UNIVERZITET "PRIVREDNA AKADEMIJA" BRČKO DISTRIKT BIH FAKULTET TEHNIČKIH NAUKA PRVI CIKLUS – DODIPLOMSKE STUDIJE Bachelor of Science in Geology – 240 ECTS

CURRICULUM:

No.	Course Code	Course Title	Sem.	Т	Status	Hours of Active Teaching			ECTS
						L	Р	С	
		FIRST	YEAR						
1.	GR01	Informatics	1		М	2	3		7
2.	GR02	Descriptive Geometry	1		М	2	3		7
3.	GR03	English Language 1	1		М	2	1		5
4.	GR04	Mathematics 1	1		М	2	2		6
5.	GR05	Elective 1	1		Е	2	1		5
		Introduction to mining							
		General Mineralogy							
		Technical Physics							
Total:	:	I			1	10	10		30
6.	GR06	Mathematics 2	2		М	2	3		7
7.	GR07	English 2	2		М	2	3		7
8.	GR08	Chemistry	2		М	2	1		5
9.	GR09	Economy in Engineering	2		М	2	2		6
10.	GR10	Elective 2	2		Е	2	1		5
		Mineral Deposits							
		General Geology							
		Geodesy							
Total:	:		•		•	10	10		30
Total	Hours in th	ne First Year of Undergraduate Aca	ademic S	Studie	es	300	300		60
		SECON	D YEAR	2	T		T		
1.	GR11	Strength of Materials	3		М	2	3		7
2.	GR12	Technical Mechanics	3		М	2	3		7
3.	GR13	Statics	3		М	2	1		5
4.	GR14	Fundamentals of Electrical Engineering	3		М	2	2		6
5.	GR15	Elective 3	3		Е	2	1		5
		Geomorphology							
		Geoinformation Systems				1	1		
		Exploration Drilling					1		
Total:					1	10	10		30
6.	GR16	Engineering Graphics and CAD	4		Μ	2	3		7

-		1							
7.	GR17	Earthworks	4		Μ	2	3		7
8.	GR18	Exploitation	4		Μ	2	1		5
9.	GR19	Land Consolidation	4		Μ	2	2		6
10.	GR20	Elective 4	4		Е	2	1		5
		Fundamentals of Engineering			_		_		-
		Structural Geology							
		Leveling Calculus							
Total:						10	10		30
	300	300		<u> </u>					
Total Hours in the Second Year of Undergraduate Academic Studies THIRD YEAR							500		00
		Numerical Modeling in							
1.	GR21	Engineering	5		Μ	2	3		7
2	GDAA	Operational Research and	_				2		
2.	GR22	Databases	5		Μ	2	3		7
2	CD22	Underground Structures and	_		X	•	1		-
3.	GR23	Tunnels	5		Μ	2	1		5
4.	GR24	Structural Engineering	5		М	2	2		6
5.	GR25	Elective 5	5		Е	2	1		5
		Fundamentals of Environmental engineering							
		Protection and Revitalization of Mining Heritage							
		GPS-Global Navigation Systems							
Total:				1 1		10	10		30
6.	GR26	Geomechanics	6		М	2	3		7
7.	GR27	Regulations and Standardization in Engineering	6		М	2	3		7
8.	GR28	System Paleontology	6		М	2	2		5
9.	GR29	Geotechnical Structures	6		М	2	1		6
10.	GR30	Elective 6	6		Е	2	1		5
		Mining Ventilation							
		Hydrogeology							
		Fundamentals of							
		Standardization in Geodesy							
Total:						10	10		30
Total Hours in the Third Year of Undergraduate Academic Studies						300	300		60
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I otal I		FOURT	II I I // I						
Total F	GR31	FOURT Mineralogy with Petrology.	7		М	2	3		7
	GR31 GR32		1		M M	2 2	3 3		7 7

4.	GR34	Flotation and Agglomeration	7		Μ	2	2	6
5.	GR35	Elective 7	7		Е	2	1	5
		Remote Monitoring of Mines						
		Metrology						
		Geodetic Measuring						
		Techniques						
Total:						10	10	30
6.	GR36	Professional Practice	8		Μ			20
7.	GR37	Final Paper	8		Μ		20	10
Total:						0	20	30
Total	Total Hours in the Fourth Year of Undergraduate Academic Studies						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.