

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

III-IV k
2020



“Confirm”
 Assoc. Professor
V.E.Askarov
 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				October				November				December				January				February				March				April				May				June				July				August														
	1	8	15	22	5	12	19	26	3	10	17	24	1	8	15	22	4	11	18	25	1	8	15	22	5	12	19	26	2	9	16	23	1	8	15	22	3	10	17	24	1	8	15	22	5	12	19	26	2	9	16	23	1	8	15	22	5	12	19
I																																																											
II																																																											
III																																																											
IV																																																											

LEGEND : Theoretical training Exam session Practical work 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	Prerequisite	Korekvizit	Semester	Weekly lesson load	
						Total	Including by type of teaching							
							Lectures	Seminars, Training						Practical work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	HS-B00	Humanitarian subjects	30	900	486	414	108	306						
1	HS-B01	Azerbaijan history	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	Business and academic communication in a foreign language-General English	4	120	75	45		45					1	3
4	HS-B03.2	Business and academic communication in a foreign language: Speech Practice – Development of speech skills	4	120	60	60		60					2	4
5	HS-B03.3	Business and academic communication in a foreign language: Academic Vocabulary and Reading –Academic vocabulary and reading skills	4	120	60	60		60					3	4
6	HS-B03.4	Business and academic communication in a foreign language: Social communication skills- Social communication activity	3	90	35	55		55					4	5
		Elective subjects	6	180	91	89	63	26						
7	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	46	44	33	11					4	4
8	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					3	3
	VSS-B00	Vocational training subjects of the speciality	180	5400	3584	1816	1017	634	165					
			120	3600	2358	1242	697	380	165					
9	VSS-B01	Analytic geometry and linear algebra	4	120	60	60	30	30					1	4
10	VSS-B02.1	Calculus -1	4	120	60	60	30	30					2	4
11	VSS-B02.2	Calculus -2	4	120	75	45	30	15			VSS-B02.1		3	3
12	VSS-B03	Applied mathematics	4	120	76	44	22	22					4	4
13	VSS-B04.1	Physics -1 (Fundamentals of physics)	5	150	90	60	30	15	15				2	4
14	VSS-B04.2	Physics -2 (Applied physics)	6	180	120	60	30	15	15		VSS-B04.1		3	4
15	VSS-B05	General chemistry	7	210	150	60	30		30				1	4
16	VSS-B06	Geochemistry	4	120	60	60	30	30					5	4
17	VSS-B07	Hydrogeology and engineering geology	5	150	90	60	30		30				5	4
18	VSS-B08	Fundamentals of geophysics	6	180	135	45	30		15				3	3
19	VSS-B09	Introduction to Engineering Design	6	180	120	60	30	30					2	4
20	VSS-B10	Structural geology and geological mapping	7	210	135	75	45		30	C.P.			3	5
21	VSS-B11	General geology	6	180	120	60	30	30					1	4
22	VSS-B12	Geodesy	5	150	105	45	30		15				2	3
23	VSS-B13	Fundamentals of the oil and gas geology	5	150	90	60	30	30					5	4
24	VSS-B14	Petroleum field geology	5	150	95	55	33	22		C.P.			6	5
25	VSS-B15	Seismic exploration	6	180	125	55	33	22		C.P.			6	5
26	VSS-B16	Electrical and gravimagnetic exploration	7	210	155	55	33	22					4	5
27	VSS-B17	Well logging methods	5	150	90	60	30	30		C.P.			5	4
28	VSS-B18	Fundamentals of geodynamics	7	210	166	44	33	11					4	4
29	VSS-B19	Mineralogy, petrography and lithology	6	180	135	45	30		15				2	3
30	VSS-B20	Economics and Management	3	90	60	30	15	15					5	2
31	VSS-B21	Civil defense	3	90	46	44	33	11					6	4
	VTES-B00	Elective subjects (Vacational training)	60	1800	1226	574	320	254						
32	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

№	The subject code	The subject name	Credits	Total hours	Hours outside the auditorium	Total	Auditorium time			C.P. C.W	Prerequisite	Korekvizit	Semester	Weekly Lesson load
							Including by type of teaching							
							Lectures	Seminars, training	Practical work					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
33	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	
34	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	
35	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	
36	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	
37	VTES-B06	Block VI 1. Geocology 2. Geological and geophysical search methods 3. Geophysical ecology; 4. Processing systems and algorithms in geophysics	8	240	180	60	30	30				5	4	
38	VTES-B07	Block VII 1. Technical English 2. Classical and fuzzy logic	3	90	66	24		24				8	3	
39	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 COURSE 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
				Theoretical training	Practice		Theoretical training	Practice		Theoretical training	Practice		
Credits	30	30	30	24	6	30	24	6	30	12	9	9	240
Number of exams	6	6	6	5		6	4		5	2			40
Hours per week	22	22	22	22		22	22		22	12			

Presented by:

- Vice Rector for Academic Affairs
- Dean of the Geological Exploration Faculty
- Head of the chair of "Geophysics"
- Head of the chair of "Petroleum Geology"
- Head of the chair of "Geology and development of mineral deposits"

Mamedov
Pashayev
Seyidov
Mukhtarova
Afandiyeva

associate professor G.A. Mamedov
associate professor N.V. Pashayev
professor V.M. Seyidov
associate professor K.Z. Mukhtarova
associate professor Z.C. Afandiyeva