



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

FACULTY OF GEOLOGY AND EXPLORATION

CURRICULUM

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

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: "PETROLEUM GEOLOGY"

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

FORM OF STUDY: PART-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	112135	Organic Geochemistry	E	22	8		8		30	5	
		2	112137	Facies and Formation Analysis	E	15	15		15		30	5	
		3	112150	Seismic Methods and Seismic Stratigraphy	E	15	22		22		37	6	
		4	112119	Unconventional Hydrocarbon Resources	E	15	15		15		30	5	
		5	122110	Drilling for Oil and Gas	E	15	15		15		30	5	
		6		<i>Elective course units (1 of the following):</i>	CA	15	15		15		30	5	
			112223	A. Computer Technologies and Modelling in Petroleum Geology									
			112215	B. Petroleum Basins									
			112260	C. Underground Energy Storage									
	Overall for the first semester					5+1	97	90		90		187	31
			7	112136	Basin Analysis	E	23	22		22		45	7
			8	142150	Well-logging	E	15	15		15		30	5
			9	272151	Economics of Hydrocarbon Resources	E	15	7	7			22	4
			10	112122	Reservoir Geology	E	15	15		15		30	5
			11	172157	Oil and Gas Production, Transport and Storage	E	15	15	15			30	5
			12		<i>Elective course units (1 of the following):</i>	CA	15	15		15		30	5
				112238	A. Marine Geology								
				142245	B. Seismotectonics								
				112220	C. Geostatistics								
Overall for the second semester					5+1	98	89	22	67		187	31	
Second	Third	13	112147	Pre-diploma practice		18 days (6 hours/day)				108	10		
		14	112158	Diploma design							15		
				Diploma defense									
OVERALL FOR THE FULL COURSE OF STUDY					10+2	195	179	22	157		482	87	

** 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: 468

Academic load: 374

lectures: 195

seminars: 179

- seminars 22

- laboratory seminars 157

- practical seminars

Extracurricular load (practical training): 108

Number of exams: 10

Items of continuous assessment: 2