

**Standard Master program in Mathematics
(Geometry and Topology)**

(Dated October 29th, 2015)

The total minimum required number of credits is:	64 credits
- General courses (required):	07 credits
- Fundamental and core courses:	39 credits
+ Required:	18 credits
+ Elective:	21/48 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		
2.	ENG5001	<i>General English</i>	4	30	30		
II	Fundamental and core courses		39				
II.1.	Required		18				
3.	ENG6001	<i>English for Academic Purposes</i>	3	45			
4.	MAT6002	<i>Advanced functional analysis</i>	3	45			
5.	MAT6100	<i>Partial differential equations</i>	3	45			
6.	MAT6007	<i>Seclected topics in Linear algebra</i>	3	45			
7.	MAT6003	<i>Algebraic Topology</i>	3	45			
8.	MAT6005	<i>Defferential Geometry</i>	3	45			
II.2.	Elective		21/48				
9.	MAT6004	<i>Field and Galois theory</i>	3	45			

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
10.	MAT6001	<i>Theory of Groups and Group Representations</i>	3	45			
11.	MAT6118	<i>Cohomology Operations and Applications</i>	3	45			MAT6007, MAT6003
12.	MAT6006	<i>Algebraic Geometry</i>	3	45			
13.	MAT6012	<i>Homological Algebra</i>	3	45			
14.	MAT6119	<i>Cohomology of Groups</i>	3	45			MAT6007, MAT6003
15.	MAT6013	<i>Algebraic Number Theory</i>	3	45			MAT6004
16.	MAT6014	<i>Advanced group representations theory</i>	3	45			MAT6007, MAT6001
17.	MAT6015	<i>Fibre bundles, Characteristic classes, and K-theory</i>	3	45			MAT6003
18.	MAT6120	<i>Singularity theory and Castatrophe theory</i>	3	45			
19.	MAT6121	<i>Commutative algebra</i>	3	45			
20.	MAT6009	<i>Analysis on Manifolds</i>	3	45			
21.	MAT6010	<i>Complex Analysis</i>	3	45			
22.	MAT6136	<i>Lie groups and Lie algebras</i>	3	45			MAT6001, MAT6005
23.	MAT6137	<i>Differential Topology</i>	3	45			MAT6009
24.	MAT6141	<i>Advanced Topics in Geometry and Topology</i>	3	45			
III	Master thesis		18				
25.	MAT6144	<i>Thesis</i>	18				
Total			64				