UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA FACULTY OF EDUCATIONAL SCIENCES THIRD CYCLE – DOCTORAL ACADEMIC STUDIES PhD in Teaching Mathematics and Physics – 180 ECTS

CURRICULUM:

No.	Course Code	Course Title	Semester	Course Type	Status	Hours of Active Teaching		ctive	ECTS	
						L	P	KV		
	FIRST YEAR									
1.	DRMF01	Methodology of Scientific Research Work	1		M	4	2		8	
2.	DRMF02	Knowledge Management	1		M	4	2		8	
3.	DRMF03	Elective 1	1		E	2	2		7	
		Selected Chapters of Discrete Mathematics								
		Classical Differential Geometry								
		Partial and Integral Equations								
4.	DRMF04	Research Work for Topic Selection and Literature Review for Doctoral Dissertation	1		M	0	4		7	
Total:						10	10		30	
5.	DRMF05	Elective 2	2		E	3	1		7	
		Theory of Models								
		Theory of Recursion								
		Non-Euclidean Geometry								
6.	DRMF06	Elective 3	2		E	3	1		7	
		Approximation Theory								
		Game Theory 1								
		Operational Research								
7.	DRMF07	Creation and Publication of the First Scientific Work	2		M	0	6		7	
8.	DRMF08	Doctoral Dissertation- Topic Research 1	2		M	0	6		9	
Total:	Total:						14		30	

Total Hours of Active Teaching in the First Year of Doctoral Academic Studies:					240	360		60	
SECOND YEAR									
1.	DRMF09	Change Management	3		M	4	2		8
2.	DRMF10	Elective 4	3		Е	3	1		7
		Approximation Theory							
		Game Theory 2							
		Quantum Information and Quantum Mechanics Foundation							
3.	DRMF11	Elective 5	3		E	3	1		7
		Programming in Discrete Mathematics							
		Numerical Analysis Software							
		Quantum Field Theory							
4.	DRMF12	Doctoral Dissertation – Topic Research 2	3		M	0	6		8
Total	:		•			10	10		30
5.	DRMF13	Elective 6	4		E	3	1		7
		Non-standard Analysis							
		Symmetry							
		Special Chapters of Atomic and Molecular Physics							
6.	DRMF14	Creation and Publication of the Second Scientific Work	4		M	0	6		8
7.	DRMF15	Doctoral Dissertation - Topic Research 3	4		M	0	10		15
Total	Total:						17		30
Total Hours of Active Teaching in the Second Year of Doctoral Academic Studies:					195	405		60	
THIRD YEAR									
1.	DI16	Doctoral Dissertation – Topic Research 4	5		M	0	10		15
2.	DI17	Writing a Doctoral Dissertation (Data Processing of a Doctoral Dissertation)	5		M	0	10		15
Total	Total:					0	20		30

3.	DI18	Creation and Publication of the Third Scientific Work	6		M	0	6		8
4.	DI19	Doctoral Dissertation – Topic Research 5	6		M	0	6		8
5.	DI20	Doctoral Dissertation Defense	6		M	0	8		14
Total	Total: 0 20							30	
	Total Hours of Active Teaching in the Third Year of Doctoral Academic Studies: 0 600						60		
Total ECTS							180		

A student who defends his/her doctoral dissertation after passing all the subjects provided for in the curriculum for six semesters receives a certificate of completion of the study program with 180 ECTS points, namely the PhD in Educational Sciences in the selected module - 180 ECTS.