

UNIVERSITY "ECONOMICS ACADEMY" BRCKO DISTRICT OF BOSNIA AND HERZEGOVINA  
 FACULTY OF TECHNICAL SCIENCES  
 FIRST CYCLE - UNDERGRADUATE ACADEMIC STUDIES  
 Bachelor of Science in Mining Engineering – 240 ECTS  
 CURRICULUM:

No.	Course Code	Course Title	Sem.	T	Status	Hours of Active Teaching			ECTS
						L	P	C	
<b>FIRST YEAR</b>									
1.	GR01	Informatics	1		M	2	3		7
2.	GR02	Descriptive Geometry	1		M	2	3		7
3.	GR03	English Language 1	1		M	2	1		5
4.	GR04	Mathematics 1	1		M	2	2		6
5.	GR05	<i>Elective 1</i>	1		E	2	1		5
		Introduction to mining							
		General Mineralogy							
		Technical Physics							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
6.	GR06	Mathematics 2	2		M	2	3		7
7.	GR07	English 2	2		M	2	3		7
8.	GR08	Chemistry	2		M	2	1		5
9.	GR09	Economy in Engineering	2		M	2	2		6
10.	GR10	<i>Elective 2</i>	2		E	2	1		5
		Mineral Deposits							
		General Geology							
		Geodesy							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
<b>Total Hours in the First Year of Undergraduate Academic Studies</b>						<b>300</b>	<b>300</b>		<b>60</b>
<b>SECOND YEAR</b>									
1.	GR11	Strength of Materials	3		M	2	3		7
2.	GR12	Technical Mechanics	3		M	2	3		7
3.	GR13	Statics	3		M	2	1		5
4.	GR14	Fundamentals of Electrical Engineering	3		M	2	2		6
5.	GR15	<i>Elective 3</i>	3		E	2	1		5
		Geomorphology							
		Geoinformation Systems							
		Exploration Drilling							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
6.	GR16	Engineering Graphics and CAD	4		M	2	3		7

7.	GR17	Earthworks	4		M	2	3		7
8.	GR18	Exploitation	4		M	2	1		5
9.	GR19	Land Consolidation	4		M	2	2		6
10.	GR20	<i>Elective 4</i>	4		E	2	1		5
		Fundamentals of Engineering							
		Structural Geology							
		Leveling Calculus							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
<b>Total Hours in the Second Year of Undergraduate Academic Studies</b>						<b>300</b>	<b>300</b>		<b>60</b>
<b>THIRD YEAR</b>									
1.	GR21	Numerical Modeling in Engineering	5		M	2	3		7
2.	GR22	Operational Research and Databases	5		M	2	3		7
3.	GR23	Underground Structures and Tunnels	5		M	2	1		5
4.	GR24	Structural Engineering	5		M	2	2		6
5.	GR25	<i>Elective 5</i>	5		E	2	1		5
		Fundamentals of Environmental engineering							
		Protection and Revitalization of Mining Heritage							
		GPS-Global Navigation Systems							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
6.	GR26	Geomechanics	6		M	2	3		7
7.	GR27	Regulations and Standardization in Engineering	6		M	2	3		7
8.	GR28	System Paleontology	6		M	2	2		5
9.	GR29	Geotechnical Structures	6		M	2	1		6
10.	GR30	<i>Elective 6</i>	6		E	2	1		5
		Mining Ventilation							
		Hydrogeology							
		Fundamentals of Standardization in Geodesy							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
<b>Total Hours in the Third Year of Undergraduate Academic Studies</b>						<b>300</b>	<b>300</b>		<b>60</b>
<b>FOURTH YEAR</b>									
1.	GR31	Mineralogy with Petrology.	7		M	2	3		7
2.	GR32	Optics of Ore Minerals	7		M	2	3		7

3.	GR33	Raw Materials Exploration	7		M	2	1		5
4.	GR34	Flotation and Agglomeration	7		M	2	2		6
5.	GR35	<i>Elective 7</i>	7		E	2	1		5
		Remote Monitoring of Mines							
		Metrology							
		Geodetic Measuring Techniques							
<b>Total:</b>						<b>10</b>	<b>10</b>		<b>30</b>
6.	GR36	Professional Practice	8		M				20
7.	GR37	<i>Final Paper</i>	8		M		20		10
<b>Total:</b>						<b>0</b>	<b>20</b>		<b>30</b>
<b>Total Hours in the Fourth Year of Undergraduate Academic Studies</b>						<b>150</b>	<b>450</b>		<b>60</b>

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.