



CURRICULUM

VOCATIONAL FIELD:	5.8 EXPLORATION, MINING AND PROCESSING OF MINERAL RESOURCES
COURSE OF STUDY:	OPEN-PIT EXPLOITATION OF MINERAL RESOURCES
EDUCATIONAL AND QUALIFICATION DEGREE:	MASTER
VOCATIONAL QUALIFICATION:	MINING ENGINEER IN OPEN-PIT EXPLOITATION OF MINERAL RESOURCES
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: "OPEN-PIT EXPLOITATION OF MINERAL RESOURCES"
 VOCATIONAL QUALIFICATION: MINING ENGINEER IN OPEN-PIT EXPLOITATION OF MINERAL RESOURCES

FORM OF STUDY: FULL-TIME

DURATION OF STUDY : 1,5 YEARS

Durartion 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	222135	Overground Blasting Operations. Design of Blasting Operations	Exam	4	3	105	7		
		2	222136	Course project: Design of Blasting Operations	CA		1	15	1		
		3	222143	Methods and Models for Controlling the Processes in Open-pit Mining	Exam	3	2	75	6		
		4	222129	Investment Process and Assessment Methods for Investment	Exam	3	2	75	6		
		5	222131	Underwater Mining of Mineral Resources	Exam	3	2	75	6		
		6	222132	Course project: Underwater Mining of Mineral Resources	CA		2	30	1		
	First Semester					4+2	13	12	375	27	
	Second	Second	1	222162	Mining Software	Exam		4	60	6	
			2	272104	Management of Human Resources	Exam	3	1	60	6	
			3	222145	Construction and Maintenance of Mining Roads	Exam	3	2	75	6	
			4	222139	Technologies for Dimension Stone Mining	Exam	3	2	75	6	
			5	222140	Course project: Technologies for Dimension Stone Mining	CA		2	30	1	
			6	142142	Geophysical surveying methods implemented in open-pit mining	Exam	3	2	75	6	
			7		Optional:	Exam	2		30	2	
				412212	Mining Laws and Regulations						
			11	272236	Organizational Behaviour and Business Communication						
	Second Semester					6+1	14	13	405	33	
	Overall for the first year:					10+3	27	25	780	60	
	Second	Third	12	222173	Product quality control for mining sites and quarries	Exam	3	3	72	6	
			222174	Mining Reclamation Design for Mining Sites and Quarries	Exam	3	3	72	6		
			222133	Open-pit Mine Designing	Exam	4	3	84	6		
			222134	Course project: Open-pit Mine Designing	CA		2	24	1		
			272149	Economics for Managers	Exam	3	2	60	4		
			222152	<i>Pre-diploma practice 10 days (60 teach. hrs.)</i>	CA			60	2		
Third semester:					4+2	13	13	372	25		
Master's Thesis Preparation and Defense									15		
OVERALL FOR THE COURSE OF STUDY:					14+5	40	38	1092	100		

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: 1152 teach. hrs.

Academic load:: 1092 teach. hrs.

lectures:	561 teach. hrs.
seminars:	531 teach. hrs.
Extracurricular load (practical training:	60 teach. hrs.
Number of exams per course of study:	14
Items of continuous assessment:	5

