

MINISTRY OF SCIENCE AND EDUCATION
REPUBLIC OF AZERBAIJAN
WESTERN CASPIAN UNIVERSITY

Approved by
Executive Vice-Rector R.H. Baghirov
Western Caspian University

Code and name of the specialty: 050616 Information technologies
(Part time)
Study Period: 5 years (10 semesters)

" _____ " _____ 2026

CURRICULUM

(for Bachelor's level)

I. ACADEMIC SCHEDULE

courses	september					october					november					december					january					february					march					april					may					june					july					august				
	1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	2	9	16	23	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24								
	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	29	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26	2	9	16	23	31								
I																																																												
II																																																												
III																																																												
IV																																																												
V																																																												

Symbols : THEORETICAL TRAINING



INTERNSHIP



EXAMINATION SESSION



STATE FINAL CERTIFICATION



HOLIDAY



II. Academic Teaching plan

№	Subject code	Subject name	Credit number	Total hours	Non curricular hours	Classroom hours	Including			Prerequisite (first teaching necessary) code of subjects	Teaching the subject intended semester held (Fall or spring)	Weekly class load
							Lecture	Seminar	Laboratory			
1	2	3	4	5	6	7	8	9	10	11	12	13
	ÜF-B00	GENERAL SUBJECTS	24	720	610	110	10	100				
1	ÜF-B01	History of Azerbaijan	5	150	130	20	10	10			Spring-2	
2	ÜF-B02.01	Business and Academic Communication in a Foreign language -1	7	210	175	35	0	35			Fall-1	
3	ÜF-B02.02	Business and Academic Communication in a Foreign language -2	8	240	200	40	0	40			Spring -2	
4	ÜF- B03	Business and Academic Communication in Azerbaijani	4	120	105	15	0	15			Fall-1	
	ÜFS-B00	Elective subjects	6	180	160	20	10	10				
5	ÜFS-B04	First Blok 1. Philosophy 2. Introduction to Multiculturalism 3. Sociology 4. Constitution of the Republic of Azerbaijan and Fundamentals of Law 5. Logic 6. Ethics and Aesthetics	3	90	80	10	5	5			Fall-3	
6	ÜFS-B05	Second blok 1. Information Technologies (by speciality) 2. Information Management 3. Political science 4. Fundamentals of Entrepreneurship and Introduction to Business	3	90	80	10	5	5			Spring-8	
	İF-BOO	Specialized subjects	120	3600	3155	445	245	198	2			
7	İF-BO1	Linear algebra and analytic geometry	3	90	80	10	5	5			Spring-2	
8	İF-BO2	Calculus	7	210	185	25	15	10			Fall-3	
9	İF-BO3	Differential equations	3	90	80	10	5	5			Fall-5	
10	İF-BO4	Discrete mathematics	3	90	80	10	5	5			Fall -5	
11	İF-BO5	Probability theory and mathematical statistics	3	90	80	10	5	5			Fall-3	
12	İF-BO6	Physics	5	150	135	15	10	3	2		Fall-1	
13	İF-BO7	Fundamentals of information technology	8	240	215	25	15	10			Fall -1	
14	İF-BO8	Programming basics	6	180	155	25	15	10			Spring-4	
15	İF-BO9	Modern programming languages	6	180	155	25	15	10			Spring-8	
16	İF-B10	Computer architecture	8	240	215	25	15	10			Spring-2	
17	İF-B11	Data structure and algorithms	7	210	180	30	15	15			Fall 5	
18	İF-B12	Database systems	7	210	180	30	20	10			Spring-6	

19	IF-B13	Operating systems	6	180	150	30	15	15			Spring4	
20	IF-B14	Multimedia technologies	6	180	160	20	10	10			Spring-4	
21	IF-B15	Information security	6	180	160	20	10	10			Fall -7	
22	IF-B16	Human computer interface	7	210	185	25	15	10			Fal -7	
23	IF-B17	Computer networks	8	240	210	30	15	15			Spring -6	
24	IF-B18	Artificial intelligence	6	180	160	20	10	10			Spring-4	
25	IF-B19	Web systems and technologies	7	210	180	30	15	15			Fall -7	
26	IF-B20	IT projects management	5	150	130	20	10	10			Fall -9	
27	IF-B21	Civil Defense	3	90	80	10	5	5			Fall-3	
	ATMF-BO0	Subjects determined by the higher education institution	60	1800	1575	225	140	85				
28	ATMF-BO1	I block 1. Schematic diagnostics 2. Systematic analysis	4	120	105	15	10	5			Fall-3	
29	ATMF-BO2	II block 1. Computer diagnostics 2. Decision – making systems	4	120	105	15	10	5			Fall-3	
30	ATMF-BO3	III block: 1. Digital cartography and geographic information 2. Cloud technologies	5	150	135	15	10	5			Fall -9	
31	ATMF-BO4	IV block: 1. Programming Technologies. 2. Research Software Package	5	150	130	20	10	10			Spring -6	
32	ATMF-BO5	V block: 1. Algorithmization and Programming 2. System Simulation	4	120	105	15	10	5			Fall -5	
33	ATMF-BO6	VI block: 1. Methods of Ensuring Cybersecurity 2. Communication Channels	3	90	80	10	5	5			Fall -5	
34	ATMF-BO7	VII block: 1. Information and Communication Systems 2. Problems of Mathematical Logic+	4	120	105	15	10	5			Fall -5	
35	ATMF-BO8	VIII block: 1. Basics of Robotics 2. Electrotechnics	4	120	105	15	10	5			Fall -9	
36	ATMF-BO9	IX block: 1. Web Programming 2. Computer System Organization	4	120	105	15	10	5			Fall -7	
37	ATMF-B10	X block: 1. Distributed Data Systems 2. Intelligent Decision-Making Technologies	3	90	75	15	10	5			Spring -8	
38	ATMF -B11	XI block: 1. Metrology and Certification 2. Laser and Its Applications 3. Social Physics	5	150	135	15	10	5			Spring -8	
39	ATMF-B12	ATMF XII block: 1. Computer Modeling+ 2. Theory of Automata	7	210	180	30	15	15			Spring -8	
40	ATMF-B13	ATMF XIII block: 1. Modern Web Programming Tools+ 2. Cryptographic Algorithms in Computer Systems	4	120	105	15	10	5			Fall -9	
41	ATMF-B14	ATMF XIV block: 1. Internet Technologies 2. Structured Programming	4	120	105	15	10	5			Spring -6	
42	ATMF -B13	XIII block: 1. Planning and Design of Scientific Research 2. Research Methods and Ethics 3. Scientific Writing and Publication Processes	3	90	60	30	15	15			Fall -9	
43		Internship	30								Spring -10	
		TOTAL	243									

III. Duration Allocated for Training

Education year	Theoretical training	Exam	Practice	SFC	Holiday
I	8	2			
II	8	2			
III	8	2			
IV	8	2			
V	4	1	7		
Total	36	9	7		

	1 st semester	2 nd semester	3 rd semester	4 th semester	5 th semester	6 th semester	7 th semester	8 th semester	9 th semester	10 th semester
Weekly class load										
Examinations number	6	4	5	5	5	5	5	5	3	
Credits number	24	24	24	24	24	24	24	24	21	30

Director of the Center for Organization and Management of Education:

_____ *PhD, P. Akundov*

« _____ » _____ *The year 2026*

Scientific Council of WCU « _____ »
Approved at the meeting of _____ dated in the year 2026
(Protocol No. _____).