

CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: BACHELOR
COURSE OF STUDY: HYDROGEOLOGY AND ENGINEERING GEOLOGY

VOCATIONAL FIELD: 5.7. ARCHITECTURE, CIVIL ENGINEERING AND GEODESY

Year	Semester	№	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Lecture hrs/week		Seminars hrs/week			Total	Credits	
						L	HT	S	Lab	P			
FIRST	First	1	121101	General geology	E	2	3	42			70	6	
		2	361101	Mathematical Analysis - Part I	E	2	3	42			70	8	
		3	291101	Chemistry	E	2	3		42		70	6	
		4	131139	Foundations of Mineralogy	E	2	2	28			56	5	
		5	431143	Physical Education and Sports (2 hrs/week)	CA		2				28	1*	
				<i>Optional course</i>									
		6	411300	Humanities, Social and Legal Science	CA	2	1				42	1*	
	Overall for the 1st semester:					4+2	140	182	140	42		322	30+1*
		Second	7	181102	Physics - Part I	E	2	2		28		56	5
	8		361102	Mathematical Analysis - Part II	E	3	3	42			84	7	
	9		251101	Geodesy	E	2	2	28			56	5	
	10		131144	Petrology	E	3	3	42			84	8	
	11		111103	General Geostatistics	CA	2	2	28			56	5	
	12		431143	Physical Education and Sports (2 hrs/week)	CA							1*	
	13		121101	Feld practice General Geology						18	18*	1*	
	14		131141	Feld practice Foundations of Mineralogy						18	18*	1*	
15	131106		Feld practice Petrology						30	30*	1*		
16	251142	Feld practice Geodesy						24	24*	1*			
Overall for the 2nd semester:					4+2	126	168	140	28	90	294+90*	30+5*	
Overall for the first year:					8+4	266	350	280	70	90	616+90*	60+6*	
SECOND	Third	17	181103	Physics - Part II	E	2	2		28		56	5	
		18	281102	Theoretical mechanics	E	2	2	28			56	5	
		19	171126	Ecology and environmental protection	E	2	2	28			56	5	
		20	121114	Stratigraphy ,Historical and regional geology	E	2	2	28			56	6	
		21	371102	Introduction in computer technologies	CE	1	2	28			32	4	
		22	421201-421205	Foreign language	CE		4	56			56	5	
		23	431143	Physical Education and Sports (2 hrs/week)	CE							1*	
		Overall for the 3rd semester:					4+3	126	196	168	28		322
		Fourth	24	121113	Structural geology and geological mapping	E	3	3	42			84	8
	25		291213	Hydrochemistry of Groundwater	E	2	3	42			70	6	
	26		231128	Hydrology and hydraulics	E	2	3	42			70	6	
	27		231130	Engineering constructions	E	2	2	28			56	5	
	28		421201-421205	Foreign language.	CE		4	56			56	5	
	29		431143	Physical Education and Sports (2 hrs/week)	CE							1*	
	30		121113	Feld practice Structural geology and geological mapping						30	30*	1*	
	31		121130	Feld practice General geology						30	30*	1*	
32	231129		Feld practice Hydrology						18	18*	1*		
Overall for the 4th semester:					4+2	126	210	168	42	78	336+78	30+4*	
Overall for the second year:					8+5	252	406	336	70	78	658+78	60+5*	

Year	Semester	№	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Lecture hrs/week		Seminars hrs/week			Total	Credits	
						L	HT	S	LT	PT			
THIRD	Fifth	33	161114	Drilling technologies	E	2	2	28			56	4	
		34	151101	General Hydrogeology	E	4	4	56			112	9	
		35	151102	Soil science	E	4	4		56		112	9	
		36	121105	Geomorphology and Quaternary Geology	CE	2	2	28			56	4	
		37	231131	Mining technologies	И	1	2	28			42	4	
		38	421200-421205	Foreign language									
	Overall for the 5th semester:					4+1	182	196	140	56		378	30
	Sixth	39	141114	Applied geophysics	E	2	2	28			56	5	
		40	151103	Groundwater dynamics	E	4	4	56			112	10	
		41	151104	Engineering geodynamics	E	4	4	56			112	10	
		42	111117	Geology and exploitation of mineral deposits	E	2	2	28			56	5	
		43	51131	Feld practice Hydrogeology and engineering geology						42	42*	1*	
		44	141155	Feld practice Applied geophysics						24	24*	1*	
	Overall for the 6th semester:					4	168	168	168		66	336+66	30+2*
Overall for the third year:					8+1	350	364	308	56	66	714+66	60+2*	
FOURTH	Seventh	45	151105	Groundwater prospection	E	3	4	56			98	8	
		46	151106	Engineering geological explorations	E	3	4	56			98	8	
		47	151107	Geotechnics	E	3	3	42			84	7	
		48	261102	Technical safety	CE	1	2	28			42	3	
		49	271113	Branch Economics and Management	E		2	28			56	4	
	Overall for the 7th semester :					4+1	168	210	210			378	30
	eighth	50	151109	Regional Engineering Geology	E	2	2	28			56	3	
		51	151110	Groundwater in Bulgaria	E	2	2	28			56	3	
		52	151111	Groundwater protection	E	3	3	42			84	5	
		53	151108	Engineering geoecology	E	3	3	42			84	5	
		54	151129	Course Project Hydrogeology	CE		2	28			28	2	
		55	151130	Course Project Engineering geology	CE		2	28			28	2	
		56	151132	Feld practice Regional Engineering Geology and Hydrogeology						18	18*	1*	
	Overall for the 8th semester :					4+2	98	196	196		18	294+18	20+1*
Overall for the fourth year ::					8+3	266	406	406		18	672+18	50+1*	
Credits for the State exam :												10	
OVERALL FOR THE FULL COURSE OF STUDY :					32+13	1134	1526	1330	196	252	2660+252 2912	254	

Duration of the semester - 14 weeks

PARAMETERS OF THE CURRICULUM:

Total hrs - **2912**

Lecture : **1134**

Practical training: - **1526**

Seminars: - **1330**

Laboratory: - **196**

Total practices: - **252**

*The credits over 240 are formed from the course units to Physical Education and Sports and the practical training.

Abbreviations: E- exam; CA - continuous assessment; L - lectures; S - seminars; Lab - laboratory seminars; P - practical seminars.

The speciality assignments are evaluated with "yes/no".

The educational course takes 4 years and ends with a final **State Exam**.

Students graduate as **BACHELORS IN HYDROGEOLOGY AND ENGINEERING GEOLOGY**.