Ministry of Science and Education of the Republic of Azerbaijan
"Azerbaijan State Oil and Industry University" Public Legal Entity

"Confirm"
Acting Rector, assoc. professor
V.E.Askarov
"12" 09 2023

Speciality: «050611-Geological and Geophysical engineering»
Duration of study: 4 years (8 semesters)

CURRICULUM
(Bachelor`s level)
I. SCHEDULE OF EDUCATIONAL PROCESS

Courses	September				29 IX	October			27 X	November				December				29 XII	January			26 I	February			23 II	March				30 III	April			27 IV	May				June				29 VI	July			27 VII	August			
	1	8	15	22	5 X	6	13	20	2 XI	3	10	17	24	1	8	15	22	4 I	5	12	19	1 II	2	9	16	1 III	2	9	16	23	5 IV	6	13	20	3 V	4	11	18	25	1	8	15	22	5 VII	6	13	20	1 VIII	2	9	16	23
	7	14	21	28		12	19	26		9	16	23	30	7	14	21	28		11	18	25		8	15	22		8	15	22	29		12	19	26		10	17	24	31	7	14	21	28		12	19	26		8	15	22	29
I										::								::	::	::	::	::	=	=															::	::	::	::	::	=	=	=	=	=	=	=	=
II	=	=								::								::	::	::	::	::	=	=													X	X	X	X	::	::	::	::	::	=	=	=	=	=	=	=	=
III	=	=								::								::	::	::	::	::	=	=													X	X	X	X	::	::	::	::	::	=	=	=	=	=	=	=	=
IV	=	=								::								::	::	::	::	::	=	=									::	X	X	X	X	X	X	X	X	||	||	||	||	||							

Symbols : Theoretical training ☐ Exam session : Practical work X Final State attestation || Holidays =

II. PLAN OF THE EDUCATIONAL PROCESS

##	The subject code	The subject name	Credits	Total hours	Hours outside the auditorium	Auditorium time				C.W C.P	Prerequisit	Korekvizit	Semester	Weekly lesson load
						Total	Including by type of teaching							
							Lectures	Seminars, Training	Practica work					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	HS-B00	**Humanitarian subjects**	**30**	**900**	**480**	**420**	**105**	**315**						
1	HS-B01	The history of Azerbaijan	5	150	90	60	30	30					2	4
2	HS-B02	Business and academic communication in the Azerbaijani language	4	120	75	45	15	30					1	3
3	HS-B03.1	Foreign Language: General English and Speech Practice	8	240	120	120		120					1	8
4	HS-B03.2	Foreign Language: Academic vocabulary and reading. Social communication skills	7	210	105	105		105					2	7
		Elective subjects	**6**	**180**	**90**	**90**	**60**	**30**						
5	HES-B04	Block I: 1) Philosophy; 2) Sociology; 3)Constitution of the Republic of Azerbaijan and bases of law; 4) Logic; 5) Ethics and aesthetics;6) Introduction to multiculturalism	3	90	45	45	30	15		00			3	3
6	HFS-B05	Block II: 1) Information technology (in speciality); 2) Information management; 3) Basics of entrepreneurship and introduction to business; 4) political science	3	90	45	45	30	15					2	3
	VSS-B00	**Vocational training subjects of the speciality**	**180**	**5400**	**3584**	**1816**	**1017**	**634**	**165**					
			120	**3600**	**2358**	**1242**	**697**	**380**	**165**					
7	VSS-B01	Analytic geometry and linear algebra	4	120	60	60	30	30					1	4
8	VSS–B02.1	Calculus -1	4	120	60	60	30	30					2	4
9	VSS-B02.2	Calculus -2	4	120	75	45	30	15			VSS-B02.1		3	3
10	VSS-B03	Applied mathematics	4	120	76	44	22	22					4	4
11	VSS-B04.1	Physics -1 (Fundamentals of physics)	5	150	90	60	30	15	15				2	4
12	VSS-B04.2	Physics-2 (Applied physics)	6	180	120	60	30	15	15		VSS-B04.1		3	4
13	VSS-B05	General chemistry	7	210	150	60	30		30				1	4
14	VSS-B06	Geochemistry	4	120	60	60	30	30					5	4
15	VSS-B07	Hydrogeology and engineering geology	5	150	90	60	30		30				5	4
16	VSS-B08	Fundamentals of geophysics	6	180	135	45	30		15				4	3
17	VSS-B09	Introduction to Engineering Design	6	180	120	60	30	30					3	4
18	VSS-B10	Structural geology and geological mapping	7	210	135	75	45		30	C.P.			4	5
19	VSS-B11	General geology	6	180	120	60	30	30					1	4
20	VSS-B12	Geodesy	5	150	105	45	30		15				3	3
21	VSS-B13	Fundamentals of the oil and gas geology	5	150	90	60	30	30					5	4
22	VSS-B14	Petroleum field geology	5	150	95	55	33	22		C.P.			6	5
23	VSS-B15	Seismic exploration	6	180	125	55	33	22		C.P.			6	5
24	VSS-B16	Electrical and gravimagnetic exploration	7	210	155	55	33	22					4	5
25	VSS-B17	Well logging methods	5	150	90	60	30	30		C.P.			5	4
26	VSS-B18	Fundamentals of geodynamics	7	210	166	44	33	11					2	4
27	VSS-B19	Mineralogy, petrography and lithology	6	180	135	45	30		15				3	3
28	VSS-B20	Economics and Management	3	90	60	30	15	15					5	2
29	VSS-B21	Civil defense	3	90	46	44	33	11					6	4
		Elective subjects (Vacational training)	**60**	**1800**	**1226**	**574**	**320**	**254**						
30	VTES-B01	Block I 1. Geological Base of Hydrocarbon Reservoir Development and new methods 2. Gas-hydrate and gas-condensate fields 3. Processing and interpretation of seismic data 4. Basics of geophysical data processing	9	270	165	105	60	45		C.P.			7	7

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							Including by type of teaching							
							Lectures	Seminars, training	Practica work					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
31	VTES-B02	Block II 1. Geodynamic environments of oil and gas basins 2. Natural and synthetic regimes of oil fields 3. Petrophysics 4. Structure-formation and AVO analysis	10	300	212	88	55	33					6	8
32	VTES-B03	Block III 1. Prospecting and exploration of oil and gas fields 2. Modern problems of oil mining geology 3. Interpretation of electrical exploration data 4. Geophysical control development of oil and gas fields	9	270	198	72	40	32		C.P.			8	9
33	VTES-B04	Block IV 1.Calculation of oil and gas reserves and mathematical geology 2. Geological support of well operation 3. Processing and interpretation of gravimagnetic data 4. Shooting Works in Wells	7	210	150	60	30	30					7	4
34	VTES-B05	Block V 1. Geology of oil and gas fields 2. Geochemical methods in the assessment of oil and gas 3. Comprehensive interpretation of well geophysical data 4. Mining geophysical tools and equipments	9	270	180	90	45	45					7	6
35	VTES-B06	Block VI 1. Geoecology 2. Geological and geophysical search methods 3. Geophysical ecology; 4. Processing systems and algorithms in geophysics	8	240	180	60	30	30					5	4
36	VTES-B07	Block VII 1.Technical English 2.Classical and fuzzy logic	3	90	66	24		24					8	3
37	VTES-B08	Block VIII HSE	2	60	30	30	30						7	2
38	VTES-B09	Block IX Projects Management	3	90	45	45	30	15					7	3

III. TRAINING COURCE ALLOTTED TIME
(weeks)

Education year	Theoretical training	Exam session	Practice	Final State attestation	Holidays	Total
I	30	10	-	-	10	50
II	26	10	4	-	12	52
III	26	10	4	-	12	52
IV	23	6	6	5	4	44
Total:	105	36	14	5	38	198

IV. INDICATORS OF THE EDUCATION PROCESS

Semester	1	2	3	4		5	6		7	8		9	Total
				Theoritical training	Practice		Theoritical training	Practice		Theoritical training	Practice	Preparation of the release work and its protection	
Credits	29	31	30	24	6	30	24	6	30	12	9	9	240
Number of exams	5	6	6	4		6	4		5	2			38
Hours per week	23	26	20	17		22	22		22	12			

Presented by:

1. Vice Rector for Academic Affairs — **associate professor G.A. Mamedov**

2. Dean of the Geological Exploration Faculty — **associate professor N.V. Pashayev**

3. Head of the chair of "Geophysics" — **professor V.M. Seyidov**

4. Head of the chair of "Petroleum Geology" — **associate professor K.Z. Mukhtarova**

5. Head of the chair of "Geology and development of mineral deposits" — **associate professor Z.C. Afandiyeva**