

Standard Master program in Mathematics
(Applied Mathematics)

(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:	21/60 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.	MAT6007	<i>Selected Topics in Linear Algebra</i>	3	45			
6.	MAT6100	<i>Partial Differential Equations</i>	3	45			
7.	MAT6030	<i>Ill-Posed Problems</i>	3	35	10		
8.	MAT6029	<i>Numerical Methods for Ordinary Differential Equations</i>	3	40	5		

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
II.2	Elective		21/60				
9.	MAT6101	<i>Numerical Linear Algebra</i>	3	34	11		
10.	MAT6005	<i>Differential Geometry</i>	3	45			
11.	MAT6009	<i>Analysis on Manifolds</i>	3	45			
12.	MAT6001	<i>Theory of Groups and Group Representations</i>	3	45			
13.	MAT6006	<i>Algebraic Geometry</i>	3	45			
14.	MAT6008	<i>Measure and Integration</i>	3	45			
15.	MAT6010	<i>Complex Analysis</i>	3	45			
16.	MAT6028	<i>Convex Analysis</i>	3	35	10		
17.	MAT6031	<i>Solving Operator Equations</i>	3	35	10		
18.	MAT6032	<i>Prediction and Optimization Models in Renewal Theory</i>	3	35	10		
19.	MAT6033	<i>Nonlinear Mathematical Programming</i>	3	35	10		
20.	MAT6102	<i>Selected Topics in Numerical Analysis</i>	3	36	9		
21.	MAT6035	<i>Monte-Carlo Methods in Multivariate Numerical Analysis</i>	3	35	10		
22.	MAT6103	<i>Numerical Methods in Optimal Control Theory</i>	3	36	9		
23.	MAT6104	<i>Numerical Methods for Partial Differential Equations</i>	3	35	10		
24.	MAT6105	<i>Numerical Methods for Extremal Problems</i>	3	36	9		
25.	MAT6106	<i>Wavelets and Applications</i>	3	36	9		
26.	MAT6053	<i>Computational Fluid Mechanics</i>	3	31	10	4	MAT6045
27.	MAT6027	<i>Mathematical Finance</i>	3	30	0	15	MAT6021
28.	MAT6003	<i>Algebraic Topology</i>	3	45			

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				<i>Lecture</i>	<i>Practice</i>	<i>Self-study</i>	
III	Master thesis		18				
29.	MAT6142	<i>Thesis</i>	18				
Total			60				