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

assoc. prof. Vazeh Askerov

Specialty: 050608- "Energy engineering" Duration of study: 4 years (8semesters)

EDUCATION PLAN

(bachelor's level)

I.SCHEDULE OF EDUCATIONAL PROCESS

S	S	epte	emb	ber	- 20	00	tob	er	7	N	ove	emb	er	D	ece	emb	er	29	Ja	anua	ary	26	Fe	ebui	rary	23		Ма	rch		30	F	۱pril		27		М	ay			Ju	ne		00		July	,		F	Aug	าบร
Course	1	8	15 21		5	6 12	13 19		X 2 XI	3 9	10 16		-	1 7	8 14	15 21		XII 4 I	5 11	12 18	19 25	1	2		16 22	1 11	2	9 15	16 22) III 5	6	- 1	20 26	3 V	4	11 17	18 24	25 31		8	15 21	22 28	29 VI 5 VII	6	13 19	20	27 VII 1 VIII	2	Ť	16
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 Legend:
 Theoretical Preparation
 Examination
 Session Internship
 Holidays
 Final State

 Certification
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II. PLAN OF EDUCATIONAL PROCESS

	Subject				Out of			room hou		lc.w				
Nº	Code	Subject Name	Credit		class	T-4-1	According	to type of t		C.P.	Prerequisite	Correctvisit Subject	Se- mes	Weekly class
1	2		Amoun		Hours	Total	Lecture	Semina	Labora- tory	0	Subject cod	code	ter	Hours
	HS-B00	3 Humanitarian subjects	4	5	6	7	8	9	10	11	12	13	14	15
1	HS-B01	Azerbaijan history	30	900	480	420	75	345				116-H00 C.	2	
2	HS-B02.1	Business and academic communication in a foreign	5	150 120	90	60	30	30 60					1	4
3	He Boa a	language: General English Business and academic communication in a foreign						00		-			1	4
	N3-BUZ.Z	language: Speech Practice - Development of speech skills	4	120	60	60		60					2	4
4	HS-B02.3	Business and academic communication in a foreign language: Academic Vocabulary and Reading	4	120	60	60		60					3	4
5	HS-B02.4	Business and academic communication in a foreign language:Social Communication Skills	3	90	45	45		45					4	3
6	HS-B03	Business and Academic Communication in Azerbaijani Language	4	120	75	45		45					2	3
		Elective Subjects	6	180	90	90	45	45						
7	HES-B04	Block I: 1) Philosophy; 2) Sociology; 3) Constitution of the Republic of Azerbaijan and on the basis of law; 4) Logic; 5) Ethics and aesthetics; 6) Introduction to multiculturalism	3	90	45	45	15	30					5	3
8	HES-B05	Block II: 1) Information technology (by specialty); 2) Information management; 3) Fundamentals of Entrepreneurship and an Introduction to Business; 4) Political science	3	90	45	45	30	15					5	3
	VSS-B00	Vocational training subjects of speciality	180	5400	3525	1875	1080	405	390				in the	
9	VSS-B01	Linear Algebra and Analytic Geometry	120	3600	2340	1260	750	270	240			- "K"		
10	VSS-B02	Calculus - 1	5	150	105	45	30	15					1	3
11		Calculus- 2	5	120	75	45	30	15					1	3
12		Differential Equations	5	150 150	105 105	45	30	15			VSS-B02		2	3
13	VSS-B05	Theory of Probability and Mathematical Statistics	4	120	75	45 45	30 30	15					3	3
14	VSS-B06	Physics -1	6	180	120	60	30	15 15	45				4	3
15		Physics -2	6	180	120	60	30	15	15	-	1/00 000		1	4
16		Applied Physics: Electromagnetic Field Theory	6	180	120	60	30	15	15 15	-	VSS-B06		2	4
17	VSS-B09	Chemistry	6	180	120	60	30	15	30				3	4
18		Electrical circuit theory -1	6	180	120			4.5					1	4
19		Electrical circuit theory -2				60	30	15	15				3	4
	VSS-B12	Applied mechanics	5 6	150	90	60	30	15	15		VSS-B10		4	4
		Engineer - computer graphics		180	120	60	30	30					2	4
		Civil Defense	5	150	90	60	30	30					2	4
		Energy materials	3	90.	45	45	30		15				5	3
		Electrical machines	3 8	90	45	45	30		15				4	3
		Funtamentals of Energy	9	240	165	75	45	15	15				5	5
26		Technology of energy production	7	270 210	180	90	60	4=	30				3	6
		Technical thermodynamics and heat transfer	7	210	120 135	90	60	15	15				6	6
	VSS-B20	Protection of the electrical system and devices	7	210	150	75	45	15	15				4	5
		Electricalenergy generation, transmission and distribution	7	210	135	60	45	45	15	6111			5	4
		Elective subjects (vocational training)	60			75 645	45	15	15	CW			6	5
		Block I:	00	1800	1185	615	330	135	150					
30	501	1)Electrical equipment of power stations and substations; 2) Electrical part of power stations 3) Heat engines; 4)Steam, gas turbines and internal combustion engines	7	210	135	75	45	15	15	СР			6	5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
31	VTES- B02	Block II: 1) Fundamentals of the Electrical supply; 2)Modeling of electrical systems and computer simulation; 3)Heating, cooling and air conditioning systems; 4) Cogeneration systems and heating networks;	7	210	150	60	30	15	15		12	10	6	4
32	VTES- B03	Block III: 1)Automation of the electrical systems; 2) Control of the Electrical system Modes 3) Economic issues of energy; 4) Energy management	8	240	165	75	45	-	30			8.4	7	5
33	VTES- B04	Block IV: 1) Operation of electrical systems; 2) Electrical systems, operation and monitoring 3) Technologies for the production of solar and wind energy; 4) Renewableenergytechnologies	6	180	120	60	30	15	15				5	4
34	VTES- B05	Block V: 1) Transient processes in the electrical systems; 2) Short circuits in the electrical systems 3) Steam generators; 4) Boiler equipments;	7	210	120	90	45	15	30	cw	Į.		7	6
35	VTES- B06	Block VI: 1) Modes of the electrical systems; 2) Modes of power stations and grids 3) Auxiliary equipment for thermal power plants; 4) Operation of thermal power plants;	8	240	150	90	45	15	30				7	6
36	VTES- B07	Block VII: 1) Renewable electrical energy sources; 2) Smart technologies in energy engineering (Smart energy systems); 3) Water treatment and membrane in thermal energy technologies; 4) Chemical water regimes in thermal energy;	8	240	180	60	30	15	15	cw			4	4
37	VTES- B08	Block VIII: 1) Technical foreign language; 2) Fuzzy logic	4	120	90	30		30					7	2
38	VTES-B09	Block IX: 1)Labour protection and safety in industry	2	60	30	30	30						6	2
39	VTES-B10	Block X: 1) Projects management	3	90	45	45	30	15					7	3

III. TRAINING TIME (weeks)

Study Year	Theoretical training	Exam Session	Internship	Final State Certification	Holidays	Total
	30	10		-	12	52
11	30	10	-	-	12	52
111	30	10	-	-	12	52.
. IV	15	5	14	6	2	42
Cəmi	105	35	14	6	38	198

IV. LEARNING PROCESS INDICATORS

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Semester	1	2	3	4	5	6	7	Practics	Prep. and defense of grad.thesic	Total
Amount of Credits	30	30	30	30	30	30	30	21	9	240
Number of exams	6	6	5	6	6	5	5	'	39	
Number of hours per week	22	22	21	22	22	22	22			

Presented by:

Vice-rector for academic affairs

Dean of faculty power engineering

Head of the department of "Energy technologies"

Head of the department of "Power Engineering"

associate professor G.A.Mammadov
associate professor A.G. Aliyev
associate professor Sh.N. Nasirov
associate professor S.M. Mirzayeva