



**UNIVERSITY OF MINING AND GEOLOGY "ST. IVAN RILSKI"  
SOFIA**

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**FACULTY OF GEOLOGY AND EXPLORATION**

**CURRICULUM**

VOCATIONAL FIELD:	<b>5.8 EXPLORATION, MINING, AND PROCESSING OF MINERALS</b>
COURSE OF STUDY	<b>ECONOMIC GEOLOGY</b>
EDUCATIONAL AND QUALIFICATION DEGREE	<b>MASTER</b>
PROFFESIONAL QUALIFICATION	<b>ENGINEER – GEOLOGICAL EXPLORATION</b>
FORM OF STUDY:	<b>FULL-TIME</b>
<b><i>DURATION OF STUDY</i></b>	<b>1.5 YEARS</b>

Accepted on meeting of AC of UMG "St. Iv. Rilski".  
Protocol №10/06.07.2021 г.

HEAD OF DEPARTMENT "GEOLOGY AND EXPLORATION OF  
MINERAL RESOURCES":

(Assoc. Prof. Dr. K. Popov)

DEAN:

(Assoc. Prof. Dr. B. Valchev)

**Sofia, 2021**

## CURRICULUM

**EDUCATIONAL AND QUALIFICATION DEGREE: "MASTER"**

**COURSE OF STUDY: "ECONOMIC GEOLOGY"**

**VOCATIONAL FIELD: 5.8 EXPLORATION, MINING, AND PROCESSING OF MINERALS**

**FORM OF STUDY: FULL-TIME**

**DURATION OF STUDY: 1.5 YEARS**

**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	112120	Geostatistics	E	2	2		30		60	5	
		2	112125	Isotopic Geology	E	2	2		30		60	5	
		3	272152	Economics and Management of Mineral and Energy Resources	E	2	1	15			45	4	
		4		<i>Elective course units (3 of the following)</i>	CA	2	2		30		60	5	
		5	112226	A. Technological Mineragraphy									
		6	112227	B. Organic Petrology									
			132221	C. Peri-Ore Variations of Rocks									
			112235	D. Organic Geochemistry									
			112256	E. Ecological and Geochemical Aspects in the Study of Coal									
			112249	F. Sedimentary Petrography									
		112230	G. Landscape Geochemistry										
			<i>Optional course units</i>										
	7	372300	Physical Education and Sports - 2 hours/week	CA						30**	30**	1**	
	<b>Overall for the first semester</b>					<b>3+3</b>	<b>12</b>	<b>11</b>	<b>15</b>	<b>94</b>		<b>345</b>	<b>29</b>
	Second	Second	8	112128	Metallogeny	E	3					45	5
			9	112124	Remote Sensing Methods in Geology	E	2	2		30		60	5
			10	242137	Technological Evaluation of Minerals	E	2	2	30			60	5
			11	212180	Technological and Economic Feasibility of Mineral Deposits	E	2	2	30			60	5
			12	112129	Mining Geology	CA	2	2		30		60	5
			13		<i>Elective course units</i>	CA	2	2		30		60	5
			122210	A. Facies and Paleogeographic Analysis									
			112236	B. Basin Analysis									
			112255	C. Geological and Industrial Assessment of Coal Fields									
				<i>Optional course units</i>									
14	372300	Physical Education and Sports - 2 hours/week	CA						30**	30**	1**		
<b>Overall for the second semester</b>					<b>4+3</b>	<b>15</b>	<b>12</b>	<b>60</b>	<b>92</b>		<b>405</b>	<b>35</b>	
Second	Third	15	112147	Pre-diploma practice		18 days (6 hours/day)					108	10	
		16	112158	Diploma design								15	
				Diploma defense									
<b>OVERALL FOR THE FULL COURSE OF STUDY</b>					<b>7+5</b>	<b>27</b>	<b>23</b>	<b>75</b>	<b>186</b>		<b>858</b>	<b>89</b>	

\*\* Teaching hours and credits of optional course units, which are excluded from the total.

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:	858
Academic load:	750
lectures:	405
seminars:	345
- seminars	75
- laboratory seminars	186
- practical seminars	
Extracurricular load (practical training):	108
Number of exams:	7
Items of continuous assessment:	5