

KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT

PROGRAMME CURRICULUM

*Approved by the University Council
August 24, 2026, Act №1*

KOSMIK TEXNOLOGIYALARI / SPACE TECHNOLOGIES - 60711600

Akademik daraja:	Bakalavr
O'qish davomiyligi:	4 yil
Ta'lim shakli:	Kunduzgi
Beriladigan kvalifikatsiya:	Kosmik tizimlar muhandisi

Academic Degree:	Bachelor
Duration of Study:	4 Years
Mode of Study:	Full-time
Qualification Awarded:	Space Systems Engineer

I. PROCESS SCHEDULE

[illegible]

Orientation week **T**heoretical and Practical Instruction **A**ssessment **I** Professional Internship **V**acation **F**inal 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

U.A. Tashmurotov

Head of the Education Quality Assurance Department

Z.B. Sharipova

Head of the Department of Energy and Applied Sciences

M.R. Sherbaev

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

KOSMIK TEXNOLOGIYALARI / SPACE TECHNOLOGIES - 60711600

№	Course Code	Course / Learning Activity	Total Workload		Student Workload (contact hours)				Student-centered learning	Distribution of Total hours								Distribution of ECTS credits								ECTS credits														
					Lectures	Seminar	PBL/CBL, Lab., Pract	Total		Courses								Courses																						
			1							2				3				4				1					2				3				4					
			Weeks								Weeks																													
			36							36		40		36		36		36		40		36																		
			Semesters								Semesters																													
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8																									
																	1	2	3	4	5	6	7	8																
1.00	-	Majburiy fanlar	Compulsory modules	4620	64,2	906	15	927	1848	2772	900	900	630	540	570	480	600	0	30	30	21	18	19	16	20	0	154													
1.01	PH4M0074	O'zbek (rus) tili	UZBEK (RUSSIAN) LANGUAGE	120	1,7			48	48	72		120								4							4													
1.02	EC5M0022	Dinshunoslik	RELIGIOUS STUDIES	120	1,7	48			48	72	120							4									4													
1.03	PH2M0076-0077	Xorijiy til	FOREIGN LANGUAGE	240	3,3			96	96	144	120	120							4	4							8													
1.04	DT2M0247-0248	Fizika	PHYSICS	300	4,2	60		60	120	180	150	150							5	5							10													
1.05	DT2M0249-0251	Oliy matematika	ADVANCED MATHEMATICS	420	5,8	78		90	168	252	150	150	120						5	5	4						14													
1.06	EC5M0005	O'zbekistonning eng yangi tarixi	CONTEMPORARY HISTORY OF UZBEKISTAN	120	1,7	33	15		48	72		120								4							4													
1.07	DT3M0083	Texnik tizimlarda axborot texnologiyalari	INFORMATION TECHNOLOGIES IN TECHNICAL SYSTEMS	120	1,7	18		30	48	72		120								4							4													
1.08	EN1M0252	Muhandislik va kompyuter grafikasi	ENGINEERING AND COMPUTER GRAPHICS	180	2,5	30		42	72	108	180							6									6													
1.09	EC4M0253	Soha iqtisodiyoti va menejmenti	INDUSTRIAL ECONOMICS AND MANAGEMENT	120	1,7	24		24	48	72						120								4			4													
1.10	EC5M0011	Falsafa	PHILOSOPHY	120	1,7	48			48	72		120								4							4													
1.11	EN2M0254	Ekologiya	ECOLOGY	120	1,7	48			48	72					120									4			4													
1.12	EN1M0088	Hayot faoliyati xavfsizligi	OCCUPATIONAL HEALTH AND SAFETY	120	1,7	24		24	48	72						120									4		4													
1.13	EN1M0255-0256	Raketa-kosmik texnikasi asoslari	FUNDAMENTALS OF ROCKET AND SPACE TECHNOLOGY	300	4,2	60		60	120	180	180	120							6	4							10													
1.14	EN1M0257-0258	Sun'iy yo'doshlar konstruksiyasi va ularning tizimlarini loyihalash	SATELLITE DESIGN AND SPACECRAFT SYSTEMS ENGINEERING	240	3,3	45		51	96	144			120	120						4	4						8													
1.15	EN1M0259-0260	Kosmik vazifalarni tahlil qilish va tuzish	SPACE MISSION ANALYSIS AND DESIGN	240	3,3	45		51	96	144					120	120								4	4		8													
1.16	EN1M0261-0262	Kosmik parvoz mexanikasi	SPACEFLIGHT MECHANICS	240	3,3	45		51	96	144			120	120						4	4						8													
1.17	EN1M0263-0264	Sun'iy yo'doshlar aloqa asoslari	FUNDAMENTALS OF SATELLITE COMMUNICATIONS	300	4,2	60		60	120	180				150	150						5	5					10													
1.18	EN1M0265	Kosmik elektron asboblari	SPACE ELECTRONIC INSTRUMENTS	120	1,7	30		18	48	72					120							4					4													
1.19	EN1M0266-0267	GIS-texnologiyalar, yer ustidagi obyektlar va jarayonlarni monitoring qilish	GIS TECHNOLOGIES AND MONITORING OF TERRESTRIAL OBJECTS AND PROCESSES	240	3,3	45		51	96	144						120	120							4	4		8													
1.20	EN1M0268-0270	Kosmik tasvirlarni qayta ishlash	SPACE IMAGE PROCESSING	360	5,0	69		75	144	216					120	120	120							4	4	4	12													
1.21	EN1M0271-0272	Kosmik tizimlar	SPACE SYSTEMS	300	4,2	60		60	120	180			150	150						5	5						10													
1.22	EC4M0273	Ma'muriy boshqaruv va ish yuritish usullari	ADMINISTRATIVE MANAGEMENT AND OFFICE ADMINISTRATION METHODS	180	2,5	36		36	72	108					180							6					6													
2.00	-	Tanlov fanlar	Elective modules	1560	21,7	300	0	324	624	936	0	0	270	360	330	300	300	0	0	0	9	12	11	10	10	0	52													
2.01	EN1E1401	Elektr zanjirlari nazariyasi asoslari	FUNDAMENTALS OF CIRCUIT THEORY	150	2,1	30		30	60	90			150							5							5													
	EN1E1402	Mexatronika asoslari	BASICS OF MECHATRONICS	150	2,1	30		30	60	90			150							5							5													
2.02	EN1E1403	Kosmik texnologiyalarga kirish	INTRODUCTION TO SPACE TECHNOLOGY	120	1,7	30		18	48	72			120							4							4													
	EN1E1404	Kosmik muhandislik asoslari	BASICS OF SPACE ENGINEERING	120	1,7	30		18	48	72			120							4							4													
2.03	EN1E1405	Mikroprotessor texnologiyasi	MICROPROCESSOR TECHNOLOGY	180	2,5	30		42	72	108				180							6						6													
	EN2E1406	Mexatronik tizimlarni loyihalash	DESIGN OF MECHATRONIC SYSTEMS	180	2,5	30		42	72	108					180						6						6													
2.04	EN1E1407	Dasturlanuvchi mantiqiy kontrollerlar	PROGRAMMABLE LOGIC CONTROLLERS	180	2,5	30		42	72	108				180							6						6													
	EN1E1408	Sanoat boshqaruv tizimlari	INDUSTRIAL CONTROL SYSTEMS	180	2,5	30		42	72	108				180							6						6													
2.05	EN1E1409	Nanosun'iy yo'doshlarni loyihalash	NANOSATELLITE DESIGN	150	2,1	30		30	60	90					150							5					5													
	EN1E1410	Pikosun'iy yo'doshlarni loyihalash	PICOSATELLITE DESIGN	150	2,1	30		30	60	90					150							5					5													
2.06	EN1E1411	Kosmik apparatlarni yig'ish va sinovdan o'tkazish texnologiyasi	SPACECRAFT ASSEMBLY AND TESTING TECHNOLOGY	180	2,5	30		42	72	108					180							6					6													
	EN1E1412	Bort boshqaruv tizimini sinovdan o'tkazish texnologiyasi	TESTING TECHNOLOGY OF ONBOARD CONTROL SYSTEM	180	2,5	30		42	72	108					180							6					6													
2.07	EN1E1413	Kosmik apparatlarning elektr ta'minoti tizimlari	SPACECRAFT POWER SUPPLY SYSTEMS	180	2,5	30		42	72	108						180							6				6													
	EN1E1414	Kosmik apparatlarning issiqlik boshqaruv tizimlari	SPACECRAFT THERMAL CONTROL SYSTEMS	180	2,5	30		42	72	108						180							6				6													
	EN1E1415	Kosmik apparatlarning orientatsiya va barqarorlashtirish tizimlari asoslari	FUNDAMENTALS OF ORIENTATION AND STABILIZATION SYSTEMS FOR SPACECRAFT	120	1,7	30		18	48	72						120								4			4													
2.08	EN1E1416	Yerni masofadan zondlash ma'lumotlarini qayta ishlash uchun dasturiy paketlar	SOFTWARE PACKAGES FOR DATA PROCESSING OF REMOTE SENSING OF THE EARTH	120	1,7	30		18	48	72						120									4		4													
	EN1E1417	Fazoviy ma'lumotlar infratuzilmasi	SPATIAL DATA INFRASTRUCTURE	150	2,1	30		30	60	90							150								5		5													
2.09	EN1E1418	Raqamli ishlab chiqarish va loyihalash texnologiyalari	DIGITAL MANUFACTURING AND DESIGN TECHNOLOGIES	150	2,1	30		30	60	90							150								5		5													
2.10	EN1E1419	Sun'iy yo'dosh aloqa tizimlari	SATELLITE COMMUNICATION SYSTEMS	150	2,1	30		30	60	90							150								5		5													
	EN1E1420	Ma'lumotlarni talqin qilish usullari	DATA INTERPRETATION METHODS	150	2,1	30		30	60	90							150								5		5													
3.00	-	Malakaviy amaliyot	Practical modules	1020	14,2	0	0	0	0	1020	0	0	0	0	0	120	0	900	0	0	0	0	0	4	0	30	34													
3.01	EN1P2115	Malakaviy amaliyot	PROFESSIONAL INTERNSHIP	120	1,7			0		120					120								4				4													
3.02	EN1P2116	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	EN1A2249	Fanlararo yakuniy attestatsiya	FINAL CROSS-DISCIPLINARY EXAMINATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-													
	EN1G2299	Bitiruv malakaviy ishi (loyihasi)	GRADUATION QUALIFICATION WORK (PROJECT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-													
Total for the 4 years (Compulsory and Elective modules)				6180	85,8	1206	15	1251	2472	3708	900	900	900	900	900	780	900	0	30	30	30	30	30	26	30	0	206													
Total for the 4 years				7200	100	1206	15	1251	2472	4728	900	900	900	900	900	900	900	0	30	30	30	30	30	30	30	0	244													