



APPROVED
Chairman of the Management Board
Rector of KazNRTU named after K. Satpaev
M.M. Begenbaev
2023 y.

CURRICULUM
of Educational Program on enrollment for 2023-2024 academic year

Educational program 8D07203 - "Mining Engineering"
Group of educational programs D116 - "Mining Engineering"

Form of study: full-time		Duration of study: 3 year				Academic degree: Doctor PhD								
Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	SIS (including TESIS) in hours	Form of control	Allocation of face-to-face training based on courses and semesters						
								1 course		2 course		3 course		
								1 semester	2 semester	3 semester	4 semester	5 semester	6 semester	
CYCLE OF BASIC DISCIPLINES (BD)														
M-1. Module of basic training (university component)														
MET322	Scientific research methods	BD UC	5	150	2/0/1	105	E	5						
LNG305	Academic writing	BD UC	5	150	0/0/3	105	E	5						
Component of choice														
MIN313	Geotechnical support for the development of underground space	BD CCH	5	150	2/0/1	105	E	5						
MIN324	Management of the spatial position of the contours of deep quarries													
MIN311	The development of the theory and design methods of drilling and blasting operations in the development of mineral deposits													
CYCLE OF PROFILE DISCIPLINES (PD)														
M-2. Module of professional activity (component of choice)														
MIN314	Innovative technologies for the extraction of uranium by in-situ leaching	PD, CCH	5	150	2/0/1	105	E	5						
MIN315	Scientific support of technical solutions for underground mining processes													
MIN316	Automated design and production of mass explosions in open pits													
MIN317	Physico-chemical geotechnology	PD, CCH	5	150	2/0/1	105	E	5						
MIN320	Designing the combined development of mineral deposits													
MIN319	Scientific substantiation of the construction of special underground structures													
M-3. Practice-oriented module														
AAP350	Pedagogical practice	BD UC	10						10					
AAP355	Research practice	PD UC	10							10				
M-4. Experimental research module														
AAP336	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	5					5						
AAP347	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	40						20	20				
AAP356	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	60								30	30		
AAP348	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	18											18
M-5. Module of final attestation														
ECA303	Writing and defending a doctoral dissertation	FA	12											12
Total based on UNIVERSITY:								30	30	30	30	30	30	
								60	60	60	60	60		

Number of credits for the entire period of study					
Cycle code	Cycles of disciplines	Credits			
			university component (UC)	component of choice (CCH)	Total
BD	Cycle of basic disciplines		20	5	25
PD	Cycle of profile disciplines		10	10	20
	<i>Total for theoretical training:</i>	<i>0</i>	<i>30</i>	<i>15</i>	<i>45</i>
	RWDS				123
FA	Final attestation	12			12
	TOTAL:	12	30	15	180

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

B. Zhautikov

Director of the Institute of Mining and Metallurgical

K. Rysbekov

Head of the Department "Mining"

S. Moldabayev

Council representative from employers

B. Bakhrarov