

FACULTY OF GEOLOGY AND EXPLORATION

CURRICULUM

VOCATIONAL FIELD:

4.4. EARTH SCIENCES

PETROLEUM GEOPHYSICS

COURSE OF STUDY:

EDUCATIONAL AND QUALIFICATION DEGREE:

VOCATIONAL QUALIFICATION:

FORM OF STUDY:

DURATION OF STUDY:

MASTER

ENGINEER AND GEOPHYSICIST

FULL-TIME

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 "APPLIED GEOPHYSICS":

(Prof. St. Dimovski, D.Sc.)

DEAN:

(Assoc. Prof. Dr. B. Valchev)

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

FORM OF STUDY: FULL-TIME DURATION OF STUDY: 1 YEAR DURATION OF EACH SEMESTER: 15 WEEKS

Year	Semester	Nº	Course unit code	Full name of the course units (course projects, practical training)	Form of control	Teachin (wea	-		teaching h le of semir Lab	•	Overall academic load per semester	Credits acc. to ECTS
	First	1	142131	Methods of Solving III-Conditioned Problems in Geophysics	E	3	3	15	30		90	7
		2	142132	Engineering Geophysics	Е	3	3		30	15	90	7
		3	142102	Pre-Processing and Graphical Presentation of Geophysical Data	CA	2	3		45		75	5
		4	142133	Statistical Methods of Analysis, Processing, and Interpreting of Geophysical Data	Е	2	3		45		75	6
		5	142235 142236 222300	Elective course unit - Applied Mathematics - Radiowave Methods and Equipment in Geophysics - Physical Field Theory Foreign Language – Optional course unit	E	2	3	45			75	5
			372300	Physical Education and Sports – Optional course unit					174			
First		6	140120	Overall for the first semester Petroleum Geophysics	4+1 E	12 3	15 3	60	150 45	15	405 90	30 7
		7		Reservoir Engineering and Modelling	Ē	3	3		45		90	7
		8		Extraction, Transport, and Storage of Oil and Gas	 E	2	3	15	30		75	5
	Second	9	142242	Extraction, mansport, and Storage of On and Sas Elective course unit - Analysis and Automatic Processing of Geophysical Signals - Numerical Processing of Images	CA	2	3	13	45		75	5
		10	142246 142245	- Seismotectonics	E	2	3	15	30		75	6
			222300	Foreign Language – Optional course unit								
			372300	Physical Education and Sports – Optional course unit								
		Overall for the second semester				12	15	30	195		405	30
Overall for the first year					8+2	360	450	90	345	15	810	60
Development and defence of the diploma paper					0.0		450		0.45	45		15
OVERALL FOR THE FULL COURSE OF STUDY					8+2	360	450	90	345	15	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: 360
 - Seminars: 450
 - seminars 90
 - laboratory seminars 345
 - practical seminars 15
 - Number of exams: 8
 - Items of continuous assessment: 2