



# 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>PETROLEUM 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: "PETROLEUM 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	112135	Organic Geochemistry	E	3	1		15		60	5	
		2	112137	Facies and Formation Analysis	E	2	2		30		60	5	
		3	112150	Seismic Methods and Seismic Stratigraphy	E	2	3		45		75	6	
		4	112119	Unconventional Hydrocarbon Resources	E	2	2		30		60	5	
		5	122110	Drilling for Oil and Gas	E	2	2		30		60	5	
		6		<i>Elective course units (1 of the following):</i>	CA	2	2		30		60	5	
			112223	A. Computer Technologies and Modelling in Petroleum Geology									
			112215	B. Petroleum Basins									
			112260	C. Underground Energy Storage									
				<i>Optional course units</i>									
		7	372300	Physical Education and Sports - 2 hours/week						30**	30**	1**	
		Overall for the first semester					4+2	13	12		180		375
		8	112136	Basin Analysis	E	3	3		45		90	7	
		9	142150	Well-logging	E	2	2		30		60	5	
		10	272151	Economics of Hydrocarbon Resources	E	2	1	15			45	4	
		11	112122	Reservoir Geology	E	2	2		30		60	5	
		12	172157	Oil and Gas Production, Transport and Storage	E	2	2	30			60	5	
		13		<i>Elective course units (1 of the following):</i>	CA	2	2		30		60	5	
			112238	A. Marine Geology									
			142245	B. Seismotectonics									
			112220	C. Geostatistics									
		14	372300	Physical Education and Sports - 2 hours/week	CA					30**	1**	1**	
		Overall for the second semester					4+2	13	12	45	135		375
Second	Third	15	112147	Pre-diploma practice		18 days (6 hours/day)				108	10		
		16	112158	Diploma design							15		
				Diploma defense									
OVERALL FOR THE FULL COURSE OF STUDY					8+4	26	24	45	315		858	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:	858
Academic load:	750
lectures:	390
seminars:	360
- seminars	45
- laboratory seminars	315
- practical seminars	
Extracurricular load (practical training):	108
Number of exams:	10
Items of continuous assessment:	2