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

_____
" _____ " _____ 2024

Code and name of the specialty: 050509 Computer Science (Full time)
Study Period: 4 years (8 semesters)

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	=	=															::	::	::	::	::	::	=	=	x	x	x	x	x	x	x	x	x	x	x	x	x	x	//	//	//	//	//	//								

Symbols : THEORETICAL TRAINING — (box)   INTERNSHIP — **X**   EXAMINATION SESSION — **::**   STATE FINAL CERTIFICATION — **//**   HOLIDAY — **=**

II. Academic Teaching plan

№	Subject code	Subject name	Credit number	Total hours	Non curricular hours	Classroom hours	Lecture	Seminar	Laboratory	Prerequisite (first teaching necessary) code of subjects	Teaching the subject intended semester held (Fall Or spring)	Weekly class load
1	2	3	4	5	6	7	8	9	10	11	12	13
	ÜF-B00	**GENERAL SUBJECTS**	**24**	**720**	**390**	**330**	**30**	**300**				
1	ÜF-B01	History of Azerbaijan	5	150	90	60	30	30			Fall-3	4
2	ÜF-B02.01	Business and Academic Communication in a Foreign language -1	7	210	105	105		105			Fall-1	7
3	ÜF-B02.02	Business and Academic Communication in a Foreign language -2	8	240	120	120		120		ÜF-B02.01	Spring-2	8
5	ÜF – B03	Business and Academic Communication in Azerbaijani	4	120	75	45		45			Fall-1	3
	ÜFS-B00	**Elective subjects**	**6**	**180**	**120**	**60**	**30**	**30**				
6	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	60	30	15	15			Fall-3	2
7	ÜFS-B05	**GSE-2** 1.Information Technologies (by speciality) 2.Information Management 3.Political science 4.Fundamentals of Entrepreneurship and Introduction to Business	3	90	60	30	15	15			Fall-7	2
	İF-BOO	**SPECIALTY SUBJECTS**	**120**	**3600**	**2220**	**1380**	**765**	**610**	**5**			**92**
8	İF-BO1	Calculus -1	6	180	120	60	30	30			Fall-1	4
9	İF-BO2	Calculus -2	6	180	120	60	30	30		İF-BO1	Fall-2	4
10	İF-BO3	Physics	3	90	45	45	30	10	5		Fall-1	3
11	İF-BO4	Programming basics-1	5	150	90	60	30	30			Fall-2	4
12	İF-BO5	Programming basics -2	5	150	90	60	30	30		İF-BO4	Fall-3	4
13	İF-BO6	Programming basics- 3	4	120	75	45	30	15		İF-BO5	Fall-4	3
14	İF-BO7	Linear algebra and analytic geometry	4	120	90	30	15	15			Fall-1	2
15	İF-BO8	Probability theory and mathematical statistics	4	120	75	45	30	15			Fall-3	3
16	İF-BO9	Computer architecture	5	150	90	60	30	30			Spring-2	4
17	İF-B10	Analytical Geometry	4	120	90	30	15	15			Fall-3	2
18	İF-B11	Web texnologiyalar	4	120	75	45	30	15			Fall-3	3

No	Code	Subject									Semester	Credits
19	İF-B12	Discrete mathematics	6	180	105	75	45	30			Spring-4	5
20	İF-B13	Differential equations	6	180	120	60	30	30			Spring -6	4
21	İF-B14	Numerical methods – 1	4	120	75	45	30	15			Spring-4	3
22	İF-B15	Numerical Methods - 2	5	150	90	60	30	30		İF-BO14	Fall-5	4
23	İF-B16	Operating Systems	5	150	90	60	30	30			Spring-4	4
24	İF-B17	Programming Technologies	5	150	90	60	30	30			Fall-5	4
25	İF-B18	Database Systems	5	150	90	60	30	30			Fall-5	4
26	İF-B19	Computer Networks	6	180	105	75	45	30			Fall-5	5
27	İF-B20	Methods of Algorithm Analysis and Design - 1	4	120	60	60	30	30			Spring-6	4
28	İF-B21	Methods of Algorithm Analysis and Design - 2	4	120	60	60	30	30		İF-BO20	Fall-7	4
29	İF-B22	Parallel and Distributed Computing	4	120	75	45	30	15			Spring-6	3
30	İF-B23	Artificial Intelligence	4	120	75	45	30	15			Spring-6	3
31	İF-B24	Complex Analysis	4	120	75	45	30	15			Fall-7	3
32	İF-B25	Optimization Methods	5	150	90	60	30	30			Fall-7	4
33	İF-B26	Civil Defence	3	90	60	30	15	15			Fall-1	2
	ATMF-BOO	**Subjects defined by the Higher Education Institution**	**60**	**1800**	**1185**	**615**	**345**	**270**				**41**
35	ATMF-BO1	**I Block:** 1. Computer Modeling 2. Design of Computer System	6	180	120	60	30	30			Spring-2	4
36	ATMF-BO2	**II Block:** 1. Computer Graphics 2.Application Software Packages	5	150	90	60	30	30			Fall-3	4
37	ATMF BO3	**III Block:** 1.Human-Computer Interface (UI/UX) 2. Information and Communication Systems	6	180	120	60	30	30			Spring-4	4
38	ATMF-BO4	**IV Block:** 1. Systematic Analysis 2. Fundamentals of Circuit Design	5	150	105	45	30	15			Spring-4	3
39	ATMF-BO5	**V Block:** 1.System Simulation 2. Distributed Systems for Data	5	150	105	45	30	15			Fall-5	3
40	ATMF-BO6	**VI Block:** 1. Robotics 2. Electrical Engineering 3. Embedded Systems	4	120	75	45	30	15			Fall-5	3
41	ATMF-BO7	**VII Block:** 1.Cybersecurity 2. Information Security in Mobile Phones 3. Methods of Ensuring Cybersecurity	6	180	120	60	30	30			Spring-6	4
42	ATMF-BO8	**VIII Block:** 1. Data Structures and Algorithms 2. Web Programming	6	180	120	60	30	30			Spring-6	4
43	ATMF-BO9	**IX Block:** 1. Problems in Mathematical Logic 2. Laser and Its Applications 3.Computer Mathematics	6	180	120	60	30	30			Fall-7	4
44	ATMF -B10	**X Block:** 1.Digital Systems 2.Intelligent Systems 3. Expert Systems	7	210	135	75	45	30			Fall-7	5
45	ATMF -B11	**XI Block:** 1. Internet Technologies 2. Structured Programming	4	120	75	45	30	15			Fall-7	3
46		**Internship**	30								Spring-8	
		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. _____).