



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

Approved:  
 Acting Rector:  
 « 30 »  
 Assoc. prof. Vazeh Askerov

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

CIRRUCULUM  
 (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	26	2	9	16	23	2	9	16	23	6	13	20	27	4	11	18	25	1	8	15	22	6	13	20	27	2	9	16	23				
I																																																			
II	=	=																																																	
III	=	=																																																	
IV	=	=																																																	

LEGEND: Theoretical Training □ Examination : Practical Training X Final State Attestation || 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						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	HS-B00	Humanitarian Subjects	30	900	510	390	75	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	8	240	120	120		120					1	8
3	HS-B02.2	Business and Academic Communication in Foreign Language - Speech Practice	7	210	105	105		105					2	7
4	HS-B03	Business and Academic Communication in Azerbaijani Language	4	120	75	45		45					4	3
		Elective Subjects												
5	ES-B04	I Block: 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						6	2
6	ES-B05	II Block: 1) Information Technology; 2) Information Management; 3) Basics of Entrepreneurship and Introduction to Business; 4) Political Science	3	90	60	30	15	15					1	2
	VVS-B00	Vocational Training (Specialty Subjects)	120	3600	2325	1275	780	285	210					
7	VVS-B01	Linear Algebra and Analytic Geometry	4	120	75	45	30	15					1	3
8	VVS-B02.1	Calculus -1	4	120	75	45	30	15					1	3
9	VVS-B02.2	Calculus -2	4	120	75	45	30	15		VVS-B02.1			2	3
10	VVS-B03	Differential Equations	4	120	75	45	30	15					3	3
11	VVS-B04	Probability Theory and Mathematical Statistics	4	120	90	30	30						4	2
12	VVS-B05	Introduction to Petroleum Engineering	4	120	90	30	30						1	2
13	VVS-B06	Basics of Physics	6	180	120	60	30	15	15				2	4
14	VVS-B07	Applied Physics	6	180	120	60	30	15	15				3	4
15	VVS-B08	General Chemistry	7	210	150	60	30	15	15				2	4
16	VVS-B09	Physical and Analytical Chemistry	6	180	120	60	30		30				3	4
17	VVS-B10	Mechanics	5	150	105	45	30	15					4	3
18	VVS-B11	Fluid Flow Mechanics	6	180	120	60	30	15	15				3	4
19	VVS-B12	Reservoir Fluid Flow	7	210	135	75	45	15	15				4	5
20	VVS-B13	Petrophysics & Formation Evaluation	7	210	120	90	45	15	30				4	6
21	VVS-B14	Senior Design	7	210	150	60	30	30					1	4
22	VVS-B15	Life & Safety	3	90	45	45	30	15					4	3
23	VVS-B16	Oil-gas Field Geology	5	150	105	45	30	15					3	3
24	VVS-B17	Drilling Engineering	6	180	105	75	45	15	15				5	5
25	VVS-B18	Well Completion	6	180	105	75	45	15	15	T/Pa			5	5
26	VVS-B19	Production Engineering	6	180	105	75	45	15	15	T/Pr			5	5
27	VVS-B20	Transportation Phenomenon	4	120	90	30	30						5	2
28	VVS-B21	Reservoir Engineering	6	180	105	75	45	15	15	T/Pa			6	5
29	VVS-B22	Geophysical Surveys of Oil and Gas Wells	3	90	45	45	30		15				3	3
		Vocational Training (Elective Subjects)	60	1800	1185	615	375	195	45					
30	VTES-B01	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
31	VTES-B02	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
32	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
33	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
34	VTES-B05	V Block 1) Mathematical and Statistical Tools of Petroleum Data Processing; 2) Risks management; 3) Gas Transportation & Storage	3	90	45	45	30	15					6	3
35	VTES-B06	VI Block 1) Offshore Processing and Transportation Systems; 2) Development of Gas Hydrates Reservoir Engineering; 3) Oil Transportation & Storage	6	180	135	45	30	15		T/Pa			7	3

№	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	Including							
							Lecture	Seminar Training	Laboratory					
36	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	
37	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	
38	VTES-B09	IX Block 1) Well Production Methods; 2) Offshore Gas & Gas Condensate Reservoir Engineering; 3) Subsea Well Production and Maintenance	6	180	135	45	30	15				7	3	
39	VTES-B10	X Block 1) Well Interventions, 2) Complications in Offshore Gas and Condensate Wells, 3) Factors - Impacting Well Interventions Frequency	4	120	75	45	30	15				7	3	
40	VTES-B11	XI Block - Project Management	3	90	45	45	30	15				7	3	
41	VTES-B12	XII Block 1) Technical English; 2) Classical & Fuzzy Logic	3	90	60	30		30				7	2	
42	VTES-B13	XIII Block -QHSE (Quality Health Safety Environment)	2	60	30	30	30					7	2	
			Number of Training Hours											
			210	6300	4020	2280	1230	795	255					

### 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
Total	105	35	14	6	38	198

### IV. TEACHING PROCESS INDICATORS

Term	1	2	3	4	5	6	7	8		Total
								Practical Training	Final State Certification	
Credit	30	29	30	30	31	30	30	21	9	240
Number of Examinations	6	5	6	6	5	6	8			42
Hours per Week	22	22	21	22	21	22	22			

Presenters:

Vice-Rector on Education



associate prof. G.A.Mammadov

Provisional Dean, Faculty of Oil & Gas Production



prof. E.X.Iskandarov

Provisional Head, Department of Oil & Gas Engineering



associate prof. S.Z.Ismayilov