



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

FACULTY OF MINING TECHNOLOGY

CURRICULUM

VOCATIONAL FIELD:	5.8 EXPLORATION, MINING AND PROCESSING OF MINERAL RESOURCES
COURSE OF STUDY:	BLASTING WORKS AND TECHNOLOGIES
EDUCATIONAL AND QUALIFICATION DEGREE:	MASTER
VOCATIONAL QUALIFICATION:	MINING ENGINEER IN BLASTING WORKS AND TECHNOLOGIES
FORM OF STUDY:	FULL - TIME
DURATION OF STUDY:	YEAR AND A HALF (THREE SEMESTERS)

Adopted at a session of the Academic Council at the University of Mining and Geology "St. Ivan Rilski":

Minutes № 16 / 14.02.2019

HEAD OF "OPEN-PIT MINING AND BLASTING WORKS" DEPARTMENT: _____

(Prof. Dr. I. Koprev)

DEAN: _____

(Prof. Dr. I. Koprev)

CURRICULUM
EDUCATIONAL AND QUALIFICATION DEGREE: MASTER
COURSE OF STUDY: "BLASTING WORKS AND TECHNOLOGIES"
VOCATIONAL QUALIFICATION: MINING ENGINEER IN BLASTING WORKS AND TECHNOLOGIES

FORM OF STUDY: FULL-TIME
DURATION OF STUDY : 1,5 YEARS
Duration of semesters: first and second - 15 weeks, third - 12 weeks

Year	Semester	№	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours		Overall teaching hours per semester	Credits	
						L	S			
First	First	1	222125	Blasting Phenomena and Blasting Materials	Exam	3	2	75	7	
		2	222127	Norms and Regulations for Performing Blasting Operations	Exam	3	1	60	6	
		3	222148	Processes in Open-pit Mining of Mineral Resources	Exam	3	2	75	7	
		4	212119	Processes in Underground Mining of Mineral Resources	Exam	3	2	75	7	
	First Semester					4	12	7	285	27
	Second	1	222128	Methods for Controlling and Testing Blasting Materials	Exam	2	2	60	5	
		2	222147	Blasting Operations Technologies	Exam	2	2	60	5	
		3	222118	Blasting Operations Safety	Exam	3	1	60	5	
		4	222144	Blasting Operations Design	Exam	3	1	60	5	
		5	222163	Mechanisation in Blasting Operations	Exam	3	1	60	5	
		6	222164	Risk Assessment and Control in Blasting Operations	Exam	2	2	60	5	
		7	272104	Management of Human Resources	Exam	3	1	60	6	
	Second Semester					7	18	10	420	36
	Overall for the first year:					11	30	17	705	63
Second	Third	1	222121	Overground Blasting Operations	Exam	1	5	72	6	
		2	222123	Underground Blasting Operations	Exam	1	5	72	6	
		3	222119	Blasting Operations in Urban Conditions	Exam	1	5	72	6	
		4	222149	Educational and research work	Exam	1	3	48	3	
		5		Optional:	CA	1	4	60	5	
			222135	Blasting Operations Design. Special Blasting Operations						
			222265	Pyrotechnics						
		6	222152	Pre-diploma practice 10 days (60 teach. hrs.)	CA			60	2	
	Third semester:					4+2	5	22	384	28
	Master's Thesis Preparation and Defense									15
OVERALL FOR THE COURSE OF STUDY:					15+2	35	39	1089	106	

Abbreviations: 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:	1089 teach. hrs.
Academic load::	1029 teach. hrs.
lectures:	495 teach. hrs.
seminars:	519 teach. hrs.
Extracurricular load (practical training):	60 teach. hrs.
Number of exams per course of study:	15

