Ministry of Education of the Republic of Azerbaijan
Western Caspian University

I confirm:_____
Western Caspian University
Executive Vice-Rector: R.H.Baghirov
"____" _____ 2024

Specialty code and name: 050509 Computer Science (Part time)
Duration of study: 5 years (10 semesters)

CURRICULUM
(for bachelor level)

I. ACADEMIC SCHEDULE

Symbols :

THEORETICAL TRAINING	INTERNSHIP	EXAMINATION SESSION	STATE FINAL CERTIFICATION	HOLIDAY
	X	::	//	=

II. Academic Teaching plan

№	Subject code	Subject name	Credit number	Total hours	Non curricular hours	Classroom hours	Including Lecture	Including Seminar	Including Laboratory	Prerequisite (first teaching necessary) code of subjects	Teaching the subject intended semester held (autumn Or spring)	Weekly class load
1	2	3	4	5	6	7	8	9	10	11	12	13
	ÜF-B00	**GENERAL SUBJECTS**										
1	ÜF-B01	Azerbaijani History	5	150	130	20	10	10			Fall-3	
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		ÜF-B02.01	Spring-2	
4	ÜF – B03	Business and Academic Communication in Azerbaijani	4	120	105	15	0	15			Fall-1	
	ÜFS-B00	**Elective Subjects**										
5	ÜFS-B04	***First block*** 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			Spring-6	
6	ÜFS-B05	**ÜFS-2** **1.**Information Technologies (by speciality) 2.Information Management 3. Political Science 4. Basics of Entrepreneurship and Introduction to Business	3	90	80	10	5	5			Fall-1	
	İF-BOO	**Specialized subjects**	**120**	**3600**	**3140**	**460**	**255**	**203**	**2**			
7	İF-BO1	Calculus - 1	6	180	160	20	10	10			Spring-2	
8	İF-BO2	Calculus - 2	6	180	160	20	10	10		İF-BO1	Fall-3	
9	İF-BO3	Physıcs	3	90	75	15	10	3	2		Fall-1	
10	İF-BO4	Fundamentals of Programming - 1	5	150	130	20	10	10			Spring-2	
11	İF-BO5	Fundamentals of Programming - 2	5	150	130	20	10	10		İF-BO4	Fall-3	
12	İF-BO6	Fundamentals of Programming - 3	4	120	105	15	10	5		İF-BO5	Spring-4	
13	İF-BO7	Linear Algebra	4	120	110	10	5	5			Fall-1	
14	İF-BO8	Theory of Probability and Mathematical Statistics	4	120	105	15	10	5			Fall-3	
15	İF-BO9	Computer Architecture	5	150	130	20	10	10			Spring-2	
16	İF-B10	Analytical Geometry	4	120	110	10	5	5			Fall-3	
17	İF-B11	Web Technologies	4	120	105	15	10	5			Spring-4	
18	İF-B12	Discrete Mathematics	6	180	155	25	15	10			Spring-4	
19	İF-B13	Differential Equations	6	180	160	20	10	10			Spring-6	
20	İF-B14	Numerical Methods-1	4	120	105	15	10	5			Spring -4	
21	İF-B15	Numerical Methods-2	5	150	130	20	10	10		İF-BO14	Fall-5	

No	Code	Subject	Cr								Sem	
22	İF-B16	Operating Systems	5	150	130	20	10	10			Spring-4	
23	İF-B17	Programming Technologies	5	150	130	20	10	10			Fall-5	
24	İF-B18	Database Systems	5	150	130	20	10	10			Fall-5	
25	İF-B19	Computer Networks	6	180	155	25	15	10			Spring-6	
26	İF-B20	Methods of Algorithm Analysis and Design-1	4	120	100	20	10	10			Spring-6	
27	İF-B21	Methods of Algorithm Analysis and Design-2	4	120	100	20	10	10		İF-BO20	Fall-7	
28	İF-B22	Parallel and Distributed Computing	4	120	105	15	10	5			Fall-5	
29	İF-B23	Artificial Intelligence	4	120	105	15	10	5			Fall-7	
30	İF-B24	Complex Analysis	4	120	105	15	10	5			Spring-8	
31	İF-B25	Optimization Methods	5	150	130	20	10	10			Fall-9	
32	İF-B26	Civil Defense	3	90	80	10	5	5			Fall-1	
	ATMF-BOO	**Subjects Determined by Higher Education Institutions**	**60**	**1800**	**1595**	**205**	**115**	**90**				
33	ATMF-BO1	**Block I** **1.**Computer Modeling 2. Design of Computer System	6	180	160	20	10	10			Spring-4	
34	ATMF-BO2	**Block II** **1.**Computer Graphics 2. Application Software Packages	5	150	130	20	10	10			Fall-5	
35	ATMF BO3	**Block III** **1.**Human-Computer Interface (UI/UX) 2. Information Communication Systems	6	180	160	20	10	10			Spring-6	
36	ATMF-BO4	**Block IV** 1. Systematic Analysis 2.Fundamentals of Circuit Design	5	150	135	15	10	5			Fall-7	
37	ATMF-BO5	**Block V** **1.**System Simulation 2. Distributed Systems for Data	5	150	135	15	10	5			Fall-7	
38	ATMF-BO6	**VI Block:** 1. Robotics 2. Electrical Engineering 3. Embedded Systems	4	120	105	15	10	5			Spring-8	
39	ATMF-BO7	**VII Block:** 1.Cybersecurity 2. Information Security in Mobile Phones 3. Methods of Ensuring Cybersecurity	6	180	160	20	10	10			Spring-8	
40	ATMF-BO8	**VIII Block:** 1. Data Structures and Algorithms 2. Web Programming	6	180	160	20	10	10			Spring-8	
41	ATMF-BO9	**IX Block:** 1. Problems in Mathematical Logic 2. Laser and Its Applications 3.Computer Mathematics	6	180	160	20	10	10			Fall-9	
42	ATMF -B10	**X Block:** 1.Digital Systems 2.Intelligent Systems 3. Expert Systems	7	210	185	25	15	10			Fall-9	
43	ATMF -B11	**XI Block:** 1. Internet Technologies 2. Structured Programming	4	120	105	15	10	5			Spring-8	
44		**Internship**	30								Spring-10	
		TOTAL	**240**									

III. DURATION OF TRAINING

Education year	Theoretical training	Exam	İnternship	Holiday
I	30	10		1 0
II	30	10		1 2
III	30	10		12
IV	15	5	20	4
Total	**105**	**35**	**20**	**3 8**

	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
Weekly class load	22	23	22	23	2 3	2 2	23	
Examinatios number	6	5	5	6	6	7	6	
Credits number	30	30	30	30	30	30	30	30

Director of the Center for Organization and

Management of Education: **Scientific Council of WCU «_____»**

_____ **PhD, P. Akhundov**   **Approved at the meeting of _____ dated in the year 2024**

«_____» _____ **2024**   **(Protocol No. _____).**