

№	Subject code	Subject name	Credits number	Total hours	Non-curricular Hours	Classroom Hours	Including			Prerequisite(courses required to be taken) Course Codes	Intended Semester of Course (Fall and Spring	Weekly Course Load
							Lecture	Seminar	Laboratory			
1	2	3	4	5	6	7	8	9	10	11	12	13
	VS - B 00	General subjects	24	720	390	330	30	300				4
1	VS- B 01	History of Azerbaijan	5	150	90	60	30	30			Fall-1	4
2	VS -B 0 2.01	Business and academic communication in a foreign language -1	7	210	105	105		105			Fall-1	7
3	VS-B02 .02	Business and academic communication in a foreign language -2	8	240	120	120		120		VS-B02 .01	Spring-2	8
4	VS – B0 3	Business and academic communication in Azerbaijani	4	120	75	45		45			Spring-2	3
	VS S - B 0 0	Elective subjects	6	180								
5	VSS-B04	First block 1.Psychology 2.Sociology 3. Fundamentals of law 4.Engineering ethics	3	90	60	30	15	15			Fall-5	2
6	VSS-B05	Second block 1.Critical thinking 2. Fundamentals of entrepreneurship and introduction to business 3. Education and career planning	3	90	60	30	15	15			Spring-6	2
	VS-BOO	Specialized subjects										
			120	3600	2265	1335	690	645				89
7	VS-BO1	Basics of information security	6	180	120	60	30	30			Fall-1	4
8	VS-BO 2	Basics of programming	6	180	120	60	30	30			Fall-1	4
9	VS-BO 3	Calculus	6	180	120	60	30	30			Fall-1	4
10	VS-BO4	Basics of cybersecurity	6	180	120	60	30	30			Spring-2	4
11	VS-BO5	Basics of networks (Basics of networks)	6	180	120	60	30	30			Spring-2	4
12	VS-BO 6	Linear Algebra	6	180	105	75	45	30			Spring-2	5
13	VS-BO 7	Operating systems	5	150	90	60	0	60			Fall-3	4
14	VS-BO 8	Network security	5	150	90	60	30	30			Fall-3	4
15	VS-BO9	Discrete Mathematics	5	150	105	45	30	15			Fall-3	3
16	VS-B1 0	Web security	5	150	90	60	30	30			Spring-4	4
17	VS-B1 1	Probability Theory	5	150	105	45	30	15			Spring-4	3
18	VS-B1 2	Legal aspects of information security and cybersecurity	5	150	90	60	30	30			Spring-4	4
19	VS-B1 3	Information security management systems	5	150	90	60	30	30			Fall-5	4
20	VS-B1 4	Database security	5	150	90	60	30	30			Fall-5	4
21	VS-B1 5	Cloud security	5	150	90	60	30	30			Fall-5	4
22	VS-B1 6	Basics of cryptography	5	150	90	60	30	30			Spring-6	4
23	VS-B1 7	Penetration testing basics	8	240	150	90	60	30			Spring-6	6
24	VS-B 1 8	Basics of electronics and IoT security	5	150	90	60	30	30			Spring-6	4
25	VS-B 1 9	Secure programming	5	150	90	60	30	30			Fall-7	4
26	VS-B20	Digital Forensics fundamentals	8	240	150	90	60	30			Fall-7	6
27	VS-B21	Security of industrial management systems	5	150	90	60	30	30			Fall-7	4
28	VS-B22	Civil defense	3	90	60	30	15	15			Fall-5	2
	VVS-BOO	Subjects determined by the higher education institution	62	1830	1125	690	390	300				48
29	VVS-BO1	Block I: 1. Construction and analysis of algorithms	6	180	105	75	45	30			Fall-3	5

		2. System design										
30	VVS-BO2	Block II: 1. Security of corporate network (information) systems 2. Malware analysis	5	120	75	60	30	30			Fall-3	4
31	VVS-BO3	Block III: 1. Social network analysis 2. Social engineering	4	180	105	45	30	15			Fall-3	3
32	VVS-BO4	Block IV: 1.System programming 2. C programming language	5	150	90	60	30	30			Spring-4	4
33	VVS-BO5	Block V: 1.Cloud technologies 2. Managing IT projects	5	150	90	60	30	30			Spring-4	4
34	VVS-BO6	Block VI 1.Database management systems 2. Microservices architecture 3. Cyber risk management	5	150	90	60	30	30			Spring-4	4
35	VVS-BO7	Block VII: 1.Machine learning 2. Fundamentals of digital image and video processing	4	120	75	45	15	30			Fall-5	3
36	VVS-BO8	Block VIII: 1. Graph theory 2. Security of mobile and wireless devices	5	150	105	45	30	15			Fall-5	3
37	VVS-BO9	Block IX: 1. Programming for mobile devices 2.Web programming	4	120	75	45	30	15			Spring-6	3
38	VVS-B10	X block: 1. Applied statistics and data analytics 2. Parallel and distributed computing	5	150	90	60	30	30			Spring-6	4
39	VVS-B11	Block XI: 1. Security of VoIP systems 2. Blockchain technologies	4	120	75	45	30	15			Fall-7	3
40	VVS-B12	Block XII: 1. Safety equipment 2. Fundamentals of Data Center Operations	4	120	75	45	30	15			Fall-7	3
41	VVS-B13	Block XIII: 1. Digital transformation 2.Corporate network (information systems security)	4	120	75	45	30	15			Fall-7	3
42		Practice	30								Spring-8	
		Total	240									

III. DURATION OF TRAINING

Academic year	Theoretical training	Exam	Experience	Holiday
I	30	10		10
II	30	10		12
III	30	10		12
IV	15	5	20	4
Total	105	35	20	38

	First semester	Second semester	Third semester	4th semester	Fifth semester	6th semester	Seventh semester	8th semester
Weekly class load	23	23	23	23	22	23	23	
Number of exams	5	5	7	6	7	6	6	
Number of credits	30	30	30	30	30	30	30	30

Organization and management of education
Head of the center: Resolution of the Scientific Council
of the State University of Science and Technology
" _____ " dated 2023

_____ approved at the meeting of Ph.D., P.Akhundov
" _____ " _____ 2023