

CONTENT OF THE EDUCATIONAL PROGRAM

№	Module name	Mod. comp.	№	Number and name of discipline	Acad. credits	Cycle of courses
1	ISE – 1 Integration of science and education	16	1	ISE 501 History and philosophy of science	4	CC UC
			2	ISE 502 Foreign language (Professional)	4	CC UC
			3	ISE 503 Higher School Pedagogy	4	CC UC
			4	ISE 504 Psychology of management	4	CC UC
2	MPM - 2 Mathematics and problems of teaching mathematics	26	5	MPM 501/1 Innovative methods of teaching mathematics in higher school	5	CC OC
				MPM 501/2 Organization of training with STEM elements		
			6	MPM 502/1 Mathematical thinking and its development	5	CC OC
				MPM 502/2 Organization of project activities in mathematical disciplines		
			7	MPM 603/1 Contemporary issues of teaching geometry	6	MC OC
				MPM 603/2 Methods of teaching probability theory and mathematical statistics		
			8	MPM 504/1 Modern tools and technologies for evaluating learning outcomes	5	CC OC
				MPM 504/2 Methods of teaching mathematical analysis at school and university		
			9	MPM 505/1 Foundations of geometry	5	MC OC
				MPM 505/2 Theory of curves and surfaces		
3	DTE - 3 Digital technologies in mathematical education	11	10	DTE 501/1 Mathematical modeling of applied problems	5	MC OC
				DTE 501/2 Using computer environments in teaching mathematics		
			11	DTE 602/1 Development of elective courses in mathematics	6	MC OC
				DTE 602/2 Development of digital educational resources in teaching mathematics at school		
4	TMS - 4 Teaching methods for solving mathematical problems	10	12	TMS 501/1 Theoretical foundations of teaching mathematical problem solving	5	MC OC
				TMS 501/2 Methodology for teaching to prove of mathematical sentences		
			13	TMS 602/1 Methods of solving solid geometry problems	5	MC OC

				TMS 602/2 Non-standard methods for solving mathematical problems		
5	RW - 5 Research work	49	14	RW 501 Qualitative and quantitative research methods	5	MC UC
			15	RW 602 Mathematical processing of the results of a scientific and pedagogical experiment	6	MC UC
			16	RW 603 Teaching practice	4	CC UC
			17	RW 5(6)04 Research practice	10	MC UC
			18	RW 5(6)05 Undergraduate research work, including internships and implementation of a Master's thesis	17	MSRW
				RW 505 Academic writing	2	
				RW 5(6)05 Research methods	5	
6	FC Final certification	8	19	FC 601 Registration and defense of the Master's thesis	8	Final certific ation
Total:		120			120	