

FACULTY OF MINING TECHNOLOGY

CURRICULUM

VOCATIONAL FIELD:

COURSE OF STUDY:

EDUCATIONAL AND QUALIFICATION DEGREE:

PROFESSIONAL QUALIFICATION:

FORM OF STUDY:

DURATION OF STUDY:

5.8. EXPLORATION, MINING, AND PROCESSING OF MINERALS

BLASTING EQUIPMENT AND TECHNOLOGY

MASTER

MINING ENGINEER IN BLASTING EQUIPMENT AND TECHNOLOGY

FULL-TIME

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)

CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: MASTER COURSE OF STUDY: BLASTING EQUIPMENT AND TECHNOLOGY PROFESSIONAL QUALIFICATION: MINING ENGINEER IN BLASTING EQUIPMENT AND TECHNOLOGY

VOCATIONAL FIELD: 5.8. EXPLORATION, MINING, AND PROCESSING OF MINERALS

FORM OF STUDY: FULL-TIME

DURATION OF STUDY: 1,5 YEARS (three semesters)

DURATION OF EACH SEMESTER: 1^{st} and 2^{nd} - 15 weeks, 3^{rd} - 12 weeks

Year	Semester	ą	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	s acc. to CTS
						L	S	S	Lab	Ρ	load per semester	Credit: E(
	First	1	212154	Principles in the Theory of the Blasting Phenomenon and Blasting Agents	Е	3	3	45			90	7
		2	212155	Norms and Regulations for Performing Blasting Operations	E	2	2	30			60	5
		3	212156	Control and Methods for the Testing of Blasting Materials	СА	2	2	30			60	5
		4	212157	Technology of Open Pit Mining of Minerals	Е	2	2	30			60	6
		5	212158	Technologies of Underground Mining of Minerals	Е	2	2	30			60	6
				Optional:								
<u>st</u>			372300	Physical Education and Sports	CA*		2			30	28	1*
Firs				Overall for the first semester	4+1	11	13	165	0	30	330	29
	Second	6	212159	Blasting Operations Safety	E	2	2	30			60	5
		7	212160	Design of Blasting Operations	E	2	2	30			60	5
		8	212161	Blasting Operation Technologies	Е	2	2	30			60	5
		9	212162	Mechanisation in Blasting Operations	СА	2	2	30			60	5
		10	212163	Risk Assessment and Control in Blasting Operations	СА	2	2	30			60	5
		11	272147	Human Resource Management	E	3	1	15			60	6
				Optional:								
			372300	Physical Education and Sports	CA*		2			30	28	1*
				Overall for the second semester	4+2	13	13	165	0	30	360	31
		1	1	Overall for the first year	8+3	24	26	330	0	60	690	60
		12	212164	Overground Blasting Operations	Е	1	5	60			72	6
Second		13	212165	Underground Blasting Operations	Е	1	5	60			72	6
		14	212166	Blasting Operations in Urban Conditions	Е	1	5	60			72	6
	Third	15	212167	Educational and research work	E	1	3	36			48	3
		16	232147	Fundamentals of Pyrotechnics. Production of Pyrotechnic Articles	Е	3	3				72	6
				Optional:								
			372300	Physical Education and Sports	CA*		2			24	28	1*
		17	212178	Pre-diploma practice, 10 days (60 academic hours)	CA						60	2
				Overall for the third semester	5+1	7	21	216	0	24	396	29
	Overall for the second year					7	21	216	0	24	396	29
┣	Development and defence of a diploma thesis				10 1	0.1	47		-		100/	15
OVERALL FOR THE FULL COURSE OF STUDY							4/	546	0	84	1086	104

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:	1086 hours
Academic load:	1086 hours
lectures:	519 hours
seminars:	642 hours
Extracurricular load (practical training):	60 hours
Number of exams:	13
Items of continuous assessment:	4