

UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA  
 FACULTY OF HEALTH SCIENCES  
 FIRST CYCLE - UNDERGRADUATE ACADEMIC STUDIES  
 Bachelor's degree in Laboratory Engineering – 240 ECTS

**CURRICULUM**

No.	Code	Course Title	Sem.	Type	Status	Hours of Active Teaching			ECTS
						L	P	C	
<b>FIRST YEAR</b>									
1.	ZD01	Anatomy	1		M	2	3		7
2.	ZD02	Biochemistry	1		M	2	3		7
3.	ZD03	Business German 1	1		M	2	1		5
4.	ZD04	Business English 1	1		M	2	2		6
5.	ZD05	<i>Elective 1</i>	1		E	2	1		5
		<i>First aid</i>							
		<i>Physiotherapy assessment</i>							
		<i>Introduction to radiology</i>							
		<i>Legislation in sanitary microbiology</i>							
		<i>Qualitative laboratory analysis of urine</i>							
		<i>Introduction to midwifery</i>							
		<i>Health basics of nutrition</i>							
Total:						10	10		30
6.	ZD06	Kysiology	2		M	2	3		7
7.	ZD07	Histology	2		M	2	3		7
8.	ZD08	Business German language 2	2		M	2	1		5
9.	ZD09	Business English language 2	2		M	2	2		6
10.	ZD10	<i>Elective 2</i>	2		E	2	1		5
		<i>Emergency medicine</i>							
		<i>Neurological cytotherapy</i>							
		<i>Radiological devices</i>							
		<i>Special epidemiology</i>							
		<i>Laboratory technologies in immunology</i>							
		<i>Process, models and theories of midwifery care</i>							
		<i>Biochemistry and nutrition metabolism</i>							
Total:						10	10		30
Total Hours in the First Year of Undergraduate Academic Studies						300	300		60
<b>SECOND YEAR</b>									
1.	ZD11	General Principles of Health Care	3		M	2	3		7
2.	ZD12	Mental Health	3		M	2	3		7
3.	ZD 13	Introduction to Medicine	3		M	2	1		5
4.	ZD 14	Business English 3	3		M	2	2		6
5.	ZD 15	<i>Elective 3</i>	3		E	2	1		5
		<i>Health care of neurological patients</i>							
		<i>Children's physiotherapy</i>							
		<i>Radiological methods</i>							
		<i>Clinical microbiology</i>							
		<i>Clinical chemical laboratory technologies</i>							
		<i>Physiology of pregnancy and childbirth</i>							
		<i>Menu preparation</i>							

		<i>methodology</i>							
Total:						10	10		30
6.	ZD 16	Health ethics	4		M	2	3		7
7.	ZD 17	Biomechanics	4		M	2	3		7
8.	ZD 18	Epidemiology	4		M	2	1		5
9.	ZD 19	Medical informatics	4		M	2	2		6
10.	ZD 20	<i>Elective 4</i>	4		E	2	1		5
		<i>Health care in pediatrics</i>							
		<i>Physical therapy</i>							
		<i>Radiotherapy</i>							
		<i>Sanitary microbiology</i>							
		<i>Laboratory technologies in coagulation and homeostasis</i>							
		<i>Prenatal midwifery care</i>							
		<i>Allergens in food</i>							
Total:						10	10		30
Total Hours in the Second Year of Undergraduate Academic Studies						300	300		60
<b>THIRD YEAR</b>									
1.	ZD 21	Pathophysiology	5		M	2	3		7
2.	ZD 22	Pathology	5		M	2	3		7
3.	ZD 23	Surgery	5		M	2	1		5
4.	ZD 24	Neurology	5		M	2	2		6
5.	ZD 25	<i>Elective 5</i>	5		E	2	1		5
		<i>Health care of surgical patients</i>							
		<i>Cardiovascular and pulmonary kisiotherapy</i>							
		<i>Digital radiology</i>							
		<i>Hygiene of foodstuffs</i>							
		<i>Laboratory technologies in molecular biology</i>							
		<i>Risks and complications in pregnancy, childbirth and the puerperium</i>							
		<i>Nutritional therapy</i>							
Total:						10	10		30
6.	ZD 26	Pediatrics	6		M	2	3		7
7.	ZD 27	Psychiatry	6		M	2	3		7
8.	ZD 28	Rheumatology	6		M	2	2		5
9.	ZD 29	Geriatrics	6		M	2	1		6
10.	ZD 30	<i>Elective 6</i>	6		E	2	1		5
		<i>Health care of psychiatric patients</i>							
		<i>Clinical kinesiology</i>							
		<i>Neuroradiology</i>							
		<i>Toxicology</i>							
		<i>Experimental laboratory technologies</i>							
		<i>Midwifery care of sick newborns</i>							
		<i>Nutrigenomics and nutrigenetics</i>							
Total:						10	10		30
Total Hours in the Third Year of Undergraduate Academic Studies						300	300		60
<b>FOURTH YEAR</b>									
1.	ZD 31	Gynecology	7		M	2	3		7
2.	ZD 32	Dermatovenerology	7		M	2	3		7
3.	ZD 33	Family medicine	7		M	2	1		5

4.	ZD 34	Social medicine	7		M	2	2		6
5.	ZD 35	Elective 7	7		E	2	1		5
		<i>Health care of internal medicine patients</i>							
		<i>Orthopedic traumatological kisiotherapy</i>							
		<i>Emergency radiology</i>							
		<i>Industrial microbiology</i>							
		<i>Biochemical laboratory diagnostics of malignant tumors</i>							
		<i>Emergency conditions in midwifery</i>							
		<i>Food toxicology</i>							
Total:						10	10		30
6.	ZD 36	Professional Practice	8		M	10			20
7.	ZD 37	<i>Final Ppaer</i>	8		M				10
Total:						10	20		30
Total Hours in the Fourth Year of Undergraduate Academic Studies						300	450		60

**After passing all the subjects provided for in the curriculum for eight semesters, a student receives a certificate of completion of the study program with 240 ECTS points, namely Bachelor's degree in Laboratory Engineering – 240 ECTS.**