MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN

					Kasali un	RibHbuild Mc	нститут Геологии и офтегазового дела Питерација имени и урысова турикова аридоти	Appro eology, Oil ai	ved by: nd Mining institute A.H.Syzdykov
			MAJOR ELECTIVE DISCIPLINES for 2019-2020 academi	ic vear ad	mission	feo/	трысов заличать потия жан ком расти ісі институты и ОРН ж «возви И Ул + јанез	100 100 100 100 100 100 100 100 100 100	2019.
			Educational program 6B07205 - "Mining en		g"	THE BARES		LED STAT	
1	Full-time stu	dy	Study duration : 4 years Academic degree: bachelor of engin	eering an	d technolog	ay egues	OFH * "6838	CH HINGSIG	
of stud	Code of elective	Code of discipline	Name of discipline	Cycle	Credits	total times	lecture/ laboratory/ practice	SIS (including STIS), in hours	Prerequisites
-		LNG103	2 semester						
1	1106	LNG102	Culture of business communication Rhetoric	G	4	120	0/0/2	75	DK(R)Ya 1102.2
			in total:		4		2		
F	2208	GEN146	Теоретическая и прикладная механика 3 semester	В	5		2/1/0	405	DUNITED
F			In total:	B	5		2/1/0 5	105	PHY112
F		LNG 109	IELST Preparation 4 semester	1				1	
		LNG 110	Intercultural Communication						L D D LA PRIMA
	2111	LNG 117 LNG 118	Technical Writing Public speaking	G	4	120	0/0/0		
		LNG 119	Productivity skills		4	120	0/0/3 1/0/2 2/0/1	105	LNG 1056
2		LNG 120 LNG 121	GRE preparation Academic Writing	9201364	Str. Note				
		MIN142	Processes of open cast mining						MIN101
		MIN106	Deposit opening and devoloment when underground mining		201				MIN101
	2214	MIN107	Deposit opening and devolopment when uranium undeground borehole	в	5	150	2/0/1		MIN101
		MIN141	Industrial explosives				1/1/1 2/0/1		MIN101
		MIN128 MAP138	Mechanics of underground structures General course of mine surveying	-					MIN180
			In total:		9		1/2/0 6		MAP160
-		L. muses	5 semester		-				
		MIN460 MIN454	Interconnection and planning of open cast mining processes Underground mining operations processes		-		2/0/1		MIN101
	3217	MIN461	Uranium deposits underground mining geotechnology	в	5	150	2/0/1 2/0/1		MIN101 MIN101
		MIN462	Underground construction facilities				2/0/1		MIN101
		MAP529 TEC186	Mine surveying drawing Opencast mine mining -and -transport equipment				0/0/3		MAP160
	3218	PED147	Mining-and-transport equipment of underground mines	в	5	150	2/0/1 2/0/1	105	MIN101 MIN101
L		MIN455	Shield tunneling complexes			26.0.2	2/0/1		
		MIN463 MIN464	Special methods of conductieg open cast mining operations Design and computer style for mining operations development plans	1			2/0/1		MIN101
1	3302	MIN465	Mining drawing when uranium deposits underground mining	р	5	150	1/0/2 1/0/2		MIN101 MIN101
	3302	MIN456 MIN457	Technology of construction of tunnels	1 '	5	150	2/0/1	105	MIN101
		MAP520	Ways to support underground structures Surveying-geodesy instruments				2/0/1 1/0/2		MIN101 MAP160
F			in total:		15		9		MAP 100
		MIN466	Resource-saving and low-waste technology on ore mines	ГТ			2/0/1		MIN101
		MIN467	Mineral deposits underground mining systems	1			2/0/1 2/0/1		MIN101
_	3221	MIN468 MIN469	Solutions hydraulics when uranium development	В	5	150			MIN101
3		MAP531	Technology of construction of vertical mine workings Mine surveying at open pit mining				2/0/1 1/0/2		MIN101 MAP160
		MIN470	Technological complexes of open cast mining operations				2/0/1 2/0/1		MIN101
	3304	MIN483 MIN471	Rock conditions management Geotechnological wells drilling and operation	Р	5	150			MIN101
		MIN472	Calculation of the design of underground structures	r	2	150			MIN101 MIN101
		MAP528	GIS cartography in mining						MAP160
		MIN473	Open development of building materials						MIN101
		MIN474	Technology and complex mechanization of underground mining				2/0/1		MIN101
	3305	MIN475	Equipment of geotechnological fields at uranium dillhole in situ leaching	Р	5		2/0/1	105	MIN101
		MIN476	Design of construction of mining facilities				2/0/1		VIN101
			Mine surveying for the construction of mines				1/0/2		MAP160
			Conducting mine workings at quarries Underground mines air supply		~		1/0/2		VIN101
			Fields development in special conditions			ŀ	2/0/1 2/0/1		MIN101 MIN101
	3306	MIN485	Special drilling and blasting operations	P	5	150	2/0/1	105	MIN101
			Construction of underground hydraulic structures				2/0/1	1	MIN101
H		MAP521	Mine surveying at open pit mining In total:				1/0/2	1	MAP138
t			7 semester		20		12		
			Prospective and current planning of open cast mining operations Product guality management		1		2/0/1	1	/IN101
		MIN489	Technology and mechanization of piling works	-		ŀ	2/0/1 2/0/1		/IN101
			Separate methodes of uranium deposits development	Ρ	5	150	2/0/1	105	/IN101
			Designing of blasting operations Designing of construction of underground mining enterprises				2/0/1 2/0/1		/IN101
L		MAP525	Mine Survey of underground development systems			8	1/0/2		/IN101 //AP160
			Reclamation of disturbed lands on mines Layout of underground mines plan		5		2/0/1	1	/IN101
1	4310	MIN498	Uranium deposits conservation	Р		150	2/0/1 2/0/1		/IN101 /IN101
			Technology of construction of horizontal and inclined mine workings Geometry of subsoil				2/0/1	N	/IN101
		MIN477	Geometry of subsoli Opening of career fields				1/0/2 1/0/2		/AP160 /IN101
F	ī								
F			Opening of career fields			L	2/0/1		/IN101
	4222	MIN479	Geotechnological methods of development of solid minerals Special ways of building underground structures	в	5	150	2/0/1 2/0/1 2/0/1	105	/IN101 /IN101 /IN101

		In total:		15		9			
8 semester									
	MIN496	Design of ore and coal mines	Р	5	150	1/0/2		MIN101	
	MIN497	Mines conservation				2/0/1	1	MIN101	
4308	MIN501	Layout of underground deposits plan				2/0/1	105	MIN101	
	MIN499	Reconstruction of mines and underground structures				2/0/1		MIN101	
_	MAP527	Mine survey software				1/0/2		MAP160	
	MIN500	Systems of open development of mineral deposits	Р	5	150	1/0/2	105	MIN101	
	MIN441	Sheet deposits underground mining				2/0/1		MIN101	
4311	MIN432	Underground development of indigenous and alluvial deposits				2/0/1		MIN101	
	MIN433	Technology of construction of urban underground structures				2/0/1		MIN101	
-	MAP526	Mine surveying of the construction of tunnels				1/0/2		MAP126	
_		in total:		10		6			
		Credits numbers of elective disciplines over the entire peri	iod of stu	udy				•	
		Cycles of disciplines		Credits 9					
		Cycle of general disciplines (G)							
		Cycle of basic disciplines (B)		25 40					
		Cycle of special disciplines (S)							
		Total		74					

Decision of the Academic Board of the Institute

Head of the Department "Mining"

Protocol No. 5 of "24" 12 2022.

S.K.Moldabayev

Representative of the Specialty Council from employers

N.S. Buktukov