



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

FACULTY OF MINING TECHNOLOGY

CURRICULUM

VOCATIONAL FIELD:	5.8. EXPLORATION, MINING, AND PROCESSING OF MINERALS
COURSE OF STUDY:	OPEN PIT MINING OF MINERALS
EDUCATIONAL AND QUALIFICATION DEGREE:	MASTER
PROFESSIONAL QUALIFICATION:	MINING ENGINEER IN OPEN PIT MINING OF MINERALS
FORM OF STUDY:	FULL-TIME
DURATION OF STUDY:	1,5 YEARS (three semesters)

Adopted at a session of the Academic Council of the University of Mining and Geology "St. Ivan Rilski":
Minutes № 10/6th July 2021

HEAD OF DEPARTMENT OF DEVELOPMENT OF MINERALS: _____
(Assoc. Prof. E. Aleksandrova, PhD)

DEAN: _____
(Prof. D.Sc. Valery Mitkov)

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DURATION OF EACH SEMESTER: 1st and 2nd - 15 weeks, 3rd - 12 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	212132	Investment Process and Methods for Investment Project Assessment	E	3	2	30			75	6		
		2	212133	Underwater Mining of Minerals	E	3	2	30			75	6		
		3	212134	Course project in Underwater Mining of Minerals	CA		2	30			30	1		
		4	212164	Overground Blasting Operations	E	1	4	60			75	6		
		5	242134	Engineering practices in the Processing of Minerals and Solid Fuel	E	2	3	45			75	6		
		6	272143	Introduction to the Principles of Circular Economy	E	2	1	15			45	6		
				<i>Optional:</i>										
			372300	Physical Education and Sports	CA*		2			30	28	1*		
	Overall for the first semester					5+1	11	14	210	0	0	375	31	
	Second	Second	7	212135	Technology for Mining of Rock-Facing Materials	E	3	2	30			75	6	
			8	212136	Course project: Technology for Mining of Rock-Facing Materials	CA		2	30			30	1	
			9	212137	Construction and Maintenance of Mine Roads	E	3	2	30			75	6	
			10	212138	Mining Software	E	0	4			60	60	4	
			11	142149	Geophysical Methods of Exploration for the Purposes of Open Pit Mining	E	3	2	10		20	75	6	
			12	272147	Human Resource Management	E	3	1	15			60	6	
					<i>Optional:</i>									
				372300	Physical Education and Sports	CA*		2			30	28	1*	
	Overall for the second semester					5+1	12	13	115	0	80	375	29	
Overall for the first year					10+2	23	27	325	0	80	750	60		
Second	Third	13	212139	Design of Open Pits	E	4	3	36			84	6		
		14	212140	Course project in Open Pit Design	CA	0	2	24			24	1		
		15	212141	Quality Control of the Production of Open Pits and Quarries	E	3	3	36			72	6		
		16	212142	Design of Technical Reclamation in Open Pits and Quarries	E	3	3	36			72	6		
		17	272156	Economics for Managers	E	3	2	24			60	4		
				<i>Optional:</i>										
			372300	Physical Education and Sports	CA*		2			24	28	1*		
		18	212178	Pre-diploma practice, 10 days (60 academic hours)	CA					60	60	2		
	Overall for the third semester					4+2	13	13	156	0	0	312	23	
	Overall for the second year					4+2	13	13	156	0	0	312	23	
Development and defence of a diploma thesis											15			
OVERALL FOR THE FULL COURSE OF STUDY					14+4	36	40	481	0	80	1062	98		

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:	1062 hours
Academic load:	1062 hours
lectures:	501 hours
seminars:	561 hours
Extracurricular load (practical training):	60 hours
Number of exams:	14
Items of continuous assessment:	4