

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

CURRICULUM

No.	Course Code	Course Title	Seme ster	Ty pe	Statu s	Hours of Active Teaching			ECTS
						L	P	C	
FIRST YEAR									
1.	DEL01	Methodology of Scientific Research Work	1		M	4	2		8
2.	DEL02	Knowledge Management	1		M	4	2		8
3.	DEL03	<i>Elective 1</i>	1		E	2	2		7
		Simulation Modeling							
		Models of Quality Management in Logistics							
		Automation and System Management							
		Fundamentals of Computer Intelligence							
4.	DEL04	Research Work for Topic Selection and Literature Review for Doctoral Dissertation	1		M	0	4		7
Total:						10	10		30
5.	DEL05	<i>Elective 2</i>	2		E	3	1		7
		Information Technologies in Electrical Engineering							
		Environmental Engineering							
		System Software Support in Real Time							
		Software Support in Real Time							
6.	DEL06	<i>Elective 3</i>	2		E	3	1		7
		Design of Microprocessor Systems							
		Digital Methods and Technologies							
		Internet Networks							
		Designing Dedicated Computer Structures							
7.	DEL07	Creation and Publication of the First Scientific Work	2		M	0	6		7
8.	DEL08	Doctoral Dissertation-Topic Research 1	2		M	0	6		9
Total:						6	14		30
Total Hours of Active Teaching in the First Year of Doctoral Academic Studies:						240	360		60
SECOND YEAR									
1.	DEL09	Change Management	3		M	4	2		8
2.	DEL10	<i>Elective 4</i>	3		E	3	1		7
		System Management Theory							
		Information Theory and Coding							
		Software Specification and Modeling							
		Logical Design of Computer Systems							
3.	DEL11	<i>Elective 5</i>	3		E	3	1		7
		Descriptive Mathematics							
		Robotics and Automation							
		Automation in Smart Residential and Business Facilities							
		Numerical Algorithms and							

		Numerical Software							
4.	DEL12	Doctoral Dissertation – Topic Research 2	3		M	0	6		8
Total:						10	10		30
5.	DEL13	<i>Elective 6</i>	4		E	3	1		7
		Automation of Production Systems							
		Intelligent Systems							
		Technologies of Control Systems							
		Fundamentals of Information Systems and Software Engineering							
6.	DEL14	Creation and Publication of the Second Scientific Work	4		M	0	6		8
7.	DEL15	Doctoral Dissertation - Topic Research 3	4		M	0	10		15
Total:						3	17		30
Total Hours of Active Teaching in the Second Year of Doctoral Academic Studies:						195	405		60
THIRD YEAR									
1.	DEL16	Doctoral Dissertation – Topic Research 4	5		M	0	10		15
2.	DEL17	Writing a Doctoral Dissertation (Data Processing of a Doctoral Dissertation)	5		M	0	10		15
Total:						0	20		30
3.	DEL18	Creation and Publication of the Third Scientific Work	6		M	0	6		8
4.	DEL19	Doctoral Dissertation – Topic Research 5	6		M	0	6		8
5.	DEL20	Doctoral Dissertation Defense	6		M	0	8		14
Total:						0	20		30
Total Hours of Active Teaching in the Third Year of Doctoral Academic Studies:						0	600		60
Total:									180
Total Hours of Active Teaching in the Third Year of Doctoral Academic Studies:									

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 Technical Sciences in the selected module – 180 ECTS.