MINISTRY OF SCIENCE AND EDUCATION
REPUBLIC OF AZERBAIJAN
WESTERN CASPIAN UNIVERSITY

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

_____
"_____" _____2024

Code and name of the specialty: 050620 Computer Engineering (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	x	x	x	x	x	x								

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			Prerequisi te (first teaching necessary) code of subjects	Teaching The Subject Intended Semester Held (Fall Or Spring)	Weekly class load
							Lecture	Seminar exercise	Laboratory			
1	2	3	4	5	6	7	8	9	10	11	12	13
	ÜF - B 00	**General subjects**	24	720	390	330	30	300				26
1	ÜF- B01	History of Azerbaijan	5	150	90	60	30	30			spring-4	4
2	ÜF -B02.01	Business and academic communication in a foreign language -1	7	210	105	105		105			fall1	7
3	ÜF-B02.02	Business and academic communication in a foreign language -2	8	240	120	120		120		UF-B02 .01	spring-2	8
4	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				4
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	60	30	15	15			fall-3	2
6	ÜFS-B05	**Second block** 1. Information technologies (by speciality) 2. Information management 3. Political Science 4. Fundamentals of entrepreneurship and introduction to busineİF	3	90	60	30	15	15			Fall -7	2
	İF-BOO	**Specialized subjects**	120	3600	2280	1320	735	580	5			88
7	İF-BO1	Linear algebra and analytic geometry	3	90	60	30	15	15			fall-1	2
8	İF-BO 2	Calculus	7	210	135	75	45	30			fall-2	5
9	İF-BO 3	Differential equations	3	90	60	30	15	15			spring-4	2
10	İF-BO4	Discrete mathematics	3	90	60	30	15	15			spring-4	2
11	İF-BO5	Probability theory and mathematical statistics	3	90	60	30	15	15			spring-2	2
12	İF-BO 6	Physics	5	150	105	45	30	10	5		fall-1	3
13	İF-BO 7	Fundamentals of Computer Engineering	8	240	165	75	45	30			fall-1	5
14	İF-BO 8	Programming basics	8	240	165	75	45	30			fall-3	5

#	Code	Subject								Semester	Credits
15	İF-BO9	Data structure and algorithms	6	180	90	90	45	45		spring-4	6
16	İF-B1 0	Database systems	7	210	120	90	60	30		fall-5	6
17	İF-B1 1	Operating systems	8	240	150	90	45	45		fall-3	6
18	İF-B1 2	Computer networks	8	240	150	90	45	45		fall-5	6
19	İF-B1 3	Computer architecture	8	240	165	75	45	30		spring-2	5
20	İF-B1 4	Theory of circuits	7	210	120	90	45	45		fall-3	6
21	İF-B1 5	Basics of electronics	6	180	105	75	45	30		spring-6	5
22	İF-B1 6	Digital systems	7	210	135	75	45	30		spring-6	5
23	İF-B1 7	Computer systems security	8	240	150	90	45	45		spring-6	6
24	İF-B 1 8	Computer graphics	5	150	105	45	30	15		fall-5	3
25	IF-B 1 9	Computer modeling	7	210	120	90	45	45		fall-7	6
26	IF-B20	Civil defense	3	90	60	30	15	15		fall-1	2
	ATMF-BOO	**Subjects determined by the higher education institution**	60	1800	1170	630	375	240	15		42
28	ATMF -BO1	**Block I:** 1. Fundamentals of circuit engineering 2. Systematic analysis	4	120	75	45	30	15		spring-2	3
29	ATMF -BO2	**Block II:** **1.** Computer diagnostics **2.** Decision-making systems	4	120	75	45	30	15		fall-3	3
30	ATMF -BO3	*Block III:* 1. Programming technologies 2. Application software package	5	150	90	60	30	30		spring-4	4
31	ATMF -BO4	**Block IV** **1.** Algorithmization and programming **2.** Systems simulation	4	120	75	45	30	0	15	spring-4	3
32	ATMF -BO5	**Block V** 1. Ways to ensure cybersecurity 2. Communication channels	4	120	90	30	15	15		spring-4	2
33	ATMF -BO6	**Block VI** **1.** Information communication systems 2. Human-computer interface (UI/UX)	4	120	75	45	30	15		fall-5	3
34	ATMF -BO7	**Block VII** 1. Mobile programming 2. Materials science	3	90	60	30	15	15		fall-5	2
35	ATMF -BO8	**Block VIII:** 1. Engineering mathematics 2. System analysis	3	90	60	30	15	15		fall-5	2
36	ATMF -BO9	**Block IX:** 1. Web programming 2. Computer systems design	4	120	75	45	30	15		spring-6	3
37	ATMF -B10	**Block X:** 1. Development of desktop applications 2. Laser and its uses	5	150	105	45	30	15		spring-6	3
38	ATMF -B11	**Block XI:** **1.** Modern Web programming tools **2.** Cryptography in computer systems algorithms	4	120	75	45	30	15		fall-7	3
39	ATMF -B12	**Block XII:** **1.** Data analytics and Machine Learning **2.** Object-oriented programming	6	180	120	60	30	30		fall-7	4
40	ATMF -B13	**Block XIII:** 1. Robotics 2. Electrical engineering	6	180	120	60	30	30		fall-7	4
41	ATMF -B14	**Block XIV:** 1. Internet technologies 2. Industrial production management	4	120	75	45	30	15		fall-7	3
42		**Internship**	30							spring-8	
		Total	240								

I. DURATION OF TRAINING

Education year	Theoretical training	Exam	İnternship	Holiday
I	30	10		10
II	30	10		12
III	30	10		12
IV	15	5	20	4
Total	105	35	20	38

	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:
_____ PhD,P.Akhundov
«_____» _____ The year 2024

Scientific Council of WCU «_____»
Approved at the meeting of _____ dated in the year 2024
(Protocol No. _____).