MINISTRY OF SCIENCE AND EDUCATION
REPUBLIC OF AZERBAIJAN
WESTERN CASPIAN UNIVERSITY

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

_____
"_____" _____2026

Code and name of the specialty: 050620 Computer Engineering (Part time)
Study Period: 5 years (10 semesters)

Curriculum Plan
(for Bachelor's level)

I. ACADEMİC 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																						: :	=	=	x	x	x	x	x	x	x	x									//	//	//	//								

Symbols : THEORETICAL TRAINING [ ] INTERNSHIP [x] EXAMINATION SESSION [::] STATE FINAL CERTIFICATION [//] HOLIDAY [=]

ACADEMIC TEACHING PLAN

№	Subject code	Subject name	Credits number	Total hours	Non-curricular Hours	Classroom Hours	Including			Prerequisi te (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 block*** 1. Philosophy 2. Introduction to multiculturalism 3. Sociology 4. Constitution of the Republic of Azerbaijan and the foundations of law 5. Logic 6. Ethics and aesthetics	3	90	80	10	5	5			Fall-3	
6	ÜFS-B05	**Second block** 1. Information Technology (by speciality) 2. Information Management 3. Political Science 4. Entrepreneurship Fundamentals and Introduction to Business	3	90	80	10	5	5			Spring-8	
	İF-BOO	**Specialized subjects**										
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 Computer Engineering	8	240	215	25	15	10			Fall-1	
14	İF-BO8	Programming basics	8	240	215	25	15	10			Spring-4	
15	İF-BO9	Data structure and algorithms	6	180	150	30	15	15			Fall-5	
16	İF-B10	Database systems	7	210	180	30	20	10			Spring-6	

17	İF-B11	Operating systems	8	240	210	30	15	15			Spring-4	
18	İF-B12	Computer networks	8	240	210	30	15	15			Spring-6	
19	İF-B13	Computer architecture	8	240	215	25	15	10			Spring-2	
20	İF-B14	Theory of circuits	7	210	180	30	15	15			Fall-7	
21	İF-B15	Basics of electronics	6	210	185	25	15	10			Fall-7	
22	İF-B16	Digital systems	7	210	185	25	15	10			Fall-7	
23	İF-B17	Computer systems security	8	240	210	30	15	15			spring-4	
24	İF-B18	Computer graphics	5	150	135	15	10	5			fall-9	
25	İF-B19	Computer modeling	7	210	180	30	15	15			spring-8	
26	İF-B20	Civil defense	3	210	200	10	5	5			fall-3	
	ATMF-BOO	**Subjects determined by the higher education institution**	**60**	**1800**	**1590**	**210**	**125**	**80**	**5**			
27	**ATMF-**BO1	**Block I:** 1. Fundamentals of circuit engineering 2. Systematic analysis	4	120	105	15	10	5			fall -3	
28	**ATMF-**BO2	**Block II:** **1.** Computer diagnostics **2.** Decision-making systems	4	120	105	15	10	5			fall -3	
29	**ATMF-**BO3	***Block III:*** 1. Programming technologies 2. Application software package	5	150	130	20	10	10			spring -6	
30	**ATMF-**BO4	**Block IV** **1.** Algorithmization and programming **2.** Systems simulation	4	120	105	15	10	0	5		fall -5	
31	**ATMF-**BO5	**Block V** 1. Ways to ensure cybersecurity 2. Communication channels	4	120	110	10	5	5			fall -5	
32	**ATMF-**BO6	**Block VI** **1.** Information communication systems 2. Human-computer interface (UI/UX)	4	120	105	15	10	5			fall -5	
33	**ATMF-**BO7	**Block VII** 1. Mobile programming 2. Materials science	3	90	80	10	5	5			fall -9	
34	**ATMF-**BO8	**Block VIII:** 1. Engineering mathematics 2. System analysis	3	90	80	10	5	5			spring -8	
35	**ATMF-**BO9	**Block IX:** 1. Web programming 2. Computer systems design	4	120	105	15	10	5			fall -7	
36	**ATMF-**B10	**X block:** 1. Development of desktop applications 2. Laser and its uses	5	150	135	15	10	5			spring -8	
37	**ATMF-**B11	**Block XI:** **1.** Modern Web programming tools **2.** Cryptography in computer systems algorithms	4	120	105	15	10	5			fall -9	
38	**ATMF-**B12	**Block XII:** **1.** Data analytics and Machine Learning **2.** Object-oriented programming	6	180	160	20	10	10			spring -8	
39	**ATMF-**B13	**Block XIII:** 1. Robotics 2. Electrical engineering	6	180	160	20	10	10			fall -9	
40	**ATMF-**B14	**Block XIV:** 1. Internet technologies 2. Industrial production management	4	120	105	15	10	5			spring -6	
41	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	
		Internship	**30**								spring -10	
		Total	**243**									

III. DURATION OF 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**		

	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester	9th semester	10th semester
Weekly class load										
Examinatios 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. Akhundov

«_____» _____ 2026

Scientific Council of WCU «_____»

Approved at the meeting of _____ dated in the year 2026

(Protocol No. _____)