

Ministry Of Science and Education Republic Of Azerbaijan
 "AZERBAIJAN STATE OIL AND INDUSTRY UNIVERSITY" PLE

Specialty: 050607 - Electrical and electronics engineering

Education period: 4 years (8 semestr)



"confirm"
 Acting Rector

assoc. prof. Vazeh Asgarov

Year 2023

CURRICULUM
 (for undergraduate level)

I. SCHEDULE OF THE EDUCATIONAL PROCESS

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	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	4	11	18	25			
I																																															
II																																															
III																																															
IV																																															

Symbols: Theoretical training Exam session Practice Final state certification Holidays

II. PLAN OF EDUCATIONAL PROCESS

№-	The subject code	The subject name	Number of credits	Total hours	Outside classroom hours	Classroom hours			K,W K,P	Prerequisite	Korek vizit	Semester	Weekly training hours	
						Total	Lecture	Seminar						Practical work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	HS-B00	Humanitarian subject	30	900	495	405	90	315						
1	HS-B01	Azerbaijan history	5	150	90	60	30	30					1	4
2	HS-B02.1	Business and academic communication in a foreign language: General English	3	90	45	45		45					1	3
3	HS-B02.2	Business and academic communication in a foreign 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	4	120	60	60		60					4	4
6	HS-B03	Business and academic communication in the Azerbaijani language	4	120	75	45		45					2	3
		Elective subjects	6	180	105	75	60	15						
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	45	45	30	15					3	3
8	HES-B05	Block II: 1) Information technology; 2) Information management; 3) Basics of entrepreneurship and introduction to business; 4) Political science	3	90	60	30	30						6	2
	VSS-B00	Vocational training subjects by specialty	180	5400	3510	1890	1020	360	510					
			120	3600	2280	1320	750	225	345					
9	VSS-B01	Linear algebra and analytical geometry	4	120	60	60	30	30					1	4
10	VSS-B02	Calculus-1	4	120	60	60	30	30					2	4
11	VSS-B03	Calculus-2	4	120	60	60	30	30		VSS-B02			3	4
12	VSS-B04	Applied mathematics	4	120	75	45	30	15					4	3
13	VSS-B05	Fundamentals of physics	6	180	120	60	30	15	15				1	4
14	VSS-B06	Applied physics	6	180	135	45	30		15				2	3
15	VSS-B07	Chemistry	6	180	135	45	30		15				1	3
16	VSS-B08	Theory of electrical circuits-1	7	210	165	45	30		15				3	3
17	VSS-B09	Theory of electrical circuits-2	5	150	105	45	30		15	VSS-B08			4	3
18	VSS-B10	Engineering mechanics	6	180	120	60	45	15					2	4
19	VSS-B11	Engineering and computer graphics	6	180	120	60	30	30					2	4
20	VSS-B12	Civil defense	3	90	45	45	30		15				4	3
21	VSS-B13	Electrical measurements and tools	6	180	120	60	30		30				3	4
22	VSS-B14	Electrical machines	6	180	105	75	30	15	30				6	5
23	VSS-B15	Analog electronics	6	180	105	75	45		30				4	5
24	VSS-B16	Materials of electrical and electronic equipment	6	180	120	60	30		30				3	4
25	VSS-B17	Digital electronics and programmable integrated circuits	6	180	105	75	45		30				5	5
26	VSS-B18	Control theory	6	180	105	75	45	15	15				5	5
27	VSS-B19	Computer technology and programming	6	180	120	60	30		30				1	4
28	VSS-B20	Power electronics and electric drive	5	150	75	75	45		30				6	5
29	VSS-B21	Signals and systems	6	180	105	75	45	15	15				5	5
30	VSS-B22	Fundamentals of industry technology	6	180	120	60	30	15	15				5	4
		Elective subjects (Vocational training)	60	1800	1230	570	285	120	165					
31	VTES-B01	Block I: 1) Electrical and electronic devices and systems; 2) Renewable energy sources; 3) Communication and bus systems basics; 4) Industrial networks and buses	6	180	135	45	30		15				5	3
32	VTES-B02	Block II: 1) High voltage engineering; 2) Cable lines; 3) Database and knowledge base; 4) Database control	8	240	180	60	30		30				4	4
33	VTES-B03	Block III: 1) Electric drive control systems; 2) Smart technologies; 3) Sensors and actuators; 4) Smart (Intelligent) transmitter and operating mechanism	9	270	180	90	45	15	30				7	6
34	VTES-B04	Block IV: 1) Electrical equipment design; 2) Automated electrotechnological devices; 3) Designing electronic devices; 4) SCADA systems.	7	210	150	60	30	15	15	K/W			7	4
35	VTES-B05	Block V: 1) Computer modeling and simulation; 2) Electro-technology; 3) Fundamentals of schemotechnics; 4) Micro-electronics and nanoelectronics	7	210	150	60	30	15	15				6	4
36	VTES-B06	Block VI: 1) Operation, diagnostics and repair of electrical equipment; 2) Automation of typical technological processes; 3) Microprocessors; 4) Operation, diagnostics and repair of electronic devices	7	210	150	60	30		30				6	4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
37	VTES-B07	Block VII 1) Programmable logic controllers; 2) Power supply; 3) SMART systems	8	240	150	90	30	30	30				7	6
38	VTES-B08	Block VIII 1) Technical foreign language; 2) Classical and fuzzy logic; 3) Quality control	3	90	60	30		30					7	2
39	VTES-B09	Block IX: Health safety and Environment (HSE)	2	60	30	30	30						6	2
40	VTES-B10	Block X: Project management	3	90	45	45	30	15					7	3

III. Training course allotted time (weeks)

Academic year	Theoretical training	Exam session	Practice	Final state certification	Holidays	Total
I	30	10	-	-	12	52
II	30	10	-	-	12	52
III	30	10	-	-	12	52
IV	15	5	14	6	2	42
Cemi	105	35	14	6	38	198

IV. INDICATORS OF THE EDUCATIONAL PROCESS

Semester	1	2	3	4	5	6	7	8		Total
								Practice	Preparation and defense of the final work	
Number of credits	30	30	30	30	30	30	30	21	9	240
Number of exams	6	6	6	6	5	6	5			40
Hours per week	22	22	22	22	22	22	21			

Presented by:

Vice-rector for academic affairs



associate professor G.A. Mamedov

Dean of faculty power engineering



associate professor A.G. Aliyev

Head of the department of "Electromechanics"



associate professor E.N. Ahmedov

Head of the department of "Electronics and automatics"



associate professor A.V. Alizadeh