

Rector of KazNKO & named after Kal Satpayev

MODULAR EDUCATIONAL PROGRAM for recruitment to 2021-2022 academic retrospectional program 6B07204 - "Petroleum Engineering"

Group of educational programs 6B071 - Mining and extraction of minerals"

		Form of study: full-time Duration (of study: 3 year	rs		Academic d	legree: Bac	chelor of En	igineering a	nd Technology
Year of study	Discipline code	Name of disciplines	semester	Cycle	Credits	Total hours	classroom volume of lek/lab/pr			Competencies
		M	odule of soci	al discip	lines				1	
-		1	Required co	ompone	nt					
1	HUM100	Modern History of Kazakhstan (state exam)	2	G	5	150	1/0/2	105	Е	GC 4,8
2	HUM132 CHE451	Philosophy	1	G	5	150	1/0/2	105	Е	GC 4,8
2	CHE451	Ecology sustainable development Life safety	4	G	2	60	1/0/0	45	Е	GC 3,4,5,7
2	MNG487	Fundamentals of Entrepreneurship, leadership and anti- corruption culture	3	G	3	90	1/0/0 1/0/I	60	E E	GC 3,4,5,7 GC 5,7,8,9
			cio-political	knowled	dge module	e				
			Required co						1.	
1 HUM126 Social-political knowledge 2 G 8 240 4/0/0 180 E								E	GC 2,3,8	
Module of physical and mathematical training, computer science and chemistry									0.0 2,5,0	
			Universit			4				
1	PHY112	Physics II	1	В	5	150	1/1/1	105	Е	GPC 3
1	CSE677	Information and communication technologies	2	G	5	150	2/1/0	105	Е	GPC 1,2
			Compon	ent of cl	hoice		SIII .			
1	MAT102	Mathematics II					1/0/2			
1	MAT103	Mathematics III	1	В	5	150	1/0/2	105	Е	GPC 1,2
		Modul	e of basic ge	neral tec	hnical trai	ining				Agran and the same
			Universit							
1	GEN408	Strength of materials	1	В	5	150	1/1/1	105	Е	GPC 2,3,4
1	CHE559	Chemistry of oil and gas	1	В	5	150	2/1/0	105	E	GPC 3
1	GEO482	General and structural geology	2	В	5	150	2/1/0	105	E	
1	PET411	Reservoir rock properties								GPC 3, PC 2,3,4
1			1	В	5	150	2/1/0	105	Е	GPC 3, PC 2,3
_	PET409	Thermodynamics and heat engineering	2	В	5	150	1/0/2	105	E	GPC 3, PC 1
1_	PET410	Fluid mechanics	2	В	5	150	1/1/1	105	E	GPC 3, PC 2,3
1	GEO486	Geology of oil and gas	2	В	5	150	2/1/0	105	Е	GPC 3,4 PC 2,3,4,5,7
2	PET412	Oil and gas well drilling	3	В	5	150	2/1/0	105	Е	GPC 4, PC 2,3,4
2	PET415	Revervoir fluid propeties	3	В	5	150	2/1/0	105	Е	GPC 3, PC 2,3
2	PET416	Revervoir engineering I: Primary recovery	3	В	5	150	1/0/2	105	Е	PC 1,2,4,5,8
2	PET418	Petroleum Engineering seminar	3	В	5	150	2/1/0	105	E	PC 1,2,4,5,8
2 .	PET422	Revervoir engineering II: Secondary and tertiary recovery	4	В	5	150	1/0/2	105		PC 1,2,4,5,8
2	PET424	Well log analysis	4	В	5				E	
	111727					150	2/1/0	105	Е	PC 1,2,3
-			Professional							
	DET 10.6		Universit							
2	PET426	Well completion	4	S	5	150	2/0/1	105		GPC 3,4 PC 2,3,4,5,7
3	PET425 PET436	Petroleum Production Engineering Economic evaluation of oil and gas projects	4	S	5	150	1/1/1	105		GPC 3,4 PC 2,3,4,5,7
3	PET435	Oil and gas facilities design and operation	5	S	5	150	1/0/2	105		GPC 1,3,4 PC 1,2,5,7
3	PET441	Multidisciplinary petroleum project	6	S	5	150	1/0/2 2/1/0	105 105		GPC 4, PC 2,3,4 GPC 3,4 PC 2,5,7,8
ï	121111	manuscipinally perioleum project	Compone			130	2/1/0	103	E	GPC 3,4 PC 2,3,7,8
	PET417	Petroleum regulations and practices	J	The or the	oice		2/0/1			GPC 2,3 PC 2,3,4,5
	PET114	Drilling solutions					2/0/1			GPC 2, PC 2,3,4,5
2	PET420	Natural gas engineering	3	S	5	150	2/0/1	- 105 I	B 1	
	PET427	Design and operation of oil and gfs pipelines				-				PC 1,2,4,5
	PET421	Reservoir geomechanics	-		-		1/0/2			GPC 4, PC 2,3,4
,	PET423	Geostatistica			_	150	2/0/1	105		GPC 2,3, PC 3,4,5,7
3	PET428	Design and operation of pump and compressor stations	4	S	5	150	2/0/1	105		GPC 2,3, PC 3,4,5,7,8
	PET428 PET437	Well stimulation					1/0/2			GPC 4, PC 2,3,4,8
	PET437 PET431	Revervoir engineering III: reservoir simulation	5	S	5	150	2/0/1	105	F 1	GPC 2, PC 1,2,3,4
	PET431	Directional drilling					2/0/1			PC 1,2,4,5,8
- 1	PET432 PET434				ا ا	150	2/0/1	105		GPC 4, PC 2,3,4
		Design and operation of oil and gas storages	5	S	5	150	1/0/2	105		GPC 4, PC 2,3,4
		Artificial lift systems					1/1/1			GPC 3,4, PC 2,4
	PET442	Well testing					2/1/0			GPC 1,2,3 PC 3,4,5,6
3	PET440	Well workover	5	S	5	150	2/0/1			GPC 3, PC 3,4
	PET430	Computer - aided design					2/0/1			GPC 4, PC 2,3,4
š	PET438	Development of offshore fields					1/0/2	L Division of the second		GPC 3,4 PC 1,2,5
	IDETA10	Correction of all and are any invent	1 /	S	5	150	0/0/1	2/0/1 105		CDC A 4 DC A
3	PET419 PET429	Corrosion protection of oil abd gas equipment Multiphase flow systems	6	9	2	130	2/0/1	103	Е	GPC 2,4, PC 2

	Ì		Practice-or	iented n	odule				
	Required component								
1.	AAP141	Production practice I	2		4	GPC 1-4, PC 1-8			
2	AAP166	Production practice II	4		8	GPC 1-4, PC 1-8			
			Module of fi	nal certi	fication				
	Required component								
	ECA003	Preparation and writing of a thesis (project)*	8	FC	6	GPC 1-4, PC 1-8			
	ECA103	Defense of the thesis (project)*	8	FC	6	GPC 1-4, PC 1-8			
		N	Iodule of additio	nal type	s of training				
	Component of choice								
1	AAP107	Sports club sectional	5-7		0				
2-3	AAP500	Military affairs	3-6		0				

	Number of credits for the entire period of study						
Cycles of disciplines				Credits			
		mandatory	elective	Total			
Cycle of general edu	cation disciplines	30		30			
Cycle of basic discip	79		79				
Cycle of profile disci	plines	33	30	63			
	Total for theoretical training:	142	30	172			
Final certification		12	0	12			
	total:	154	30	184			

The decision of the Academic Council of Kazntu named after K.Satpayev. Protocol No. 3 "25" 06 202/r.

Decision of the Academic Council of the Institute_

. Protocol № 5 "24" 12 20 10 r.

Vice-Rector for Academic Affairs

Director of the Institute

Head of the Department "Petroleum engineering"

Representative of the Specialty Council from employers

B.A.Zhautikov

A.H. Syzdykov

G.Zh.Yeligbayeva

N.A. Nysangaliev