	2	15	10	5	PHY 6009
22.	PHY6078	<i>Logging methods</i>	3	30	10	5	PHY6000 PHY 6072 PHY 6073
23.	PHY6079	<i>Geothermics</i>	2	15	10	5	PHY6000
24.	PHY6080	<i>Statistical processing of geophysics data</i>	3	30	5	10	PHY6000 PHY6007
III		<i>Master thesis</i>	18				
Total			67				