KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT

PROGRAMME CURRICULUM

Approved by the University Counsil
August 24, 2026, Act №1

AXBOROT TIZIMLARI MUHANDISLIGI / INFORMATION SYSTEMS ENGINEERING - 60610100

Akademik daraja:	Bakalavr	**Academic Degree:**	Bachelor
O'qish davomiyligi:	4 yil	**Duration of Study:**	4 Years
Ta'lim shakli:	Kunduzgi	**Mode of Study:**	Full-time
Beriladigan kvalifikatsiya:	Axborot texnologiyalari muhandisi	**Qualification Awarded:**	Information Technology Engineer

I. PROCESS SCHEDULE

COURSE	Weeks																																																				Academic Activity	*from that*					Vacation	Overall Total
	September				October				November					December				January					February				March				April				May					June				July				August					Total	Theoretical and Practical Instruction	Assessment	Professional Internship	Final Attestation / Bachelor's Thesis	Orientation week		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52								
1	ow																A	A	V	V	V	ow																A	A	V	V	V	V	V	V	V	V	V	V	V	V	V	36	30	4	0	0	2	16	52
2	ow																A	A	V	V	V	ow																A	A	V	V	V	V	V	V	V	V	V	V	V	V	V	36	30	4	0	0	2	16	52
3	ow																A	A	V	V	V	ow																A	A	V	V	V	V	V	V	V	V	V	V	V	V	V	36	30	4	0	0	2	16	52
4	ow																A	A	V	ow	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	A	F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	36	15	3	15	1	2	1	37
																																																				Total	**144**	**105**	**15**	**15**	**1**	**8**	**49**	**193**

ow Orientation week   ☐ Theoretical and Practical Instruction   **A** Assessment   **I** Professional Internship   **V** Vacation   **F** Final Attestation / Bachelor's Thesis

Notes:
1. One credit is equivalent to 30 academic hours. The duration of one academic hour is 50 minutes.
2. Elective courses within the major may be revised to reflect the requirements of employers and other stakeholders.
3. Practical classes and laboratory sessions in specialised courses included in the curriculum shall be conducted at the higher education institution and, where appropriate, at partner organisations and enterprises serving as practical training bases. Within one semester, students may choose one elective course.
4. Assessment of students' knowledge and academic performance shall be carried out in accordance with the regulations developed under the University's credit system.
5. A dual qualification may be awarded provided that the student completes a full set of elective courses corresponding to one additional qualification, amounting to 20 ECTS credits within this block. The courses selected for the dual qualification shall be taught in a coherent and sequential manner during Semesters 4, 5, 6 and 7.

Rector	**A.B. Allakuliev**
Head of the Academic Affairs Department	**R.K. Allaberganov**
Dean	**F.D. Shamuratov**
Head of the Education Quality Assurance Department	**Z.B. Sharipova**
Head of the Department of Applied Informatics	**K.T. Makharov**
President of the Student Parliament	**A.M. Raxmatova**

Version for **website publication**. Images of handwritten signatures are not published. The signed original is held by the Academic Affairs Department.

II. CURRICULUM

AXBOROT TIZIMLARI MUHANDISLIGI / INFORMATION SYSTEMS ENGINEERING - 60610100

№	Course Code	Course / Learning Activity		Total Workload		Student Workload (contact hours)				Student-centered learning	Distribution of Total hours								Distribution of ECTS credits								ECTS credits
											Courses								Courses								
											1		2		3		4		1		2		3		4		
											Weeks								Weeks								
											36		36		36		36		36		36		36		36		
				Hours	%	Lectures	Seminar	PBL/CBL, Lab., Pract	Total		Semesters								Semesters								
											1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
1.00	**-**	**Majburiy fanlar**	**Compulsory modules**	**4500**	**62,5**	**852**	**33**	**915**	**1800**	**2700**	**900**	**900**	**900**	**720**	**540**	**180**	**360**	**0**	**30**	**30**	**30**	**24**	**18**	**6**	**12**	**0**	**150**
1.01	EC5M0005	O'zbekistonning eng yangi tarixi	CONTEMPORARY HISTORY OF UZBEKISTAN	120	1,7	33	15		48	72	120								4								4
1.02	EC5M0022	Dinshunoslik	RELIGIOUS STUDIES	120	1,7	48			48	72		120								4							4
1.03	EC5M0011	Falsafa	PHILOSOPHY	120	1,7	48			48	72		120								4							4
1.04	PH2M0076-0077	Xorijiy til 1,2	FOREIGN LANGUAGE 1,2	240	3,3			96	96	144	120	120							4	4							8
1.05	DT2M0204-0205	Hisob (Calculus) 1,2	CALCULUS 1,2	360	5,0	84		60	144	216	180	180							6	6							12
1.06	DT2M0078-0079	Fizika 1,2	PHYSICS 1,2	300	4,2	75		45	120	180	180	120							6	4							10
1.07	DT2M0206	Differensial tenglamalar	DIFFERENTIAL EQUATIONS	180	2,5	45		27	72	108				180								6					6
1.08	DT2M0207	Chiziqli algebra	LINEAR ALGEBRA	180	2,5	45		27	72	108			180								6						6
1.09	DT1M0535-0536	Dasturlash 1,2	PROGRAMMING 1,2	300	4,2	45		75	120	180	180	120							6	4							10
1.10	DT3M0210	Akademik yozuv	ACADEMIC WRITING	120	1,7			48	48	72	120								4								4
1.11	DT1M0537	Ma'lumotlar bazasi	DATABASE SYSTEMS	180	2,5	27		45	72	108			180								6						6
1.12	DT1M0538	Kiberxavfsizlik asoslari	FUNDAMENTALS OF CYBERSECURITY	180	2,5	27		45	72	108				180								6					6
1.13	DT1M0539	Ma'lumotlar tuzilmasi va algoritmlar	DATA STRUCTURES AND ALGORITHMS	120	1,7	18		30	48	72		120								4							4
1.14	EN1M0540	Elektronika va sxemalar 1	ELECTRONICS AND SCHEMES 1	180	2,5	42		30	72	108			180								6						6
1.15	DT2M0215	Diskret tuzilmalar	DISCRETE STRUCTURES	180	2,5	45		27	72	108			180								6						6
1.16	DT1M0541	Kompyuter tarmoqlari	COMPUTER NETWORKS	180	2,5	27		45	72	108			180								6						6
1.17	DT1M0217	Sun'iy intellekt asoslari	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	180	2,5	27		45	72	108				180								6					6
1.18	DT2M0218	Ehtimollik va statistika	PROBABILITY AND STATISTICS	180	2,5	45		27	72	108				180								6					6
1.19	DT1M0542	Individual loyiha	INDIVIDUAL PROJECT	120	1,7			48	48	72							120								4		4
1.20	DT1M0543	Axborot tizimini ishlab chiqish metodologiyalari	INFORMATION SYSTEM DEVELOPMENT METHODOLOGIES	180	2,5	42		30	72	108					180								6				6
1.21	DT1M0544	Katta hajmdagi ma'lumotlarni boshqarish (Big Data)	BIG DATA MANAGEMENT	180	2,5	27		45	72	108						180								6			6
1.22	DT1M0545	Bulutli texnologiyalar	CLOUD TECHNOLOGIES	180	2,5	27		45	72	108					180								6				6
1.23	DT1M0546	Veb tizimlari	WEB SYSTEMS	180	2,5	27		45	72	108					180								6				6
1.24	EC4M0547	Biznes jarayoni va AT strategiyasi	BUSINESS PROCESS AND IT STRATEGY	120	1,7	30	18		48	72							120								4		4
1.25	DT1M0548	Axborot tizimlari ma'lumotlarini vizuallashtirish	DATA VISUALIZATION IN INFORMATION SYSTEMS	120	1,7	18		30	48	72							120								4		4
2.00	**-**	**Tanlov fanlar**	**Elective modules**	**1800**	**25,0**	**234**	**0**	**486**	**720**	**1080**	**0**	**0**	**0**	**180**	**360**	**720**	**540**	**0**	**0**	**0**	**0**	**6**	**12**	**24**	**18**	**0**	**60**
2.01	DT1E1620	Pythonda obyektga yo'naltirilgan dasturlash	OBJECT ORIENTED PROGRAMMING WITH PYTHON	180	2,5	27		45	72	108				180								6					6
	DT1E1621	C#da obyektga yo'naltirilgan dasturlash	OBJECT ORIENTED PROGRAMMING WITH C#	180	2,5	27		45	72	108				180								6					6
2.02	PH4E1622	O'zbek (rus) tili	UZBEK (RUSSIAN) LANGUAGE	120	1,7			48	48	72					120								4				4
	DT1E1623	Ma'lumotlar ilmi	DATA SCIENCE	120	1,7	18		30	48	72					120								4				4
	DT1E1624	So'rovlar muhandisligi	PROMPT ENGINEERING	120	1,7	18		30	48	72					120								4				4
2.03	DT1E1625	Operatsion tizimlar	OPERATING SYSTEMS	120	1,7	18		30	48	72					120								4				4
	DT1E1626	DevOps asoslari	DEVOPS BASICS	120	1,7	18		30	48	72					120								4				4
2.04	DT1E1627 (1629)	Loyihaga asoslangan o'rganish 1,2	PROJECT BASED LEARNING 1,2	240	3,3			96	96	144					120	120							4	4			8
	DT1E1628 (1630)	Muhandislik startaplari va biznes loyihalari 1,2	ENGINEERING STARTUPS AND BUSINESS VENTURES 1,2	240	3,3			96	96	144					120	120							4	4			8
2.05	DT1E1631	Kompyuterli ko'rish	COMPUTER VISION	120	1,7	18		30	48	72						120								4			4
	DT1E1632	UI/UX	UI/UX	120	1,7	18		30	48	72						120								4			4
2.06	DT1E1633	Dasturiy injiniring	SOFTWARE ENGINEERING	120	1,7	18		30	48	72						120								4			4
	DT1E1634	Dasturiy ta'minot loyihalash andozalari	SOFTWARE DESIGN PATTERNS	120	1,7	18		30	48	72						120								4			4
2.07	DT1E1635	Axborot xavfsizligi	INFORMATION SECURITY	120	1,7	18		30	48	72						120								4			4
	DT1E1636	Tarmoq xavfsizligi	NETWORK SECURITY	120	1,7	18		30	48	72						120								4			4
2.08	DT1E1637	Tizim tahlili va modellashtirish	SYSTEM ANALYSIS AND MODELLING	120	1,7	18		30	48	72						120								4			4
	DT1E1638	Obyektga yo'naltirilgan modellashtirish va dizayn	OBJECT ORIENTED MODELLING AND DESIGN	120	1,7	18		30	48	72						120								4			4
2.09	DT1E1639	Buyumlar interneti	INTERNET OF THINGS	120	1,7	18		30	48	72						120								4			4
	DT1E1640	Simsiz tarmoqlar	WIRELESS NETWORKS	120	1,7	18		30	48	72						120								4			4
2.10	DT1E1641	Mobil ilovalar yaratish	MOBILE APPLICATION DEVELOPMENT	120	1,7	18		30	48	72							120								4		4
	DT1E1642	Parallel dasturlash	PARALLEL PROGRAMMING	120	1,7	18		30	48	72							120								4		4
2.11	DT1E1643	Multimedia texnologiyalari	MULTIMEDIA TECHNOLOGIES	180	2,5	27		45	72	108							180								6		6
	DT1E1644	Kompyuter o'yinlarini yaratish	COMPUTER GAMES DEVELOPMENT	180	2,5	27		45	72	108							180								6		6
2.12	DT1E1645	Dasturiy ta'minot sifatini ta'minlash	SOFTWARE QUALITY ASSURANCE	120	1,7	18		30	48	72							120								4		4
	DT1E1646	Blokcheyn asoslari	BLOCKCHAIN FUNDAMENTALS	120	1,7	18		30	48	72							120								4		4
2.13	EC4E1647	Loyiha boshqaruvi	PROJECT MANAGEMENT	120	1,7	18		30	48	72							120								4		4
	DT1E1648	Elektron hukumat va AT huquqi	E-GOVERNMENT AND IT LAW	120	1,7	18		30	48	72							120								4		4
3.00	**-**	**Malakaviy amaliyot**	**Practical modules**	**900**	**12,5**	**0**	**0**	**0**	**0**	**900**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**900**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**30**	**30**
3.01		Bitiruv oldi malakaviy amaliyot	PRE-GRADUATION PROFESSIONAL INTERNSHIP	900	12,5				0	900								900								30	30
4.00	**-**	**Yakuniy davlat attestatsiyasi**	**Final State attestation**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
4.01		Fanlararo yakuniy attestatsiya	FINAL CROSS-DISCIPLINARY EXAMINATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Bitiruv malakaviy ishi (loyihasi)	GRADUATION QUALIFICATION WORK (PROJECT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for the 4 years (Compulsory and Elective modules)				**6300**	**87,5**	**1086**	**33**	**1401**	**2520**	**3780**	**900**	**900**	**900**	**900**	**900**	**900**	**900**	**0**	**30**	**30**	**30**	**30**	**30**	**30**	**0**	**210**
Total for the 4 years				**7200**	**100**	**1086**	**33**	**1401**	**2520**	**4680**	**900**	**900**	**900**	**900**	**900**	**900**	**900**	**900**	**30**	**30**	**30**	**30**	**30**	**30**	**30**	**240**