

Year	Semester	Number	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours per week		Overall teaching hours per semester	Credits	
						L	E/S			
FIRST	First	1	121101	General Geology	E	2	3	70	6	
		2	361101	Mathematics I	E	2	2	56	4	
		3	371101	Introduction to Computer Technologies	CA	1	2	42	4	
		4	131139	Fundamentals of Mineralogy	E	2	2	56	5	
		5	121156	Computer Graphics	CA	1	3	56	5	
		6	291111	Inorganic and Analytical Chemistry	E	2	2	56	4	
		7	421100	Foreign language			2	28	2	
				<i>Optional course</i>						
		8	431100	Physical Education and Sports			(2)	(28)	1*	
	<b>Overall for the first semester: weekly /total</b>					<b>4/2(1)</b>	<b>10/140</b>	<b>16/224</b>	<b>364</b>	<b>30+1*</b>
	Second	9	361102	Mathematics II	E	2	2	56	5	
		10	111154	Introduction to GIS	CA	1	3	56	5	
		11	251101	Geodesy	E	2	2	56	6	
		12	121176	Fundamentals of Geoinformatics	CA	2	2	56	6	
		13	131144	Petrography	E	3	3	84	6	
			421100	Foreign language	CA		2	28	2	
				<i>Optional course</i>						
			431100	Physical Education and Sports	CA		(2)	(28)	1*	
		<b>Overall for the second semester: weekly /total</b>					<b>3/4</b>	<b>10/140</b>	<b>14/196</b>	<b>336</b>
	<b>Overall teaching hours for the first year:</b>					<b>7/6/(1)</b>	<b>20</b>	<b>30</b>	<b>700</b>	<b>60+2*</b>
	Practical trainings		121126	General Geology - 4 days					24	
			131107	Mineralogy – 2 days					12	
			131106	Petrography - 3 days					18	
		121162	Fundamentals of Geoinformatics – 5 days					30		
		251154	Geodesy – 5 days					30		
								Total:	114	
<b>Overall for the first year:</b>								<b>814</b>	<b>60+2*</b>	

Year	Semester	Number	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours per week		Overall teaching hours per semester	Credits	
						L	E/S			
FOURTH	Third	14	121153	Paleontology and Stratigraphy	E	2	2	56	5	
		15	181101	Physics	E	2	2	56	5	
		16	371104	Computer nets and communications	CA	2	2	56	5	
		17	371152	Fundamentals of programming	E	2	2	56	5	
		18	111103	Fundamentals of geostatistics	E	2	2	56	4	
		19	121123	Geological computer graphics	CA	1	3	56	4	
			421101	Foreign language			2	28	2	
				<i>Optional course</i>	CA					
			431143	Physical Education and Sports			(2)	(28)	1*	
			<b>Overall for the third semester: weekly /total</b>	<b>4/2</b>	<b>11/154</b>	<b>15/210</b>	<b>364</b>	<b>30+1*</b>		
	Fourth	20	121154	Structural geology and geotectonics	E	3	3	84	6	
		21	151112	Hydrogeology and Engineering Geology	E	3	3	84	6	
		22	251131	Global Systems for Satellite Navigation	E	1	2	42	4	
		23	371103	Programming	CA	2	2	56	4	
		24	121155	Cartography	E	2	2	56	4	
		25	371154	CAD-Systems	CA	1	3	56	4	
			421100	Foreign language	CA		2	28	2	
				<i>Optional course</i>						
			431100	Physical Education and Sports	CA		(2)	(28)	1*	
			<b>Overall for the fourth semester: weekly /total</b>	<b>4/4</b>	<b>12/168</b>	<b>17/238</b>	<b>406</b>	<b>30+1*</b>		
	<b>Overall teaching hours for the second year:</b>					<b>8/6</b>	<b>23</b>	<b>32</b>	<b>770</b>	<b>60+2*</b>
	Practical trainings		121128	Paleontology and Stratigraphy - 3 days				18		
			121129	Structural geology - 3 days				18		
			121135	Geological computer graphics – 5 days				30		
		Total:							66	
	<b>Overall for the second year:</b>								<b>836</b>	<b>60+2*</b>

Year	Semester	Number	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours per week		Overall teaching hours per semester	Credits	
						L	S			
THIRD	Fifth	26	121157	Historical and Regional Geology	E	3	3	84	5	
		27	121158	GIS and Space Analyses	CA	1	3	56	5	
		28	371130	Systems for database control	E	2	2	56	5	
		29	121105	Geomorphology and Quaternary Geology	E	2	2	56	5	
		30	371168	CAD Systems in Geology	CC	1	3	56	4	
		31	111117	Geology and Prospecting of Mineral Deposits	E	2	2	56	4	
				<i>Optional courses</i>						
			421100	Foreign language			(2)	(28)	2*	
			431100	Physical Education and Sports			(2)	(28)	1*	
			32	411300	Humanities, social and legal sciences		(2)	(1)	(42)	2*
			<b>Overall for the fifth semester: weekly /total</b>		<b>4/2/(1)</b>	<b>11/154</b>	<b>15/210</b>	<b>364</b>	<b>30+5*</b>	
		Sixth	33	121108	Field geology	E	2	4	84	10
			34	141114	Applied geophysics	E	2	2	56	5
			35	121163	GIS-documenting of linear infrastructural objects	CO	1	3	56	5
			36	121178	Geological documenting	CO	1	3	56	5
			37	111155	Geology and Geochemistry of the Fossil Fuels	E	2	2	56	5
				<i>Optional courses</i>						
			421100	Foreign language			(2)	(28)	2*	
			431100	Physical Education and Sports			(2)	(28)	1*	
			411300	Humanities, social and legal sciences			(2)	(1)	(42)	2*
				<b>Overall for the sixth semester: weekly /total</b>		<b>3/2/(1)</b>	<b>8/112</b>	<b>15/196</b>	<b>308</b>	<b>30+5*</b>
			<b>Overall teaching hours for the third year:</b>		<b>7/4/(2)</b>	<b>19</b>	<b>29</b>	<b>672</b>	<b>60+10*</b>	
		Practical trainings		121130	Field Geology - 10 days				60	
				121144	Regional Geology and Geological Phenomena – 8 days				48	
					Total:				108	
			<b>Overall for the third year:</b>						<b>780</b>	<b>60+10*</b>

Year	Semester	Number	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours per week		Overall teaching hours per semester	Credits	
						L	E/S			
FOURTH	Seventh	38	121152	Audiovisual Technologies in Education	CC	1	3	56	5	
		39	111131	Industrial Types Deposits of Mineral Resources	E	2	2	56	6	
		40	121160	GIS-Processing of Geological Information	CC	1	4	70	7	
		41	121159	Environmental Geology	CC	2	2	56	6	
		42		<i>Elective - one out of:</i>	E	2	2	56	6	
			111212	a. Cartographic Modeling						
			111212	b. Geological Prospecting of Oil and Gas Deposits						
			131230	c. Heavy-Mineral Analysis						
				<i>Optional courses</i>						
			421100	Foreign language			(2)	(28)	2*	
			431100	Physical Education and Sports			(2)	(28)	1*	
			411300	Humanities, social and legal sciences			(2)	(1)	(42)	2*
				<b>Overall for the seventh semester: weekly /total</b>		<b>2/3/(1)</b>	<b>8/112</b>	<b>13/182</b>	<b>294</b>	<b>30+5*</b>
		Eighth	43	121164	Geological Heritage	E	2	2	56	4
	44		111145	3D Geological modeling	CC		3	42	3	
	45		121161	Remote Sensing	CC	1	3	56	4	
	46			<i>Elective - one out of:</i>	E	2	2	56	5	
			371223	a. Programming in Internet						
			131232	b. Environmental Geochemistry						
			161229	c. Fundamentals of Drilling						
	47			<i>Elective - one out of:</i>	E	2	2	56	4	
			111253	a. Statistical Analysis of Geological Information						
			131225	b. Fundamentals of Gemology						
			111222	c. Reservoir Geology						
				<i>Optional courses</i>						
			421100	Foreign Language			(2)	(28)	2*	
			431100	Physical Education and Sports			(2)	(28)	1*	
		411300	Humanities, social and legal sciences			(2)	(1)	(42)	2*	
		<b>State exam</b>						10		
		<b>Overall for the eighth semester: weekly /total</b>		<b>3/2/(1)</b>	<b>7/98</b>	<b>12/168</b>	<b>266</b>	<b>30+5*</b>		
		<b>Overall for the fourth year:</b>		<b>5/5/(2)</b>	<b>16</b>	<b>29</b>	<b>560</b>	<b>60+10*</b>		
		<b>TOTAL:</b>		<b>27/21/(5)</b>	<b>1078</b>	<b>1624</b>	<b>2990</b>	<b>240 +24*</b>		

Totally 2990 hours, including 1078 h lectures, 1624 h seminars and 288 h Practical trainings.

\*The credits over 240 are formed by the courses in Physical Education and Sports and Foreign Language (III and IV years)

Abbreviations: E–exam; CA - continuous assessment; L-Lectures; S – seminars.