

Standard Master program in Mathematics
(Theory of Probability and Mathematical Statistics)

(Dated October 29th, 2015)

The total minimum required number of credits:	64 credits
- General courses (required):	07 credits
- Fundamental and core courses:	39 credits
+ Required:	18 credits
+ Elective:	21/45 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				
<i>II.1</i>	<i>Required</i>		<i>18</i>				
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.	MAT6021	<i>Stochastic analysis</i>	3	30		15	MAT6002, MAT6008

8.	MAT6022	<i>Estimation Theory and Statistical hypothesis testing</i>	3	30		15	
II.2	<i>Elective</i>		21/45				
9.	MAT6008	<i>Measure and Integration</i>	3	45			
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.	MAT6010	<i>Complex Analysis</i>	3	45			
15.	MAT6028	<i>Convex analysis</i>	3	35	10	0	
16.	MAT6023	<i>Theory of Martingales</i>	3	30		15	MAT6002 MAT6008
17.	MAT6020	<i>Multivariate statistical analysis</i>	3	30		15	MAT 6007
18.	MAT6025	<i>Stationary processes</i>	3	30		15	MAT6021
19.	MAT6026	<i>Probability measures in metric spaces</i>	3	30		15	MAT6002 MAT6008
20.	MAT6027	<i>Mathematical Finance</i>	3	30		15	MAT6021
21.	MAT6035	<i>Monte-Carlo method in multivariate numerical analysis</i>	3	35	10		
22.	MAT6031	<i>Solving operator equations</i>	3	35	10		
23.	MAT6003	<i>Algebraic Topology</i>	3	45			
III	<i>Master thesis</i>		18				
24.	MAT6145	<i>Thesis</i>	18				
Total			64				