

MODULAR EDUCATIONAL PROGRAM for admission for the 2021-22 academic year

Educational program 7M07203 - "Mining Engineering "

Group of educational programs M116 - "Mining Engineering"

Form of study: daytime

Study duration: 2 years

Academic degree: Master of Engineering Science

Year of study	Discipline Code	Name of disciplines	semester	Cycle	Credits	Total hours	classroom volume lx / lab / pr	ISW (including ISWT) in hours	form of control	Competencies
Basic training module										
University component										
1	LNG210	Foreign language (professional)	1	BD IC	5	150	0/0/3	105	E	no
1	HUM210	History and philosophy of science	2	BD IC	4	120	1/0/1	90	E	no
1	HUM209	Higher education pedagogy	2	BD IC	4	120	1/0/1	90	E	no
1	HUM208	Psychology of management	1	BD IC	3	90	1/0/1	60	E	no
Required Component / Component of choice										
1	MIN258	Innovative methods of drilling and blasting operations	1	BD RC	5	150	2/0/1	105	E	MIN442
1	MIN278	Technology of integrated development of underground space	2	BD RC	5	150	2/0/1	105	E	MIN101
1	MIN259	Continuous Career Design Methodology	2	BD RC	5	150	2/0/1	105	E	MIN101
1	MIN260	Geotechnological processes in the development of mineral deposits	2	BD IC	5	150	2/0/1	105	E	MIN101
1	MIN280	Process regulations and mining planning								MIN101
Profile training module										
Required Component / Component of choice										
1	MIN268	Digital technology in mining SMART Mine	1	PD RC	5	150	1/0/2	105	E	MIN101
1	MIN299	The Code on Subsurface Resources and legal regimes in subsurface use	1	PD RC	5	150	2/0/1	105	E	MIN101
1	MIN297	Rational technologies of vertical mining operations	2	PD OC	5	150	2/0/1	105	E	MIN448
1	MIN271	Innovative methods of securing mining and underground structures								MIN448
2	MIN273	Design of underground mines	3	PD OC	5	150	2/0/1	105	E	MIN101
2	MIN211	Methodology of designing of underground construction								MIN448
2	MIN253	Technology of construction of metropolitan	3	PD OC	5	150	2/0/1	105	E	MIN448
2	MIN285	Modernization of the processes of horizontal and inclined mine workings								MIN442
2	MIN700	Highly rhythmic safe production of mining operations in deep quarries	3	PD OC	5	150	2/0/1	105	E	MIN101
2	MIN701	Intensification of reclamation of lands disturbed by open mining operations								MIN101
2	MIN295	Technology of laying-of the developed space	3	PD OC	5	150	2/0/1	105	E	MIN448
2	MIN296	Rational technologies for development of placer deposits								MIN101
2	MIN298	Resource-saving complex development of mineral resources	3	PD OC	5	150	2/0/1	105	E	MIN101
2	MIN294	Methods of coal mining in sections								MIN101
Practice-oriented module										
	AAP244	Pedagogical practice	2	BD IC	4				Report	
	AAP236	Research practice	4	PD OC	7				Report	
Science-research module										
	AAP242	Research work of a master's student, including an internship and a master's thesis	1	NIRM	6				Report	
	AAP242	Research work of a master's student, including an internship and a master's thesis	2	NIRM	6				Report	
	AAP242	Research work of a master's student, including an internship and a master's thesis	3	NIRM	6				Report	
	AAP242	Research work of a master's student, including an internship and a master's thesis	4	NIRM	6				Report	

Final certification module

Required component

ECA205	Registration and defense of a master's thesis	4	IA	12				Defense of dissertations
--------	---	---	----	----	--	--	--	--------------------------

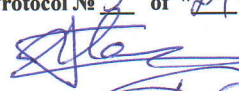
The number of credits for the entire period of study

Discipline cycles	Credits
Cycle of basic disciplines (BD IC, BD OC)	35
Cycle of majors (PD OC, PS OC)	52
Total theoretical training:	87
MSSR	24
Registration and defense of a master's thesis	12
TOTAL:	123

The decision of the Academic Council of KazNRTU named after K. Satpaeva. Protocol № 3 of "25" 06 2021 y.

Decision of the Academic Council of the Institute _____ . Protocol № 5 of "24" 12 2021 y.

Vice-Rector for Academic Affairs

 B.A. Zhautikov

Director of the Institute

 K.B. Rysbekov

Head of the Department

 S.K. Moldabaev

Representative of the Specialty Council from employers

 N.S. Buktukov