

**MINISTRY OF SCIENCE AND EDUCATION
REPUBLIC OF AZERBAIJAN
WESTERN CASPIAN UNIVERSITY**

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

Code and name of the specialty: 060632 – Information technologies and systems engineering

Name of specialization: Applied software

Study Period: 2 year (4 semester)

_____ 2022

**CURRICULUM
(for Master's level)**

I. ACADEMIC SCHEDULE

Semester	September	October	November	December	January	February	March	April	May	June	July	August
	I	=	=			::	::	::	::	::	=	=
II	=	=			::	::	::	::	::	=	=	=

Symbols : THEORETICAL TRAINING

INTERNSHIP

EXAMINATION SESSION

STATE FINAL CERTIFICATION

HOLIDAY



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
	MHF – B00	Humanities	14	420	315	105	35	70				
1	MHF – B01	Foreign language	6	180	135	45		45			1-Fall	3
2	MHF – B02	Higher school pedagogy	4	120	90	30	15	15			3-Fall	2
3	MHF – B03	Psychology	2	60	45	15	10	5			1-Fall	1
4	MHF – B04	Major Elective Subject: 1. Academic ethics 2. Organizational behavior 3. Creativity and leadership	2	60	45	15	10	5			1-Fall	1
	MYTH – B00	Speciality (specialization) subjects	10	300	225	75	40	35				
5	MYTH-B01	Modern problems of information technologies	4	120	90	30	15	15			2-Spring	2
6	MYTH-B02	History and methodology of information technologies	2	60	45	15	10	5			1-Fall	1
7	MYTH- B03	AMTSF: Parallel algorithms and multiprocessor computing systems	4	120	90	30	15	15			2-Spring	2
	MYTH-B04	Major Specialization subjects	42	1260	945	315	180	135				
8	MIF-B04.01	Electronic document management	6	180	135	45	30	15			1-Fall	3
9	MIF-B04.02	Programming in computer networks	4	120	90	30	15	15			1-Fall	2
10	MIF-B04.03	Analysis and design of digital systems	6	180	135	45	30	15			2-Spring	3
11	MIF-B04.04	Programming technologies	8	240	180	60	30	30			2-Spring	4
12	MIF-B04.05	Expert systems and artificial intelligence	4	120	90	30	15	15			3-Fall	2
13	MIF-B04.06	Internet search engines	6	180	135	45	30	15			3-Fall	3
14	MIF-B04.07	Fundamentals of decision-making theory	4	120	90	30	15	15			3-Fall	2
15	MIF-B04.08	VBIS administrator	4	120	90	30	15	15			3-Fall	2
	MYTH-B05	Elective subject	24	720	540	180	90	90				
16	MIF-B05.01	I Elective subject block: 1. Application software packages 2. Mathematical software packages 3. Modern network technologies	8	240	180	60	30	30			1-Fall	4
17	MIF-B05.02	II Elective subject block: 1. Methods of automation of the social sphere 2. E-government and its software and hardware support 3. Forecasting methods	8	240	180	60	30	30			2-Spring	4
18	MIF-B05.03	III Elective subject block: 1. Economic and financial mathematics 2. Cryptographic methods in computer technologies 3. Mathematical and computer modeling	8	240	180	60	30	30			3-Fall	4
	MET – B00	Scientific research works	30									
19	MET – B01	Scientific research internship	6								4-Spring	
20	MET – B02	Scientific pedagogical internship	6								4-Spring	
21	MET – B03	Preparation an defense of dissertation work	18								4-Spring	
		Total	120									

1 week of the internship period is 1.5 credits.

III. TIME FOR TRAINING

Education year	Theoretical training	Exam	Internship	SFC	Holiday
I	30	10			10
II	15	5	8	12	4
Total:	45	15	8	12	14

	1 st semester	2 nd semester	3 rd semester	4 th semester
Weekly class load	15	15	15	-
Examinations number	7	6	5	-
Credits number	30	30	30	30

NOTE: The curriculum prepared based on the educational program approved in 2012 has been adapted to the "Rules for the Organization of Education with the Credit System at the Bachelor's and Master's Levels of Higher Education Institutions" approved by the Resolution No. 348 of the Cabinet of Ministers of the Republic of Azerbaijan dated December 24, 2013.

**Director of the Center for Organization and
Management of Education:**

_____ 2022
« _____ » _____ 2022

Scientific Council of WCU « _____ »

**Approved at the meeting of _____ dated in the year 2022
(Protocol No. _____).**