



FACULTY OF GEOLOGY AND EXPLORATION

C U R R I C U L U M

<u>VOCATIONAL FIELD:</u>	4.4. EARTH SCIENCES
<u>COURSE OF STUDY:</u>	GEOINFORMATICS
<u>EDUCATIONAL AND QUALIFICATION DEGREE:</u>	MASTER
<u>VOCATIONAL QUALIFICATION:</u>	ENGINEER IN GEOINFORMATICS
<u>FORM OF STUDY:</u>	FULL-TIME
<u>DURATION OF STUDY:</u>	1 YEAR

Adopted at a session of the Academic Council of the University of Mining and Geology "St. Ivan Rilski"

Minutes № 10 / 06th July 2021

HEAD OF DEPARTMENT "GEOLOGY AND GEOINFORMATICS":

(Assoc. Prof. Dr. Ivan D. Ivanov)

DEAN:

(Assoc. Prof. Dr. B. Valchev)

CURRICULUM
EDUCATIONAL AND QUALIFICATION DEGREE: MASTER
COURSE OF STUDY: GEOINFORMATICS
VOCATIONAL FIELD: 4.4. EARTH SCIENCES

FORM OF STUDY: FULL-TIME
 DURATION OF STUDY: 1 YEAR
 Duration of each semester: 15 weeks

Year	Semester	№	Course unit code	Full name of the course units (course projects, practical training)	Form of control	Teaching hours (weekly)		Overall teaching hours by type of seminar			Overall academic load per semester	Credits acc. to ECTS	
						L	S	S	Lab	P			
First	First	1	112146	GIS Analyses in Geo-Exploration	E	2	3		45		75	6	
		2	122141	GIS Recording and Management of Protected Areas	E	2	3		30	15	75	6	
		3		Elective course unit									
			122218	1. Special Methods for 3D Geological Analysis	E	2	3		30	15	75	6	
			122216	2. Geodynamic Processes and Phenomena				45					
		4	172126	Ecology and Environmental Protection	E	2	3		45		75	6	
		5		Elective course unit									
			122242	1. Application of GIS in Landscape Research	CA	1	4		60		75	6	
			122243	2. Spatial Information Infrastructure									
				Optional course unit									
			222301	English Language				28	28			28	
		372300	Physical Education and Sports				28		28		28		
	Overall for the first semester					4+1	9	16	45	200	30	375	30
	Second	Second	6	112124	Remote Sensing Methods in Geology	E	2	3		45		75	5
			7	122117	Making of Geological Maps in GIS	CA	1	4		60		75	5
			8	142143	Numerical Processing of Images	E	1	4		60		75	5
			9	122144	Geocological Modelling in the GIS Environment	E	1	4		60		75	5
			10	122145	Fundamentals of Research	E	2	3	45			75	5
			11		Elective course unit								
			362233	1. Web Development	CA	1	3		45		60	5	
			122246	2. Programming in the GIS Environment									
				Optional course unit									
			222301	English Language				28	28			28	
	372300	Physical Education and Sports				28		28		28			
Overall for the second semester					4+2	7	22	330	30	435	30		
		122132	Development and defence of the diploma paper								15		
Overall for the first year					8+3			45	500	30	810	75	
OVERALL FOR THE FULL COURSE OF STUDY					8+3			45	500	30	810	75	

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

Parameters of the Curriculum:

Overall teaching hours for the full course of study:	810
Academic load:	810
lectures:	235
seminars:	575
- seminars	45
- laboratory seminars	500
- practical seminars	30
Extracurricular load (practical training):	
Number of exams:	8
Items of continuous assessment:	3