

APPROVED
Director of the Institute of Geology, Petroleum,
A.Kh. Szydkov
20.06.2019



MAJOR ELECTIVE DISCIPLINES for 2019-2020 academic year admission

Petroleum Engineering (within 68072 Production and processing industries).

Full-time study

Study duration : 4 years

Academic degree: bachelor of engineering and technology

Year of study	Elective code	Code	Name of course	Component	credit	lec/ lab/pr	Prerequisites	
4th semester								
2	2111	LNG109	IELTS Preparation	G	6	0/0/3	LNG 1056	
		LNG110	Intercultural Communication					
		LNG117	Technical Writing					
		LNG118	Public speaking					
		LNG119	Productivity skills					
		LNG120	GRE preparation					
		LNG121	Academic Writing					
Total:					6			
5th semester								
3	3302	PET417	Petroleum regulations and practices	S	5	2/0/1	no	
		PET414	Drilling solutions			2/0/1	PET112	
		PET419	Corrosion protection of oil and gas equipment			2/0/1	no	
		PET420	Natural gas engineering			2/0/1	PET133	
		PET427	Design and operation of oil and gfs pipelines			1/0/2	no	
	Total:				5			
	3305	PET421	Reservoir geomechanics	S	5	2/0/1	PET101	
		PET423	Geostatistica			2/0/1	no	
		PET428	Design and operation of pump and compressor stations			1/0/2	no	
Total:					5			
6th semester								
4	4306	PET437	Well stimulation	S	5	2/0/1	PET124	
		PET433	Flow assurance			1/0/2	PET124	
		PET431	Revervoir engineering III: reservoir simulation			2/0/1	PET125	
	4307	PET432	Directional drilling	S	5	2/0/1	PET101	
		PET434	Design and operation of oil and gas storages			1/0/2	PET172	
	4308	PET439	Artificial lift systems	S	5	1/1/1	PET125	
		PET442	Well testing			2/1/0	PET133	
		PET440	Well workover			2/0/1	PET101	
		PET430	Computer - aided design			2/0/1	AUT109	
Total:					15			
7th semester								
5	4311	PET438	Development of offshore fields	S	5	1/0/2	PET 134	
		PET429	Multiphase flow systems			1/0/2	PET124	
Total:					5			
8th semester								

Credits: numbers of elective disciplines over the entire 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 № 5, dated "24/12/2020"

Head of the "Petroleum Engineering" department

G. Yeligbayeva

Representative of Specialty Council

N.A. Nysangaliev