KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT

PROGRAMME CURRICULUM

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

MUQOBIL ENERGIYA / RENEWABLE ENERGY - 60712100

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:	Qayta tiklanuvchi energiya manbalari muhandisi	**Qualification Awarded:**	Renewable Energy Engineer

I. PROCESS SCHEDULE

Weeks

COURSE	September				October				November					December				Junuary					February			
	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
1	ow																A	A	V	V	V	ow				
2	ow																A	A	V	V	V	ow				
3	ow																A	A	V	V	V	ow				
4	ow																A	A	V	ow	I	I	I	I	I	I

COURSE	March				April				May					June				July				August					Academic Activity						Vacation	Overall Total
																											Total	*from that*						
	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		Theoretical and Practical Instruction	Assessment	Professional Internship	Final Attestation / Bachelor's Thesis	Orientation week		
1												A	A	V	V	V	V	V	V	V	V	V	V	V	V	V	36	30	4	0	0	2	16	52
2												A	A	V	V	V	V	V	V	V	V	V	V	V	V	V	36	30	4	0	0	2	16	52
3												A	A	I	I	I	I	V	V	V	V	V	V	V	V	V	40	30	4	4	0	2	12	52
4	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	**148**	**105**	**15**	**19**	**1**	**8**	**45**	**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	**U.A. Tashmuratov**
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

MUQOBIL ENERGIYA / RENEWABLE ENERGY - 60712100

№	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		40		36		36		36		40		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**	**4410**	**61,3**	**861**	**15**	**888**	**1764**	**2646**	**900**	**900**	**420**	**630**	**390**	**420**	**750**	**0**	**30**	**30**	**14**	**21**	**13**	**14**	**25**	**0**	**147**
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	GM1M0274	Kimyo	CHEMISTRY	120	1,7	24		24	48	72		120								4							4
1.04	PH2M0076-0077	Xorijiy til	FOREIGN LANGUAGE	240	3,3			96	96	144		120		120						4		4					8
1.05	DT2M0078-0079	Fizika	PHYSICS	300	4,2	60		60	120	180	180	120							6	4							10
1.06	DT2M0275-0277	Oliy matematika	ADVANCED MATHEMATICS	420	5,8	78		90	168	252	180	180	60						6	6	2						14
1.07	EC5M0005	O'zbekistonning eng yangi tarixi	CONTEMPORARY HISTORY OF UZBEKISTAN	120	1,7	33	15		48	72		120								4							4
1.08	DT3M0083	Texnik tizimlarda axborot texnologiyalari	INFORMATION TECHNOLOGIES IN TECHNICAL SYSTEMS	120	1,7	18		30	48	72	120								4								4
1.09	EN1M0278	Muhandislik va kompyuter grafikasi	ENGINEERING AND COMPUTER GRAPHICS	120	1,7	18		30	48	72	120								4								4
1.10	EN2M0279	Metrologiya va standartlashtirish	METROLOGY AND STANDARDIZATION	120	1,7	30		18	48	72				120								4					4
1.11	EC4M0253	Soha iqtisodiyoti va menejmenti	INDUSTRIAL ECONOMICS AND MANAGEMENT	120	1,7	30		18	48	72						120								4			4
1.12	EC5M0011	Falsafa	PHILOSOPHY	120	1,7	48			48	72					120								4				4
1.13	EN2M0254	Ekologiya	ECOLOGY	120	1,7	48			48	72					120								4				4
1.14	EN1M0088	Hayot faoliyati xavfsizligi	OCCUPATIONAL HEALTH AND SAFETY	120	1,7	30		18	48	72							120								4		4
1.15	EN2M0280	Mexanika 2	MECHANICS 2	120	1,7	30		18	48	72				120								4					4
1.16	EN1M0281-0282	Nazariy elektrotexnika	THEORETICAL ELECTRICAL ENGINEERING	270	3,8	48		60	108	162			150	120							5	4					9
1.17	EN1M0283-0284	Issiqlik texnikasi va gidrogazodinamika	THERMAL ENGINEERING AND FLUID DYNAMICS	330	4,6	60		72	132	198		120	210							4	7						11
1.18	EN1M0285	Yo'nalishga kirish	INTRODUCTION TO THE PROFESSION	180	2,5	30		42	72	108	180								6								6
1.19	EN1M0286-0287	Quyosh radiatsiyasini konvertatsiya qilish	SOLAR RADIATION CONVERSION	300	4,2	60		60	120	180						150	150							5	5		10
1.20	EN1M0288-0289	Shamol turbinalarining yengil komponentlari (1-qism); Shamol turbinalarining parametrlarini hisoblash (2-qism)	LIGHTWEIGHT COMPONENTS OF WIND TURBINES (PART I); CALCULATION OF WIND TURBINE PARAMETERS (PART II)	270	3,8	48		60	108	162						150	120							5	4		9
1.21	EN1M0290-0291	Loyihalar boshqaruvi (1-qism); Jarayonlarni simulyatsiya qilish va foydalanish (2-qism)	PROJECT MANAGEMENT (PART I), PROCESS SIMULATION AND OPERATION (PART II)	300	4,2	60		60	120	180				150	150							5	5				10
1.22	EN1M0292	Biomassa va geotermal manbalar va ular asosidagi energetik tizimlar	BIOMASS AND GEOTHERMAL ENERGY SOURCES AND THEIR ENERGY SYSTEMS	180	2,5	30		42	72	108							180								6		6
1.23	EN1M0293	Energiya samaradorligi, energiya boshqaruvi va ekologik barqarorlik	ENERGY EFFICIENCY, ENERGY MANAGEMENT AND ENVIRONMENTAL SUSTAINABILITY	180	2,5	30		42	72	108							180								6		6
2.00	**-**	**Tanlov fanlar**	**Elective modules**	**1770**	**24,6**	**309**	**0**	**399**	**708**	**1062**	**0**	**0**	**480**	**270**	**510**	**360**	**150**	**0**	**0**	**0**	**16**	**9**	**17**	**12**	**5**	**0**	**59**
2.01	EN1E1421	Muhandislik dasturiy ilovalari	ENGINEERING SOFTWARE APPLICATIONS	120	1,7	18		30	48	72			120								4						4
	EN1E1422	Muhandislik dasturiy tizimlari	ENGINEERING SOFTWARE SYSTEMS	120	1,7	18		30	48	72			120								4						4
2.02	EN1E1259	Elektr chizmachilik va CAD	DRAWING ELECTRICITY AND CAD	180	2,5	30		42	72	108			180								6						6
	EN1E1260	Elektrotexnik chizmachilik va CAD	ELECTRICAL ENGINEERING DRAWING AND CAD	180	2,5	30		42	72	108			180								6						6
2.03	EN1E1423	Elektr amaliyoti asoslari	ELECTRIC BASIC PRACTICE	180	2,5	30		42	72	108			180								6						6
	EN1E1424	Elektr simlarini ulash amaliyoti	ELECTRICAL WIRING PRACTICE	180	2,5	30		42	72	108			180								6						6
2.04	EN1E1425	Raqamli mantiqiy sxemalar	DIGITAL LOGIC CIRCUIT	150	2,1	30		30	60	90				150								5					5
	EN1E1426	Raqamli elektronika	DIGITAL ELECTRONICS	150	2,1	30		30	60	90				150								5					5
2.05	EN1E1427	Avtomatik boshqaruv	AUTOMATIC CONTROL	120	1,7	18		30	48	72				120								4					4
	EN1E1428	Sanoat boshqaruv tizimlari 1	INDUSTRIAL CONTROL SYSTEMS 1	120	1,7	18		30	48	72				120								4					4
2.06	EN1E1429	Dasturlanuvchi mantiqiy kontrollerlar	PROGRAMMABLE LOGIC CONTROLLERS	240	3,3	45		51	96	144					240								8				8
	EN1E1430	Sanoat boshqaruv tizimlari 2	INDUSTRIAL CONTROL SYSTEMS 2	240	3,3	45		51	96	144					240								8				8
2.07	EN1E1431	Elektr mashinalari	ELECTRICAL MACHINES	150	2,1	30		30	60	90					150								5				5
	EN1E1432	Energiya iste'molini boshqarish	ENERGY CONSUMPTION MANAGEMENT	150	2,1	30		30	60	90					150								5				5
2.08	EN1E1433	Shamol energetikasi	WIND POWER	120	1,7	18		30	48	72					120								4				4
	EN1E1434	Elektr stansiyalari	POWER PLANTS	120	1,7	18		30	48	72					120								4				4
2.09	EN1E1273	Qayta tiklanuvchi energiyani boshqarish	RENEWABLE ENERGY MANAGEMENT	180	2,5	30		42	72	108						180								6			6
	EC4E1268	Sanoat obyektlari muhandisligi va loyihalarni boshqarish	PLANT ENGINEERING AND PROJECT MANAGEMENT	180	2,5	30		42	72	108						180								6			6
2.10	EN1E1435	Qayta tiklanuvchi energetika muhandisligi	RENEWABLE ENERGY ENGINEERING	180	2,5	30		42	72	108						180								6			6
	EN1E1436	Barqaror energetika muhandisligi	SUSTAINABLE ENERGY ENGINEERING	180	2,5	30		42	72	108						180								6			6
2.11	EN1E1437	Fotovoltaika asoslari	FUNDAMENTALS OF PHOTOVOLTAICS	150	2,1	30		30	60	90							150								5		5
	EN1E1438	Quyosh fotovoltaik texnologiyalari	SOLAR PHOTOVOLTAIC TECHNOLOGY	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	EN1P2117	Malakaviy amaliyot	PROFESSIONAL INTERNSHIP	120	1,7				0	120						120								4			4
3.02	EN1P2118	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	EN1A2250	Fanlararo yakuniy attestatsiya	FINAL CROSS-DISCIPLINARY EXAMINATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EN1G2300	Bitiruv malakaviy ishi (loyihasi)	GRADUATION QUALIFICATION WORK (PROJECT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for the 4 years (Compulsory and Elective modules)				**6180**	**85,8**	**1170**	**15**	**1287**	**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**	**1170**	**15**	**1287**	**2472**	**4728**	**900**	**900**	**900**	**900**	**900**	**900**	**900**	**900**	**30**	**30**	**30**	**30**	**30**	**30**	**30**	**30**	**240**