



APPROVED
Chairman of the Management Board-
Rector of KazNRTU named after K.Satpayev
A.M. Begentaev
2023 y.

CURRICULUM

of Educational Program on enrollment for 2023-2024 academic year

Educational program 7M07203 - "Mining Engineering"
Group of educational programs M116 - "Mining Engineering"

Form of study: full-time		Duration of study: 2 year			Academic degree: master of technical sciences						
Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	SIS (including TSSIS) in hours	Form of control	Allocation of face-to-face training based on courses and semesters			
								1 course		2 course	
								1 semester	2 semester	3 semester	4 semester
CYCLE OF BASIC DISCIPLINES (BD)											
M-1. Module of basic training (university component)											
LNG210	English (professional)	BD UC	5	150	0/0/3	105	E			5	
HUM214	Management Psychology	BD UC	3	90	1/0/1	60	E	3			
HUM212	History and philosophy of science	BD UC	3	90	1/0/1	60	E	3			
HUM213	Higher school pedagogy	BD UC	3	90	1/0/1	60	E			3	
Component of choice											
Module methods of scientific research											
MIN258	Innovative methods of drilling and blasting operations	BD CCH	5	150	2/0/1	105	E			5	
TEC297	Innovative installation and commissioning methods for machines and equipment										
MIN260	Geotechnological processes in the development of mineral deposits	BD CCH	5	150	2/0/1	105	E			5	
MIN280	Process regulations and mining planning	BD CCH	5	150	2/0/1	105	E			5	
MIN278	Technology of integrated development of underground space										
TEC281	Test methods for mining machines and stationary units										
CYCLE OF PROFILE DISCIPLINES (PD)											
M-2. Module of professional activity (university component, component of choice)											
Mining Production Support Module											
MIN268	Digital technology in mining SMART Mine	PD UC	5	150	1/0/2	105	E			5	
MIN299	The Code on Subsurface Resources and legal regimes in subsurface use	PD UC	5	150	2/0/1	105	E			5	
MIN297	Rational technologies of vertical mining operations	PD UC	5	150	2/0/1	105	E	5			
MIN704	Continuous Career Design Methodology	PD UC	5	150	2/0/1	105	E			5	
Module for implementing innovations in mining											
MIN273	Design of underground mines	PD CCH	5	150	2/0/1	105	E			5	
MIN211	Methodology of designing of underground construction										
MIN253	Technology of construction of metropolitan	PD CCH	5	150	2/0/1	105	E	5			
MIN285	Modernization of the processes of horizontal and inclined mine workings										
MIN700	Highly rhythmic safe production of mining operations in deep quarries	PD CCH	5	150	2/0/1	105	E	5			
MIN701	Intensification of reclamation of lands disturbed by open mining operations										
MIN295	Technology of laying-of the developed space	PD CCH	5	150	2/0/1	105	E			5	
MIN296	Rational technologies for development of placer deposits										

MIN298	Resource-saving complex development of mineral resources	PD CCH	5	150	2/0/1	105	E	5			
MIN294	Methods of coal mining in sections										
M-3. Practice-oriented module											
AAP229	Pedagogical practice	BD UC	6					6			
AAP269	Research practice	PD, CCH	8						8		
M-4. Experimental research module											
AAP251	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	2						2		
AAP241	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	3					3			
AAP254	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	5					5			
AAP255	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	14						14		
M-5. Module of final attestation											
ECA205	Preparation and defense of a master's thesis	FA	8						8		
Total based on UNIVERSITY:								30	30	30	30
								60	60		

Number of credits for the entire period of study					
Cycle code	Cycles of disciplines	Credits			Total
			university component (UC)	component of choice (CCH)	
BD	Cycle of basic disciplines		20	15	35
PD	Cycle of profile disciplines		28	25	53
	<i>Total for theoretical training:</i>	0	48	40	88
	RWMS				24
FA	Final attestation	8			8
	TOTAL:	8	48	40	120

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol № 3 "27" october 2022 y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol № 2 "21" october 2022 y.

Decision of the Academic Council of the Mining and Metallurgical Institute. Protocol № 2 "17" october 2022 y.

Vice-Rector for Academic Affairs

Director of the Institute of Mining and

Head of the Department "Mining"

Council representative from employers

B. Zhautikov

K. Rysbekov

S. Moldabayev

B. Bakhrarov