CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: BACHELOR COURSE OF STUDY: HYDROGEOLOGY AND ENGINEERING GEOLOGY VOCATIONAL FIELD: 4.4. EARTH SCIENCES

FORM OF STUDY: FULL-TIME DURATION OF STUDY: 4 YEARS

Duration of each semester: 14 weeks; of the eighth semester - 10 weeks

	Semester		unit	Full name of the course units (course projects, practical training)	Form of control	Teaching hours (weekly)		Overall teaching hours by type of seminar			Overall	cc. to
Year		ōN	Course unit code			L	S	S	Lab	Р	load per semester	Credits acc. t ECTS
	First	1		General Geology	Е	2	2		28		56	7
		2	361101	Linear Algebra and Analytical Geometry	Е	2	2	28			56	8
		3	281101	General Chemistry	Е	2	2		28		56	8
		4	131139	Fundamentals of Mineralogy	Е	2	2	28			56	7
		5	371100	Physical Education and Sports	CA		2			28	28	1*
First			272246	Scientific (Academic) Ethics								
				Overall for the first semester	4+1	8	10	56	56	28	252	30+1*
	Second	6	181102	Physics, Part I	Е	2	2		28		56	5
		7	361102	Mathematical Analysis	Е	2	2	28			56	6
ΙŒ		8	251150	Geodesy and Mine Surveying	Е	2	2	28			56	6
		9	131144	Petrography	Е	3	3	42			84	8
	Se	10	111103	Fundamentals of Geostatistics	CA	2	2	28			56	5
		11	371100	Physical Education and Sports	CA		2			28	28	1*
				Overall for the second semester	4+2	11	13	126	28	28	336	30+1*
		12	121126	Practical training in General Geology						18	18	1*
		13	131141	Practical training in Fundamentals of Mineralogy						18	18	1*
		14	131106	Practical training in Petrography						24	24	1*
		15	251151	Practical training in Geodesy and Mine Surveying						18	18	1*
				Overall for the first year	8+3	266	322	182	84	134	722	60+6*
	Third	16		Physics, Part II	Е	2	2		28		56	6
		17	351129	Principles of Mechanics/Theoretical Mechanics	Е	2	2	28			56	6
		18	171126	Ecology and Environmental Protection	Е	2	2	28			56	6
		19	121114	Stratigraphy, Historical, and Regional Geology	Е	2	2	28			56	7
		20	361129	Introduction to Computer Technologies	CA	1	2	28			42	5
		21	221100	Foreign Language	CA		3	42			42	1*
		22	371100	Physical Education and Sports	CA		2			28	28	1*
٦				Overall for the third semester	4+3	9	15	154	28	28	336	30+2*
Second	Fourth	23		Structural Geology and Geological Mapping	Е	2	3	42			70	9
Se		24		Hydrochemistry	Е	2	2	42			56	7
		25	271105	Economics and Management	Е	2	2	28			56	7
		26		Mining Technologies	Е	2	2	28			56	7
		27	221100	Foreign Language	CA		3	42			42	1*
		28	371100	Physical Education and Sports	CA		2			28	28	1*
		Overall for the fourth semester			4+2	8	14	182		28	308	30+2*
		29	121131	Practical training in Structural Geology and Geological Mapping						18	18	1*
	Щ	30	121134	Practical training in Regional Geology	8+5	238				18	18	1*
	Overall for the second year						406	336	28	92	736	60+6*

Year	Semester		Course unit code	Full name of the course units (course projects, practical	Form of control	Teaching hours (weekly)		Overall teaching hours by type of seminar			Overall academic	Credits acc. to ECTS
		No		training)	Form of	L	S	S	Lab	Р	load per semester	Credits
	Fifth	31	161123		Е	2	2	28			56	6
		32		General Hydrogeology	E	4	4	40	12	4	112	9
		33		Pedology	Е	4	4	16	40		112	9
		34		Geomorphology and Quaternary Geology	CA	2	2	28			56	6
		35	221200	Foreign Language – <i>elective</i>			3	42			42	1*
				Overall for the fifth semester	3+1	12	15	154	52	4	378	30+1*
		36		Applied Geophysics	E	2	2	28			56	5
		37		Engineering Facilities	E	2	2	28			56	5
Third		38		Ground Water Dynamics	E	4	4	56			112	8
	Sixth	39		Engineering Geodynamics	E	4	4	56			112	8
	S	40		Geology and Exploration of Mineral Deposits	Е	2	2	28			56	4
				Foreign Language – elective								
			3/1300	Physical Education and Sports - elective	-	44	44	400			200	20
	Н			Overall for the sixth semester	5	14	14	196			392	30
		41		Practical training in Hydrogeology and Engineering Geology						30	30	1*
		42	141128	Practical training in Applied Geophysics						18	18	1*
	Overall for the third year				8+1	364	406	350	196	48	818	60+3*
	Seventh	43		Ground Water Exploration	Е	3	4	56			98	7
		44		Engineering and Geological Prospecting	Е	3	4	56			98	7
		45		Geotechnics	Е	2	3	42			70	6
		46		Technical Safety	CA	2	2	14			56	5
		47		Hydrogeology and Hydraulics	Е	2	2	28			56	5
				Foreign Language – elective								
	Ш		371300	Physical Education and Sports - elective								
				Overall for the seventh semester	4+1	12	15	196			378	30
Fourth	Eighth	48	151109	Regional Engineering Geology Ground Water in Bulgaria	E	3	3	30			60	6
		49		Ground Water Preservation	E	3	3	30			60	6
		50			E	3	3	30			60	6
		51		Engineering Geoecology Course project in Hydrogeology	E	3	3	30			60	6
		52 53		Course project in Frigure geology	CA		2	10			20	3
		53			CA		2	10			20	3
				Foreign Language – <i>elective</i> Physical Education and Sports - <i>elective</i>								
			37 1300	Overall for the eighth semester	4+2	12	16	140			280	30
		54	221120	Practical training in Hydrology and Hydraulics	412	12	10	140		12	12	1*
		34	231129	Practical training in Frydrology and Frydraulics Practical training in Regional Engineering Geology and						12	12	- '
		55	151131	Hydrogeology						18	18	1*
	Overall for the fourth year				8+3	288	370	336		30	688	60+2*
	State exam											10*
	OVERALL FOR THE FULL COURSE OF STUDY					1156	1504	1204	308	304	2964	240+27*

^{*}The credits above 240 are formed by the course units in *Foreign Languages* and *Physical Education and Sports*, by the practical training, and by the state exam. Abbreviations: **E** - examination; **CA** -continuous assessment; **L** - lectures; **Lab** - laboratory seminars; **S** -seminars; **P** - practical seminars

Parameters of the educational process:

Overall teaching hours for the full course of study: 2964

Academic load: 2772 lectures: 1156 seminars: 1504

- seminars 1204 - laboratory seminars 308

- practical seminars 304

Extracurricular load (practical training): 192
Number of exams per course of study: 32
Items of continuous assessment: 12