

UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA
 FACULTY OF EDUCATION
 FIRST CYCLE - UNDERGRADUATE ACADEMIC STUDIES
 Bachelor with Honours in Teaching Technology and Computer Science– 240 ECTS

NASTAVNI PLAN I PROGRAM:

No.	Course Code	Course Title	Sem.	T	Status	Hours of Active Teaching			ECTS
						L	P	C	
FIRST YEAR									
1.	PI01	Mathematics 1	1		M	2	3		7
2.	PI02	Informatics	1		M	2	3		7
3.	PI03	Management	1		M	2	1		5
4.	PI04	Business English 1	1		M	2	2		6
5.	PI05	<i>Elective 1</i>	1		E	2	1		5
		Introduction to Programming							
		Introduction to Geometry							
		Computers in Physics Teaching							
		Production Techniques							
Total:						10	10		30
6.	PI06	Mathematics 2	2		M	2	3		7
7.	PI07	Introduction to Economics	2		M	2	3		7
8.	PI08	Business Law	2		M	2	1		5
9.	PI09	Business English 2	2		M	2	2		6
10.	PI10	<i>Elective 2</i>	2		E	2	1		5
		Software Tools							
		Analytical Geometry							
		General Physics 1							
		Engineering Graphics							
Total:						10	10		30
Total Hours in the First Year of Undergraduate Academic Studies						300	300		60
SECOND YEAR									
1.	PI11	Marketing	3		M	2	3		7
2.	PI12	E - Business	3		M	2	3		7
3.	PI13	Computer Networks	3		M	2	1		5
4.	PI14	Algorithms and Data Structures	3		M	2	2		6
5.	PI15	<i>Elective 3</i>	3		E	2	1		5
		Data Analysis and Processing							
		Algebra 1							

		General Physics 2						
		Technical Mechanics						
Total:						10	10	30
6.	PI16	Operating Systems	4		M	2	3	7
7.	PI17	Linear Algebra	4		M	2	3	7
8.	PI18	Statistics and Probability	4		M	2	1	5
9.	PI19	Object-oriented Programming	4		M	2	2	6
10.	PI20	<i>Elective 4</i>	4		E	2	1	5
		Security of Computer Networks						
		Algebra 2						
		History of Physics						
		Thermodynamics						
Total:						10	10	30
Total Hours in the Second Year of Undergraduate Academic Studies						300	300	60
THIRD YEAR								
1.	PI21	Differential Equations	5		M	2	3	7
2.	PI22	Pedagogy with Psychology	5		M	2	3	7
3.	PI23	Discrete Mathematics	5		M	2	1	5
4.	PI24	Software Engineering and Project Management	5		M	2	2	6
5.	PI25	<i>Elective 5</i>	5		E	2	1	5
		Algebraic Computer Packages						
		Complex Analysis						
		Quantum Physics						
		Computer Organization						
Total:						10	10	30
6.	PI26	Electrical Engineering	6		M	2	3	7
7.	PI27	Electronics	6		M	2	3	7
8.	PI28	Algorithm Theory	6		M	2	2	5
9.	PI29	Multimedia	6		M	2	1	6
10.	PI30	<i>Elective 6</i>	6		E	2	1	5
		Information Systems Design						
		Numerical Analysis						
		Atomic Physics						
		Multimedia Systems						
Total:						10	10	30
Total Hours in the Third Year of Undergraduate Academic Studies						300	300	60
FOURTH YEAR								

1.	PI31	Analytical and Geometric Inequalities	7		M	2	3		7
2.	PI32	Combinatorics	7		M	2	3		7
3.	PI33	Measure and Integration Theory	7		M	2	1		5
4.	PI34	Functional Analysis	7		M	2	2		6
5.	PI35	<i>Elective 7</i>	7		E	2	1		5
		Informatics Teaching methodology							
		Mathematics Teaching methodology							
		Physics Teaching methodology							
		Operating Systems							
Total:						10	10		30
6.	PI36	Professional Practice	8		M				20
7.	PI37	<i>Final Paper</i>	8		M		20		10
Total:						0	20		30
Total Hours in the Fourth Year of Undergraduate Academic Studies						150	450		60