UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA FACULTY OF TECHNICAL SCIENCES

FIRST CYCLE - UNDERGRADUATE ACADEMIC STUDIES

Bachelor of Science in Information Technologies – 240 ECTS

CURRICULUM:

No.	Course Code	Course Title	Sem.	Туре	Status	Hours of Active Teaching			ECTS
						L	P	С	2015
FIRST	YEAR		<u> </u>		'		'		
1.	I01	Mathematics 1	1		M	2	3		7
2.	I02	Informatics	1		M	2	3		7
3.	I03	Management	1		M	2	1		5
4.	I04	Business English 1	1		M	2	2		6
5.	I05	Elective 1	1		E	2	1		5
		Introduction to Programming							
		System Administration							
Total:						10	10		30
6.	106	Mathematics 2	2		M	2	3		7
7.	107	Introduction to Economics	2		M	2	3		7
8.	108	Business Law	2		M	2	1		5
9.	109	Business English 2	2		M	2	2		6
10.	I10	Elective 2	2		E	2	1		5
		Programming Languages							
		Software Tools							
Total:						10	10		30
Total Hours in the First Year of Undergraduate Academic Studies						300	300		60
SECO	ND YEAR								
1.	I11	Marketing	3		M	2	3		7
2.	I12	E – Business	3		M	2	3		7
3.	I13	Computer Networks	3		M	2	1		5
4.	I14	Algorithms and Data Structures	3		M	2	2		6
5.	I15	Elective 3	3		E	2	1		5
		Databases							

		Analysis and Data Processing					
Tota	l:				10	10	30
6.	I16	Operating System	4	M	2	3	7
7.	I17	Linear Algebra	4	M	2	3	7
8.	I18	Statistics and Probability	4	M	2	1	5
9.	I19	Object-Oriented Programming	4	М	2	2	6
10.	I20	Elective 4	4	E	2	1	5
		Computer Networks Security					
		Web Applications Development					
Tota					10	10	30
		the Second Year of Undergradua	te Academic	Studies	300	300	60
THII	RD YEAR						
1.	I21	Differential Equations	5	M	2	3	7
2.	I22	Pedagogy with Psychology	5	M	2	3	7
3.	I23	Discrete Mathematics	5	M	2	1	5
4.	124	Software Engineering and Project Management	5	M	2	2	6
5.	I25	Elective 5	5	E	2	1	5
		Mobile Application Development					
		Computer Algebra with Applications					
Tota	 :				10	10	30
6.	I26	Electrical Engineering	6	M	2	3	7
7.	I27	Electronics	6	M	2	3	7
8.	I28	Algorithm Theory	6	M	2	2	5
9.	I29	Multimedia	6	M	2	1	6
10.	I30	Elective 6	6	E	2	1	5
		Design of Information Systems					

Tota	l:				10	10	30
Tota	Total Hours in the Third Year of Undergraduate Academic Studies						60
FOU	RTH YEA	AR					
1.	I31	Analytical and Geometric Inequalities	7	M	2	3	7
2.	I32	Combinatorics	7	M	2	3	7
3.	133	Measure of Theory and Integration	7	М	2	1	5
4.	I34	Functional Analysis	7	M	2	2	6
5.	I35	Elective 7	7	E	2	1	5
		Software Project Management					
		Programming Languages					
Total:						10	30
6.	I36	Professional Practice	8	E			20
7.	I37	Final Paper	8	E		20	10
Total:					0	20	
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.