## UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA FACULTY OF TECHNICAL SCIENCES THIRD CYCLE – DOCTORAL ACADEMIC STUDIES PhD in Technical Sciences, major in Software Engineering – 180 ECTS

## **CURRICULUM:**

No.	Course Code	Course Title	Semester	Course Type	Status	Hours of Active Teaching			ECTS
						L	V	C	
FIRS	Г YEAR								
1.	DI01	Methodology of Scientific Research Work	1		М	4	2		8
2.	DI02	Knowledge Management	1		М	4	2		8
3.	DI03	Elective 1	1		Е	2	2		7
		Simulation Modeling							
		Models of Quality Management in Logistics							
		Virtual and Augmented Reality							
4.	DI04	Research Work for Topic Selection and Literature Review for Doctoral Dissertation	1		М	0	4		7
Total:			1		I	10	10		30
5.	DI05	Elective 2	2		Е	3	1		7
		Programming Languages							
		Environmental Engineering							
		Business Intelligence							
6.	DI06	Elective 3	2		Е	3	1		7
		Microprocessor System Design							
		Digital Methods and Technologies							
		Machine Learning							
7.	DI07	Creation and Publication of the First Scientific Work	2		М	0	6		7
8.	DI08	Doctoral Dissertation- Topic Research 1	2		М	0	6		9
Total:						6	14		30
Total Hours of Active Teaching in the First Year of Doctoral Academic Studies:					emic	240	360		60

SECOND YEAR									
	DI09		2	,		4			0
1.		Change Management	3		М	4	2		8
2.	DI10	Elective 4	3	]	E	3	1		7
		Systems Management Theory							
		Information Theory and Coding							
		Congruent Programming							
3.	DI11	Elective 5	3	]	E	3	1		7
		Descriptive Mathematics							
		Robotics and Automation							
		Internet of Intelligent Devices and Smart Environments							
4.	DI12	Doctoral Dissertation – Topic Research 2	3	I	М	0	6		8
Total:	;					10	10		30
5.	DI13	Elective 6	4	]	E	3	1		7
		Game Theory							
		Intelligent Systems							
		Software Defined Networks							
6.	DI14	Creation and Publication of the Second Scientific Work	4	I	м	0	6		8
7.	DI15	Doctoral Dissertation - Topic Research 3	4	1	М	0	10		15
Total:	;	<u> </u>				3	17		30
Total Hours of Active Teaching in the Second Year of Doctoral Academic Studies:					lemic	195	405		60
THIR	D YEAR								
1.	DI16	Doctoral Dissertation – Topic Research 4	5	I	М	0	10		15
2.	DI17	Writing a Doctoral Dissertation (Data Processing of a Doctoral Dissertation)	5	I	М	0	10		15
Total:					0	20		30	
3.	DI18	Creation and Publication of the Third Scientific Work	6	I	м	0	6		8

4.	DI19	Doctoral Dissertation – Topic Research 5	6		Μ	0	6		8
5.	DI20	Doctoral Dissertation Defense	6		М	0	8		14
Total:	Total: 0 20							30	
Total Hours of Active Teaching in the Third Year of Doctoral Academic Studies:0600							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 PhD in Technical Sciences in the selected module - 180 ECTS