

MINISTRY OF SCIENCE AND EDUCATION OF THE AZERBAIJAN REPUBLIC
"AZERBAIJAN STATE OIL AND INDUSTRY UNIVERSITY" PUBLIC LEGAL ENTITY



Approved”
acting rector

assoc. prof. Vazeh Askarov

09 2023

Specialty: 060632 - Information technologies and systems engineering
Specialization: 060632.1 – Information systems in management
060632.2 – Application software
060632.3 – Information technologies in oil,
petrochemical and chemical industry
060632.4 – Economic informatics
060632.5 – Information protection and security

CURRICULUM

(Master's level)

I. THE SCHEDULE OF EDUCATIONAL PROCESS

Duration of education: 2 years

Courses	September					October					November					December					January					February					March					April					May					June					July					August				
	1	8	15	22	29	6	13	20	27	5	3	10	17	24	1	8	15	22	29	5	12	19	26	2	9	16	23	30	6	13	20	4	11	18	25	1	8	15	22	29	5	6	13	20	27	2	9	16	23											
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Conventions Theoretical training Exam Research Experience Scientific and pedagogical experience Holiday or summer semester Preparation of master's dissertation Defense of master's dissertation

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II. THE PLAN OF EDUCATIONAL PROCESS

Seriously №	Course code	Courses	Number of credits	Total hours	Auditorium hours			Semester	Weekly Workload	
					Total	According to the of training				
						Lectures	Seminars			Laboratories
1	2	3	4	5	6	7	8	9	10	11
	MHF-BOO	Humanitarian courses	14	420	105	60	45			
1	MHF-B01	Foreign language	6	180	45		45		1	3
2	MHF-B02	Higher education pedagogy	4	120	30	30			2	2
	MHF-B03	Psychology	2	60	15	15			3	1
		Elective subjects								
4	MHF-B04	1. Philosophical problems of science and technology 2. Multiculturalism in Azerbaijan	2	60	15	15			1	1
	MiF-B00	Speciality (specialization) courses	10	300	90	75	15			
5	MiF-B01	History and methodology of information technologies and systems engineering	3	90	30	30			1	2
6	MiF-B02	Modern problems of information technologies and systems engineering	2	60	15	15			2	1
7	MiF-B03	Research methods	3	90	30	30			2	2
8	MiF-B04	Academic writing	2	60	15		15		3	1
		060632.1 – Information systems in management	40	1200	300	180	90	30		
9	MiF-B05	Database management systems	7	210	45	30	15	-	1	3
10	MiF-B06	Artificial intelligence systems	7	210	45	30	15	-	2	3
11	MiF-B07	Designing local and corporate information networks	6	180	45	30	-	15	3	3
12	MiF-B08	Information technologies and systems in management	6	180	45	30	-	15	1	3
13	MiF-B09	Decision support systems	7	210	60	30	30	-	3	4
14	MiF-B10	Designing corporate information systems (CIS)	7	210	60	30	30	-	2	4
		Elective courses	26	780	180	120	60	0		
15	MiF-B11	1. Image processing 2. Intelligent systems of image recognition	7	210	45	30	15	-	3	3
16	MiF-B12	1. Mobile and cyber-physical systems (ICT) 2. Smart technologies	6	180	45	30	15	-	3	3
17	MiF-B13	1. Distributed information systems 2. Intelligent neural network systems	7	210	45	30	15	-	2	3

18	MIF-B14	1. Digital technologies 2. System integrationimage	6	180	45	30	15	-	1	3
060632.2 - Information protection and security			40	1200	285	180	90	30		
9	MIF-B05	Basics of building and protecting modern operating systems	7	210	45	30	15	-	1	3
10	MIF-B06	Artificial intelligence systems	6	180	45	30	15	-	2	3
11	MIF-B07	Designing local and corporate information networks	6	180	45	30	-	15	1	3
12	MIF-B08	Communication security	6	180	45	30	-	15	1	3
13	MIF-B09	Digital forensics	7	210	45	30	30	-	3	4
14	MIF-B10	Management, auditing and security of Internet services	8	240	60	30	30	-	2	4
Elective courses			26	780	180	120	60	0		
15	MIF-11	1. Processing of images 2. Biometric identification algorithms	7	210	45	30	15	-	2	3
16	MIF-12	1. Information security in mobile applications 2. Design, operation and protection of wireless networks	6	180	45	30	15	-	3	3
17	MIF-13	1. Distributed information systems 2. Intelligent neural network systems	7	210	45	30	15	-	3	3
18	MIF-14	1. Safety in social networks 2. Information security management	6	180	45	30	15	-	3	3
Scientific research work			30	900	225					
19	MET -B01	Research Experience	6	180	45				4	
20	MET -B02	Scientific and pedagogical practice	6	180	45				4	
21	MET- B03	Preparation and defense of master's dissertation	18	540	135				4	

III. TRAINING ALLOTTED TIME (weekly)

Courses	Theoretical training	Examination session	Practice	Master's dissertation preparation	Master's dissertation protection	Holiday	Total
I	30	10	-	-	-	12	52
II	15	5	8	8	4	2	42
Total	45	15	8	8	4	14	94

IV. TRAINING PROCESS INDICATORS

Semester	1	2	3	Practice	Master's thesis preparation and defense	Total
Number of loans	30	30	30	12	18	120
The number of the exam	6	6	6		18	
	15	15	15			

Vice Rector for Academic Affairs

Dean of the Information Technology and Control Faculty

Head of "Computer Engineering" department





associate professor G.A. Mammadov

associate professor F.H. Aghayev

associate professor N.A. Rahimova