



WORKING CURRICULUM  
Educational program - 7M07203 - "Mining Engineering"  
enrolment for 2021- 2022 academic year M116 - "Mining Engineering"

Full-time study

Term of study: 2 year

Academic degree: Master of Engineering and Technology (profile direction)


Year of study	Code	Name of course	Component	Credits	Total hours	Lecture/ laboratory/ practice	SIS (including STIS), in hours	Prerequisites	Code	Name of course	Component	Credits	Total hours	Lecture/ laboratory/ practice	SIS (including STIS), in hours	Prerequisites			
1	1 semester								2 semester										
	LNG210	Foreign language (professional)	BD IC	5	150	0/0/3	105		AAP244	Pedagogical practice	BD IC	4							
	HUM208	Management psychology	BD IC	3	120	1/0/1	90		HUM210	History and philosophy of science	BD IC	4	120	1/0/1	90				
	MIN258	Innovative methods of drilling and blasting operations	BD OC	5	150	2/0/1	105		MIN260	Geotechnological processes in the development of mineral deposits	BD OC	5	150	2/0/1	105				
	MIN299	Subsoil Code and rights regimes in subsoil use	PS IC	5	150	2/0/1	105		MIN280	Process regulations and mining planning	BD OC								
	MIN268	Digital technology in mining SMART Mine	PS IC	5	150	2/0/1	105		MIN297	Rational technology of vertical mining	BD OC	5	150	2/0/1	105				
	AAP242	Master's student scientific research, including an internship and a master's thesis.	MSSR	6					MIN271	Innovative methods of securing mining and underground structures	BD OC								
									MIN259	Continuous Career Design Methodology	PS IC	5	150	2/0/1	105				
									MIN278	Technology of integrated development of underground space	BD OC	5	150	2/0/1	105				
									AAP242	Master's student scientific research, including an internship and a master's thesis.	MSSR	6							
					29								38						
	2	3 semester								4 semester									
MIN273		Design of underground mines	PS OC	5	150	2/0/1	105		AAP236	Research scientific training	PS	7							
MIN211		Methodology for the construction of underground structures																	
MIN253		Metro Underground Construction Technology	PS OC	5	150	2/0/1	105		ECA205	Registration and defense of the master's thesis (RaDMT)	FA	12							
MIN285		Modernization of the processes of horizontal and inclined mine workings																	
MIN700		Highly safe mining operations in deep quarries	PS OC	5	150	2/0/1	105												
MIN701		Intensification of reclamation of lands disturbed by open-pit mining																	
MIN295		Technology of laying-of the developed space	PS OC	5	150	2/0/1	105												
MIN296		Rational technologies for development of placer deposits																	
MIN298		Resource Saving Integrated Mineral Resources	PS OC	5	150	2/0/1	105			AAP242	Master's student scientific research, including an internship and a master's thesis.	MSSR	6						
MIN294		Methods of coal mining in sections																	
AAP242		Master's student scientific research, including an internship and a master's thesis.	MSSR	6															
				31								25							

Cycles of disciplines	Credits
The cycle of general education	0
A cycle of basic disciplines ( BD IC, BD OC)	35
A cycle of principal subjects (PS IC, PS OC)	52
All on the theoretical classes:	87
MSSR	24
Registration and defense of the master's thesis (RaDMT)	12
<b>In total</b>	<b>123</b>

Decision of the Academic Board of KazNRTU named after K.I.Satpayev. Protocol No. 3 of "25" 06 2021.

Decision of the Academic Board of the Institute of Geology, Oil and mining Protocol No. 5 of "24" 12 2021

Vice-rector for academic affairs  B.A. Zhautikov

Director of the Institute of Geology, Oil and mining  A.Kh. Syzdykov

Head of the Department "Mining"  S.K. Moldabayev

Chairman of the Specialty Council from employers  N.S. Buktukov