

MODULAR EDUCATIONAL PROGRAM for admission for the 2020-2021 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
Component of choice										
1	MIN258	Innovative methods of drilling and blasting operations	1	BD OC	5	150	2/0/1	105	E	MIN442
1	MIN278	Technology of integrated development of underground space								MIN101
1	MIN260	Geotechnological processes in the development of mineral deposits	2	BD OC	5	150	2/0/1	105	E	MIN101
1	MIN280	Process regulations and mining planning								MIN101
1	MIN261	Rational technology of vertical mining	2	BD OC	5	150	2/0/1	105	E	MIN448
1	MIN271	Innovative methods of securing mining and underground structures								MIN448
Profile training module										
Required Component / Component of choice										
1	MIN283	Subsoil Code and rights regimes in subsoil use	1	PD RC	5	90	1/0/1	60	E	MIN101
1	MIN268	Digital technology in mining SMART Mine	1	PD RC	5	150	1/0/2	105	E	MIN101
1	MIN259	Continuous Career Design Methodology	2	PD RC	5	150	2/0/1	105	E	MIN101
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								MIN448
2	MIN286	Highly safe mining operations in deep quarries	3	PD OC	5	150	2/0/1	105	E	MIN101
2	MIN287	Intensification of reclamation of lands disturbed by open-pit mining								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								MIN448
2	MIN284	Resource Saving Integrated 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		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)	40
Cycle of majors (PD OC, PS OC)	53
Total theoretical training:	93
MSSR	24
Registration and defense of a master's thesis	12
TOTAL:	129

The decision of the Academic Council of KazNRTU named after K. Satpaeva. Protocol № 3 of "25" 05 2024 y.

Decision of the Academic Council of the Institute _____ . Protocol № 5 of "24" 12 2024 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