



Challman of the Board – Rector of KAZNRTU named after K.I.Satbayev

WORKING EDUCATIONAL PLAN
for 2020-2021 academic year admission
Educational program 6B07204 - "Petroleum Engineering"
Group of Educational programs 6B071 - Mining and extraction of minerals"

Full-time study Study duration : 4 years Academic degree: bachelor of engineering and technology

Код	Name of discipline	Cycle	Total amount in loans	Total hours	classroom volume lec/lab/pr	SRS (including SRSP), in hours	pre-requisites	Code	Name of discipline	Cycle	Total amount in loans	Total hours	classroom volume lec/lab/pr	SRS (including SRSP), in hours	pre-requisites
	1st semester (Fall 2	(02(1)		,					2 семестр (вес	на 2021)					
LNG 1051 LNG 1052	Beginner (A1) Elementary English (A1)							LNG 1052	Elementary English (A1)	_					LNG 1051
LNG 1052	General English 1 (A2)						Diagnostic	LNG 1053 LNG 1054	General English 1 (A2) General English 2 (A2)	- 0	100	1 9			LNG 1052
LNG 1054	General English 2 (A2)	0	6	180	0/0/3	135	test	LNG 1054	Academic English (B1)	- 0	6	180	0/0/3	135	LNG 1053 LNG 1054
LNG 1055	Academic English (B1)						1451	LNG 1056	Business English (B2)	1.4		1. 1			LNG 1055
LNG 1056	Business English (B2)							LNG 1057	Professional English (B2+)			10	6 4 1	·	LNG 1056
LNG1012	Kazakh/Russian (A2)				-1-1-		Diagnostic	LNG1102.1	Academic Kazakh/Russian (B1)						LNG10121
LNG1012.1	Academic Kazakh/Russian (B1)	0	4	120	0/0/2	75	test	LNG1102.2	Business Kazakh/Russian (B2)	0	6	180	0/0/3	135	LNG1012.
LNG1012.2	Business Kazakh/Russian (B2)							1106	ELECTIVE	-	-	-	*		LNG1012.
PHY110	Introduction to Physics	В	6	180	1/1/1	105	Diagnostic	PHY111	Physics I	В	6	180	1/1/1	105	PHY110
PHY111	Physics I	В					test	PHY112	Physics II	1			1		PHY111
MAT00110	Algebra and introduction to calculus	В	6	180	1/0/2	105	Diagnostic	MAT101	Mathematics I	В	6 .	180	1/0/2	105	MAT100
MAT101	Mathematics I	В		-00	21012	100	test	MAT102	Mathematics II		1.0	100	1/0/2	103	MAT101
HUM113	Contemporary history of Kazakhstan	0	6	180	1/0/2	105	no	CHE192	Chemistry	В	6	180	2/1/0	. 105	no ·
PET103	Introduction to Major	S	6	180	1/1/1	105	no	GEN128	Theoretical mechanics	В	6	180	2/0/1	105	no
KFK101	Physical training I	0	4	120	0/0/2	30	no	KFK102	Physical training II	0	4	120	0/0/2	30	no
	Total:		38						Total:		40				
	3th semester (Fall	2021)							4th semester (Sp	oring 202	2)			- 3	
HUM132	Philosophy	0	5	180	2/0/1	105	no	HUM126	Social-political knowledge	0	8	240	4/0/0	180	no
GEN408	Strength of materials	В	5	180	2/1/0	105	PHY112	GEO486	Geology of oil and gas	В	5	150	2/1/0	105	no
MAT102	Mathematics II	_ n	-	180	1/0/2	105	Mat 101	CSE677	Information and Communication Technologies	0	5	150	2/1/0	105	no
MAT103	Mathematics III	В	5	180	1/0/2	105	Mat 102	PET409	Thermodynamics and heat engineering	В	5	150	1/0/2	105	PHY112
CHE559	Chemistry of oil and gas	В	5		2/1/0	105	CHE192	PET410	Fluid mechanics	В	5	150	1/1/1	105	no .
PET411		В	5	180		105		GEO482	General and structural geology	В	5	150	2/1/0	105	no
PE1411	Reservoir rock properties Total:	В	25	-	2/1/0	105	no	GE0482	Total:	В	33	130	2/1/0	105	110
+		20221	23	1					6th semester (S)	ring 202		-			
MNG487	5th semester (Fall Fundamentals of Entrepreneurship, Leadership, and anti-	0	3	90	1/0/1	60	no	CHE451	Ecology and sustainable development	0	2	60	1/0/0	45	no
PET412	Corruption culture Oil and gas well drilling	В	5	150	2/1/0	105	no	CHE452	Life safety	0	2	60	1/0/0	45	no
PET415	Revervoir fluid propeties	В	5	150	2/1/0	105	PET133	3303	ELECTIVE	S	- 5	150			no
PET416	Revervoir engineering I: Primary recovery	В	5	150	1/0/2	105	no	PET426	Well completion	S	5	150	2/0/1	105	PET101
PET418		В	5	150	2/1/0	105		PET425		S	5	150	1/1/1	105	PET103
3302	Petroleum Engineering seminar ELECTIVE	S	5	150	2/1/0	103	no	PET425	Petroleum production engineering Revervoir engineering II: Secondary and tertiary	В	5	150	1/0/2	105	PET124
								PET424	recovery Well log analysis	В	5	150	2/1/0	105	PET176
		T													100
-	Total:	+	28	1			1		Total:		29				
	7th semester (Fall	2023)	J				-		8th semester (S	oring 202	(4)				
4306	ELECTIVE	S	5	150			no	ECA003	Preparation for diploma project	FA	6	1			
4307	ELECTIVE	S	5	150	1		no	ECA103	Diploma project defense	FA	6				
		+	5	150	-	-	-	PET113	Multidisciplinary petroleum project	S	5	150	2/1/0	105	no
4308	ELECTIVE	S	-	-			no	-			_	150	2/1/0	103	
PET111	Economic evaluation of oil and gas projects	S	5	150	1/0/2	105	no	4312	ELECTIVE	S	5	150			no
PET435	Oil and gas facilities design and operation	S	5	150	1/0/2	105	PET134	-		+	-	+			-
											_		-		
	Total:		25						Total:		22	1			

_			Cycle	a 11:		Total number of credits					
9 0	Code	Name of discipline		Credits	Semester			C	redits		
Obligatory academic elements with P/NP assessment					•	Cycle of disciplines	mpul	dditio	otal		
1	AAP161	Study internship (B)	В	2	2	4 4	8	90	-		
2	AAP141	Industrial Internship I (Π)	В	4	4	Cycle of general disciplines (G)	. 55	6	61		
3	AAP166	Inclustrial Internship II (П)	П	8	6	Cycle of basic disciplines (B)	112	0	112		
		Additional academic e	lernents	S		Cycle of special disciplines (S)	39	30	69		
1	AAP107	Sectional sports club	0	0	5-7	Total of theoretical study:	206	36	242		
2-3	AAP500	Military training	В	0	3-6	Final attestation (FA)	12	0	12		
_	700.000					OVERALL:	218	36	254		

Decision of Academic council of KAZNRTU named after K.I.Satbayev. Minutes No. 3, 25, 06, 20 20

Decision of Board of Studies of Institute. Minutes Nº 5, 24. /2. , 20 20

Vice-Rector for Academic Affairs

Director of the Institute

Head of the "Petroleum Engineering" department

Representative of Specialty Council

B.A. Zhautikov

A.H. Syzdykov

G. Yeligbayeva

N.A. Nysangaliev

CAE

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN SATPAYEV UNIVERSITY

Институт Геологии и
нефтерроборо

Director of the Institute of Geology, Petroleum, and

A.Kh. Syzdykov

Feonorma Walte Dy Ham-ray

MAJOR ELECTIVE DISCIPLINES for 2020-2021 academic year admission

Petroleum Engineering (within 6B072 Production and processing industries)

Full-time study

Study duration: 4 years

Academic degree: bachelor of engineering and technology

year or study	Elective code	Code	Name of course	Component	credit	lec/ lab/pr	Prerequisite
			2th semester				
	No.	LNG109	ELTS Preparation				
		LNG110	Intercultural Communication	To Solid Maria			
1	1106	LNG117	Technical Writing				
•	1100	LNG118	Public speaking	G	6	0/0/3	LNG 1056
		LNG119	Productivity skills	- march mot this	ngsirut	Withold I	Herepleiste, a
		LNG120	GRE preparation			Shirotellyk	
		LNG121	Academic Writing	- Landania			
			Total:		6		
	*		5th semester				
		PET417	Petroleum regulations and practices			2/0/1	no
	3302	PET414	Drilling solutions			2/0/1	PET112
		PET420	Natural gas engineering	S S	5	2/0/1	PET133
3	re ^e	PET427	Design and operation of oil and gfs pipelines			1/0/2	no
3			Total:		5		
		PET421	6th semester	1			
			Reservoir geomechanics	- company		2/0/1	PET101
	3303	PET423	Geostatistica	S	5	2/0/1	no
	-0	PET428	Design and operation of pump and compressor stations		1100	1/0/2	no
			Total: 7th semester		5		
	1000	PET187	Well stimulation			2/0/1	PET124
	4306	PET431	Revervoir engineering III: reservoir simulation	S	5	2/0/1	PET125
		PET432	Directional drilling		1.1.1	2/0/1	PET101
4	4307	PET434	Design and operation of oil and gas storages	S	5	1/0/2	PET 172
4		PET439	Artificial lift systems			1/1/1	PET125
	4308	PET442	Well testing			2/1/0	PET133
		PET440	Well workover	S	. 5	2/0/1	PET101
		PET430	Computer - aided design			2/0/1	AUT109
			Total: 8th semester	.1	15	100	
		PET438	Development of offshore fields			1/0/2	PET 134
	4312	PET419	Corrosion protection of oil abd gas equipment	-	5	2/0/1	no
		PET429	Multiphase flow systems	S		1/0/2	PET124
		11 1723	Total:	- 1111	5	1/0/2	FLI124

Credits numbers of elective disciplines over the enti	re period of study	,
Cycle of disciplines	credits	
Cycle of general disciplines (G)	. 6	
Cycle of basic disciplines (B)	0	
Cycle of special disciplines (S)	30	
Total:	36	

By the decision of the Academic Council of the Institute Minutes Nº 5, dated "4",

Head of the "Petroleum Engineering" department

Representative of Specialty Council

THE

G. Yeligbayeva

N.A. Nysangaliev

SHE