

MINISTRY OF SCIENCE AND EDUCATION OF THE AZERBAIJAN REPUBLIC  
 "AZERBAIJAN STATE OIL AND INDUSTRY UNIVERSITY" PLE

Approved:

Acting Rector,

« 2023 »



Assoc. prof. Vazeh Askarov

Specialty: 050631 Oil and Gas Engineering  
 Education Period 4 Years (8 Terms)

CIRRICULUM  
 (BACHELOR'S DEGREE)  
 I. EDUCATIONAL PROCESS SCHEDULE

Courses	September				October			November				December				January			February			March				April			May				June			July			August						
	1	8	15	22	6	13	20	3	10	17	24	1	8	15	22	5	12	19	2	9	16	2	9	16	23	6	13	20	4	11	18	25	1	8	15	22	6	13	20	2	9	16	23		
I																																													
II																																													
III																																													
IV																																													

LEGEND: Theoretical Training □ Examination □ Practical Training X Final State Attestation II Holidays =

II. EDUCATIONAL PROCESS PLAN

№	Discipline Code	Discipline Name	Credits Amount	Total Hours	Out-of-Lecture Hall Hours	Lecture Hall Hours				T. P.	Prerequisite Subjects Code	Corequisite Subjects Code	Term	Weekly Load
						General	Lecture	Seminar Training	Laboratory					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	HS-B00	Humanitarian Subjects	30	900	495	405	90	315						
1	HS-B01	History of Azerbaijan	5	150	90	60	30	30					2	4
2	HS-B02.1	Business and Academic Communication in Foreign Language - General English	4	120	60	60		60					1	4
3	HS-B02.2	Business and Academic Communication in Foreign Language - Speech Practice	4	120	60	60		60					2	4
4	HS-B02.3	Business and Academic Communication in Foreign Language - Academic Vocabulary and Reading	3	90	45	45		45					3	3
5	HS-B02.4	Business and Academic Communication in Foreign Language - Social Communication Skills	4	120	60	60		60					4	4
6	HS-B03	Business and Academic Communication in Azerbaijani Language	4	120	75	45		45					3	3
		Elective Subjects												
7	ES-B04	I bloc: 1) Philosophy; 2) Sociology; 3) Constitution of the Republic of Azerbaijan and Basics of Law; 4) Ethics & Aesthetics; 5) Introduction to Multiculturalism; 6) Logic	3	90	60	30	30						4	2
8	ES-B05	II bloc: 1) Information Technology; 2) Information Management; 3) Basics of Entrepreneurship and Introduction to Business; 4) Political Science	3	90	45	45	30	15					5	3
	VVS-BOO	Vocational Training (Specialty Subjects)	120	3600	2295	1305	780	300	225					
9	VVS-B01	Linear Algebra and Analytic Geometry	4	120	75	45	30	15					1	3
10	VVS-B02.1	Calculus -1	4	120	75	45	30	15					1	3
11	VVS-B02.2	Calculus -2	4	120	75	45	30	15			VVS-B02.1		2	3
12	VVS-B03	Differential Equations	4	120	75	45	30	15					3	3
13	VVS-B04	Probability Theory and Mathematical Statistics	4	120	90	30	30						4	2
14	VVS-B05	Introduction to Petroleum Engineering	4	120	90	30	30						1	2
15	VVS-B06	Basics of Physics	6	180	120	60	30	15	15				2	4
16	VVS-BO7	Applied Physics	6	180	120	60	30	15	15				3	4
17	VVS-B08	General Chemistry	7	210	135	75	30	15	30				1	5
18	VVS-BO9	Physical and Analytical Chemistry	6	180	120	60	30		30				2	4
19	VVS-B10	Mechanics	5	150	105	45	30	15					2	3
20	VVS-B11	Fluid Flow Mechanics	6	180	120	60	30	15	15				3	4
21	VVS-B12	Reservoir Fluid Flow	7	210	135	75	45	15	15				3	5
22	VVS-B13	Petrophysics & Formation Evaluation	7	210	120	90	45	15	30				4	6
23	VVS-B14	Senior Design	7	210	135	75	30	45					1	5
24	VVS-B15	Civil Protection	3	90	45	45	30	15					6	3
25	VVS-B16	Mathematical and Statistical Tools of Petroleum Data Processing	5	150	105	45	30	15					4	3
26	VVS-B17	Drilling Engineering	6	180	105	75	45	15	15				5	5
27	VVS-B18	Well Completion	6	180	105	75	45	15	15	T/Pa			6	5
28	VVS-B19	Production Engineering	6	180	105	75	45	15	15	T/Pr			5	5
29	VVS-B20	Transportation Phenomenon	4	120	90	30	30						4	2
30	VVS-B21	Reservoir Engineering	6	180	105	75	45	15	15	T/Pa			5	5
31	VVS-B22	Geophysical Surveys of Oil and Gas Wells	3	90	45	45	30		15				4	3
		Vocational Training (Elective Subjects)	60	1800	1185	615	375	195	45					
32	VTES-BO1	I Block 1) Off-Shore Gas and Condensate Reservoir Engineering; 2) Oil and Gas Production from Horizontal Wells; 3) Complications in Production Wells	9	270	210	60	45	15					5	4
33	VTES-BO2	II Block 1) Directional Drilling; 2) Off-Shore Drilling; 3) Off-Shore Cluster and Multilateral drilling	6	180	120	60	30	15	15				6	4
34	VTES-B03	III Block 1) Enhanced Oil Recovery; 2) Reservoir Flooding Methods; 3) Nanotechnology Application in Enhanced Oil Recovery	6	180	120	60	30	15	15				6	4
35	VTES-B04	IV Block 1) Drilling Fluids; 2) Control of oil-gas-water appearances in the well; 3) Washing Fluids Rheology and Hydraulics	6	180	120	60	30	15	15				6	4
36	VTES-B05	V I) Risks management; 2) Systematic Approach Towards Formation Studies and Classification; 3) Gas Transportation & Storage	3	90	45	45	30	15					6	3
37	VTES-B06	VI Block 1) Offshore Processing and Transportation Systems; 2) Development of Gas Hydrates Reservoir Engineering; 3) Oil Transportation & Storage	7	210	165	45	30	15		T/Pa			7	3

№	Discipline Code	Discipline Name	Credits Amount	Total Hours	Out – of – Lectur e Hall Hours	Lecture Hall Hours				T. P.	Prerequi- site Subjects Code	Core- requisite Subjects Code	Term	Week- ly Load
						Gene- ral	Including							
							Lecture	Seminar Training	Labor atory					
38	VTES-B07	VII Block 1) Well Borehole Interventions; 2) Turnaround of the Offshore Reservoirs; 3) Operations Management and Control in Petroleum Production	3	90	45	45	30	15				7	3	
39	VTES-B08	VIII Block 1) Automatic control systems for production processes; 2) Implementation of computer technologies in oil production processes; 3) A systematic approach to the study and classification of reservoirs	3	90	45	45	30	15				7	3	
40	VTES-B09	IX Block 1) Well Production Methods; 2) Offshore Gas & Gas Condensate Reservoir Engineering; 3) Subsea Well Production and Maintenance	4	120	75	45	30	15				7	3	
41	VTES-B10	X block 1) Well Interventions, 2) Complications in Offshore Gas and Condensate Wells, 3) Factors Impacting Well Interventions Frequency	5	150	105	45	30	15				7	3	
42	VTES-B11	XI Block 1) Project Manacement	3	90	45	45	30	15				7	3	
43	VTES-B12	XII Block 1) Technical English 2) Classical & Fuzzy Logic; A	3	90	60	30		30				7	2	
44	VTES-B13	XIII block QMSE (Quality Health Safety Enviorenment)	2	60	30	30	30					7	2	
Number of Training Hours														
			210	6300	3975	2325	1245	810	270					

### III. TRAINING PERIOD (weekly)

Academic Year	Theoretical Training	Examination Session	Practical Training	Final State Attestation	Holidays	Total
I	30	10	-	-	12	52
II	30	10	-	-	12	52
III	30	10	-	-	12	52
IV	15	5	14	6	2	42
<b>Total</b>	<b>105</b>	<b>35</b>	<b>14</b>	<b>6</b>	<b>38</b>	<b>198</b>

### IV. TEACHING PROCESS INDICATORS

Term	8							Practical Training	Final State Certification	Total
	1	2	3	4	5	6	7			
Credit	30	30	30	30	30	30	30	21	9	240
Number of Examinations	6	6	6	7	5	6	8			44
Hours per Week	22	22	22	22	22	23	22			

Presenters:

Vice-Rector on Education



associate prof. G.A.Mammadov

Provisional Dean, Faculty of Oil & Gas Production



prof. E.X.Isgandarov

Provisional Head, Department of Oil & Gas Engineering



associate prof. S.Z.Ismailov