"APPROVED"

UNEC

rector_____prof. A.J.Muradov

(signature)

"_____" _____ 20__ year

AZERBAIJAN STATE UNIVERSITY OF ECONOMICS (UNEC)

EDUCATION PLAN

(for undergraduate level)
Study period 4 years (8 semesters)

Code and name of the specialty:
050615 – Information security

I. SCHEDULE OF EDUCATION PROCESS

	September				IX 29 / X 5	October			X 27 / XI	November				December				XII 29 / I 4	January			I 26 / II	February			II 23 / III 1	March				III 30 / IV 5	April			IV 27 / V 3	May				June				VI 29 / VII 5	July			VII 27 / VIII 2	August			
	1 7	8 14	15 21	22 28		6 12	13 19	20 26		3 9	10 16	17 23	24 30	1 7	8 14	15 21	22 28		5 11	12 18	19 25		2 8	9 15	16 22		2 8	9 15	16 22	23 29		6 12	13 19	20 26		4 10	11 17	18 24	25 31	1 7	8 14	15 21	22 28		6 12	13 19	20 26		3 9	10 16	17 23	24 30
1	-	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	=	=	=	=	=
2	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	=	=	=	=	=
3	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	=	=	=	=	=
4	=	=	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	::	::	::	::	::	::	=	=	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P							

SYMBOLS: THEORETICAL TRAINING EXAM SESSION PRACTICE VACATION

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II. PLAN OF EDUCATIONAL PROCESS

№	Code of the subject	Name of subjects	Number of credit	Total hours	Hours outside the auditorium	Auditorium hours	Including			Prerequisite (required to be taught first) program of subjects	Requisite (teaching parallel intended) code of subjects	Semester of subject teaching (fall and spring))	Weekly class load
							Lecture	Seminar	Laboratory				
	Total		**240**	**7200**	**5025**	**2175**	**1020**	**1095**	**60**				
	General ubjects		**30**	**900**	**465**	**435**	**90**	**345**	**0**				
1	00004	Business and academic communication in Azerbaijani language	4	120	60	60			60			F–2	4
2	00005	History of Azerbaijan	5	150	90	60	30	30				S–1	4
3	00052	Business and academic communication in a foreign language-1	4	120	60	60			60			F–1	4
4	00073	Business and academic communication in a foreign language-2	3	90	45	45			45		00052	S–1	3
5	00932	Business and academic communication in a foreign language-3	4	120	60	60			60		00073	F–2	4
6	00933	Business and academic communication in a foreign language-4	4	120	60	60			60		00932	S–2	4
	Elective subjects (on general subjects)		**6**	**180**	**90**	**90**	**60**	**30**	**0**				
	00341 00830 00149 00574 00317 00632	1. Philosophy 2. Sociology 3. Fundamentals of law and Constitution of AR 4. Logic 5. Ethics and aesthetics 6. Introduction to multiculturalism	3	90	45	45	30	15				S–3	3
	00402 00404 00758 00671	1. Information technologies 2. Information management 3. Fundamentals of entrepreneurship and introduction to business 4. Political science	3	90	45	45	30	15				F–3	3
	Specialty subjects		**120**	**3600**	**2445**	**1155**	**630**	**465**	**60**				
	00054	Linear algebra and analytic geometry	3	90	45	45	30	15				F–1	3
	00105	Mathematical analysis	7	210	150	60	30	30				S–1	4

Code	Subject	Cr										Sem	
00230	Differential equations	3	90	45	45	30	15					S–2	3
00234	Discrete mathematics	3	90	45	45	30	15					F–3	3
00072	Probability theory and mathematical statistics	3	90	45	45	30	15					F–2	3
00012	Physics	5	150	90	60	30		30				F–1	4
00085	Introduction to the information security	7	210	150	60	30	30					S–1	4
00036	Fundamentals of programming	8	240	180	60	30	30					F–1	4
00028	Computer architecture	7	210	150	60	30	30					F–1	4
00304	Operational systems	7	210	150	60	30	30					F–2	4
00924	Data structure and algorithms	7	210	150	60	30	30					F–2	4
00919	Database systems	7	210	150	60	30	30					S–2	4
00090	Fundamentals of cryptography	8	240	180	60	30	30					S–1	4
00839	Steganography	6	180	120	60	30	30					S–2	4
00486	Computer graphics	6	180	120	60	30	30					F–4	4
00388	Information research manners and means	5	150	105	45	30	15					F–2	3
00407	Methods and means of information protection (organizational and legal)	5	150	105	45	30	15					S–2	3
00406	Methods and means of information protection (program-technique)	6	180	120	60	30	30					F–3	4
00751	Risk and incident management	7	210	150	60	30	30					S–3	4
00923	Intelligent data analysis	7	210	150	60	30	30					S–3	4
00034	Civil defense	3	90	45	45	30	15					F–1	3
	Elective subjects (specialty subjects)	60	1800	1215	585	300	285	0					
00196 00393 00731	1. Business information systems 2. Development of information systems 3. Digital crime	5	150	90	60	30	30					F–3	4
00498 00433 00798	1. Confidentiality and information technologies 2. An ethical challenge for administrators 3. Access to system administration	6	180	120	60	30	30					F–3	4
00767 00398 00766	1. Introduction to network technologies 2. Legal and ethical issues in information security 3. Basics of network security	5	150	90	60	30	30					S–2	4
00389 00480 00920	1. Information war 2. Computer crimes and forensics 3. Database security	7	210	150	60	30	30					S–3	4
00825 00769 00695	1. Malware and recovery engineering 2. Network security 3. Recovery from the consequences of the accident	7	210	150	60	30	30					F–3	4
00430 00870 00739 00765	1. Internet and Web security 2. Security systems 3. Digital communication 4. Network security technologies	6	180	120	60	30	30					S–3	4
00650 00764 00867	1. Security and confidentiality in online media 2. Network protocol security 3. Secure coding	7	210	150	60	30	30					F–4	4
00848 00886 00214 00390	1. Artificial intelligence research methods 2. Application security 3. Introduction to algebraic cryptography 4. Information theory	7	210	150	60	30	30					F–4	4
00128 00598 00689	1. Academic and engineering ethics 2. Mobile applications 3.Pen test and cloud security	3	90	45	45	30	15					F–4	3
00397 00804 00871	1. Human aspects of information security and privacy 2. Security and applications of smart cards 3. Security testing: theory and practice	7	210	150	60	30	30					F–4	4
	Practice	30	900	900									
00862	Practice	30	900	900								S–4	0

III. TIME ALLOTTED FOR TRAINING

Academic year		Credits		Theoretical training (week)		Exam session (week)		Practice (week)		Final attestation (week)		Vacation	
I	F– 1	60	30	30	15	10	5					12	2
	S – 1		30		15		5						10
II	F – 2	60	30	30	15	10	5					12	2
	S – 2		30		15		5						10
III	F – 3	60	30	30	15	10	5					12	2
	S – 3		30		15		5						10
IV	F – 4	$30 + 21^x + 9^{//}$	30	15	15	5	5	14		6		2	2
	S – 4		$21^x + 9^{//}$						14		6		
Total:		$210 + 21^x + 9^{//} = 240$		105		35		14		6		38	

	PRACTICE	Week	Credits	Semester
1	Industrial practice	15	30	S – 4

IS PRESENTED BY:

Vice-rector for teaching and training technologies	Assist.prof. G.C. Musayev
Director of the teaching-methodical center	Assist.prof. E.H. Azadov
Head of the "Digital technologies and applied informatics" department	Acad. A.M. Abbasov
Dean of the "Digital Economy" Faculty	E.H. Jafarov