MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHS ANTEY YHUS

NPJSC KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED A

Сәтбаев Университеті



Affirm ed KI Satpayev'' K. Beisembetov

CURRICULUM

Educational program - "Mining Engineering

set of 2019 - 2020 academic year

Academic degree: Master of Technical Sciences (scientific and pedagogical direction) Duration of study: 2 years

Year of study	Code	Name of the discipline	Component	Total volume of credits	Aud. Volume Lc / lb / pr	Form of control	Prerequisites	Code	Name of the discipline	Component	Total volume of credits	Aud. Volume Lc / Ib / pr	Form of control	Prerequisites
				ECTS	¥	- R	<u> </u>				ECTS	PK	P ₀	4
	Term 1							Term 2						
	LNG205	Foreign language (professional)	BD UC	5	3	0/0/3		MIN259	Continuous Career Design Methodology					Ex
	MIN268	Digital technology in mining SMART Mine	PD UC	5	3	1/0/2		MIN279	Methodology of mining science and research methods	BD CC	5	3	2/0/1	Ex
	MIN281	The development of the construction of shafts	PD CC	4	2	1/0/1		MIN260	Geotechnological processes in the development of mineral deposits	BD CC	5	3	2/0/1	Ex
	MIN282	Mounting fastenings in the construction of underground structures						MIN280	Process regulations and mining planning	BDCC		3	2/0/1	Ex
1	MIN283	Subsoil Code and rights regimes in subsoil use	PD CC	4	2	1/0/1		HUM201	History of philosophy and science	BD UC	4	2	1/0/1	Ex
	MIN284	Resource Saving Integrated Mineral Resources	1000	-	-	170/1		HUM207	Pedagogy of Higher education	BD UC	4	2	1/0/1	Ex
	MIN250	Innovative methods of drilling and blasting operations	BD CC	5	3	2/0/1		HUM204	Psychology of management	BD UC	4	2	1/0/1	E
	MIN278	Technology of integrated development of underground space						AAP226	Master's research work	MRW	7	2		Rep
		Mathematical modeling of engineering problems (Python MatLab)	PD UC	5	3	1/0/2								
	AAP225	Teaching practice	BD UC	3	3		Report							
							Kepoit						1	
		Total:	_	31	19		Кероп		Total:		29	14		
		Term	3	0752	2.51		Keport		Total:	4	29	14		
1 1	MIN253		a:	31	19	2/0/1	Report	AAP234		4 MRW	9	2		
	MIN253 MIN285	Term Metro Underground Construction	3 PD CC	0752	2.51	2/0/1	Report	AAP234 AAP314	Term					
		Term Metro Underground Construction Technology Modernization of the processes of	PD CC	5	3		Report		Term Master's research work	MRW	9	2		
	MIN285	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings	a:	31	19	2/0/1	Report	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
	MIN285	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures Intensification of reclamation of lands	PD CC	5	3		Кероп	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
2	MIN285 MIN273 MIN211	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures	PD CC	5	3		Report	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
2	MIN285 MIN273 MIN211 MIN287	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures Intensification of reclamation of lands disturbed by open-pit mining Highly safe mining operations in deep	PD CC	5 5 4	3 3 2	2/0/1	Кероп	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
2	MIN285 MIN273 MIN211 MIN287 MIN286	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures Intensification of reclamation of lands disturbed by open-pit mining Highly safe mining operations in deep quarries	PD CC	5	3 3	2/0/1	Сероп	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
2	MIN285 MIN273 MIN211 MIN287 MIN286 MIN289	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures Intensification of reclamation of lands disturbed by open-pit mining Highly safe mining operations in deep quarries Mining management Technology of laying-of the develped	PD CC PD CC PD CC	5 5 4 4	3 3 2 2	2/0/1	Teport.	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
2	MIN285 MIN273 MIN211 MIN286 MIN289 MIN290	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures Intensification of reclamation of lands disturbed by open-pit mining Highly safe mining operations in deep quarries Mining management Technology of laying-of the develped space Rational technologies for development	PD CC	5 5 4	3 3 2	2/0/1	(Caponia)	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		
2	MIN285 MIN273 MIN211 MIN287 MIN286 MIN289 MIN290 MIN291	Metro Underground Construction Technology Modernization of the processes of horizontal and inclined mine workings Design of underground mines Methodology for the construction of underground structures Intensification of reclamation of lands disturbed by open-pit mining Highly safe mining operations in deep quarries Mining management Technology of laying-of the develped space Rational technologies for development of placer deposits	PD CC PD CC PD CC	5 5 4 4	3 3 2 2	2/0/1	Report	AAP314	Master's research work Research practice Registration and protection of the	MRW PD	9	2		

The decision of the Academic Council of the Satbayev University. Protocol № 1 or "12 "08 2019 y. The decision of the Scientific Council MMI. Protocol № 8 от "3/" 05 _20<u>/9</u> y.

Vice-Rector for Research and Academic Affairs

D.K. Nauryzbaeva

/ Director of the School of geology, petroleum and mining engineering & Checha.Syzdykov

Head of the Department "Mining engineering"

K.B. Rysbekov