PhD program in Algebra and Number Theory (2013)

The total minimum required number of credits: 91 credits

- Coursework: 21 credits
  - + Basic courses: 09 credits
    - Required: 06 credits
    - Elective: 03/9 credits
  - + Advanced foreign languages for academic purposes: 04 credits
  - + Advanced courses: 06/24 credits
  - + Overview: 02 credits
- Research
- PhD Thesis: 70 credits

Available curriculum :

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	*Practice*	*Self-study*	
I	**Part 1. Coursework**						
I.1	***1.1. Basic courses***		**9**				
I.1.1	***Required***		***6***				
1	MAT8001	*Homotopy theory*	3	15		30	
2	MAT8002	*Homological Algebra II*	3	15		30	
I.1.2	***Elective***		***3/9***				
3	MAT8003	*Cohomology Operations*	3	15		30	
4	MAT8004	*Algebraic curves – Elliptic curves*	3	15		30	
5	MAT8005	*Lie Groups and Lie*	3	15		30	

No	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	*Practice*	*Self-study*	
		Algebras					
I.2	***Advanced foreign languages for academic purposes*** *(choose one of languages bellow):*		**4**				
6	ENG 8001	*Advanced English for Academic Purposes*	4			60	
	RUS 8001	*Advanced Russian For Academic Purposes*	4			60	
	FRE 8001	*Advanced French For Academic Purposes*	4			60	
	WES 8001	*Advanced General For Academic Purposes*	4			60	
	CHI 8001	*Advanced Chinese For Academic Purposes*	4			60	
I.3	**Advanced courses**		**6/24**				
7	MAT8004	*Algebraic curves – Elliptic curves*	3	15		30	
8	MAT8005	*Lie Groups and Lie Algebras*	3	15		30	
9	MAT8006	*Modules over the Steenrod algebra*	3	15		30	
10	MAT8007	*The hit problem and its applications*	3	15		30	
11	MAT8008	*Group Cohomology*	3	15		30	
12	MAT8009	*Algebra and Number Theory seminer*	3	15		30	
13	MAT8010	*Algebraic Number Theory*	3	15		30	
14	MAT8011	*Spectral sequences and applications*	3	15		30	
I.4	**Overview**		**2**				
15	MAT8188	*Research Perspective Report*	2			30	
III	**Part 3. Research (research planning, publishing …)**						
IV	**Part 4. Doctoral Thesis**						
16	MAT9001	*Ph.D thesis*	70				

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				Lecture	*Practice*	*Self-study*	
		Total	**91**				