UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA
FACULTY OF TECHNICAL SCIENCES
FIRST CYCLE - UNDERGRADUATE ACADEMIC STUDIES
Bachelor with Honours in Electronics Engineering – 240 ECTS

CURRICULUM:

No.	Course Code	Course Title	Sem.	Type	Status	Hours of Active Teaching			ECTS
						L	P	C	
FIRST YEAR									
1.	EL01	**Informatics**	1		M	2	3		7
2.	EL02	**Introduction to Programming**	1		M	2	3		7
3.	EL03	**English Language 1**	1		M	2	1		5
4.	EL04	**Mathematics 1**	1		M	2	2		6
5.	EL05	*Elective 1*	1		E	2	1		5
		Introduction to Electrical Engineering							
		Introduction to electronics							
		Control Algorithms							
Total:						10	10		30
6.	EL06	**Mathematics 2**	2		M	2	3		7
7.	EL07	**English 2**	2		M	2	3		7
8.	EL08	**Physics 1**	2		M	2	1		5
9.	EL09	**Algorithms and Data Structures**	2		M	2	2		6
10.	EL10	*Elective 2*	2		E	2	1		5
		Electrical Engineering 1							
		Electronics 1							
		Process Automation							
Total:						10	10		30
Total Hours in the First Year of Undergraduate Academic Studies						300	300		60
SECOND YEAR									
1.	EL11	**Strength of Materials**	3		M	2	3		7
2.	EL12	**Technical Mechanics**	3		M	2	3		7
3.	EL13	**Physics 2**	3		M	2	1		5
4.	EL14	**Application of computers in Electrical Engineering and Electronics**	3		M	2	2		6
5.	EL15	*Elective 3*	3		E	2	1		5
		Electrical Engineering 2							
		Electronics 2							
		Software Design							

Total:						10	10		30
6.	EL16	**Mathematics 3**	4		M	2	3		7
7.	EL17	**Object-Oriented Programming**	4		M	2	3		7
8.	EL18	**Operating Systems**	4		M	2	1		5
9.	EL19	**Fluid Mechanics**	4		M	2	2		6
10.	EL20	*Elective 4*	4		E	2	1		5
		Computer Graphics and Animation							
		Operational Research							
		DSP in Management							
Total:						10	10		30
Total Hours in the Second Year of Undergraduate Academic Studies						300	300		60
THIRD YEAR									
1.	EL21	**Numerical Modeling in Engineering**	5		M	2	3		7
2.	EL22	**Operations Research and Linear Programming**	5		M	2	3		7
3.	EL23	**Digital Signal Processing (DSP)**	5		M	2	1		5
4.	EL24	**Computer Architecture**	5		M	2	2		6
5.	EL25	*Elective 5*	5		E	2	1		5
		Fundamentals of Environmental Engineering.							
		Digital Methods and Technologies.							
		Digital Automatic Control Systems							
Total:						10	10		30
6.	EL26	**Database**	6		M	2	3		7
7.	EL27	**Probability Theory and Statistics**	6		M	2	3		7
8.	EL28	**Fundamentals of Information Systems**	6		M	2	2		5
9.	EL29	**Information Theory and Coding**	6		M	2	1		6
10.	EL30	*Elective 6*	6		E	2	1		5
		Optimization Methods in Electrical Engineering							
		Object-Oriented database							
		Automation and Robotics							
Total:						10	10		30
Total Hours in the Third Year of Undergraduate Academic Studies						300	300		60

		FOURTH YEAR							
1.	EL31	**Intelligent Systems**	7		M	2	3		7
2.	EL32	**Fundamentals of Telecommunications**	7		M	2	3		7
3.	EL33	**Automatic Control**	7		M	2	1		5
4.	EL34	**Computer Networks**	7		M	2	2		6
5.	EL35	*Elective 7*	7		E	2	1		5
		Robotics and Automation							
		Microprocessor systems Design							
		Intelligent Management							
Total:						10	10		30
6.	EL36	**Professional Practice**	8		M				20
7.	EL37	*Final Paper*	8		M		20		10
Total:						0	20		30
Total Hours in the Fourth Year of Undergraduate Academic Studies						150	450		60

A student who defends their final paper after passing all the courses provided by the curriculum for eight semesters, receives the title of engineer of academic studies - Bachelor with honors based on selected elective courses on the selected module - 240 ECTS.