

[illegible]

IL O'OUV REJA / CURRICULUM

T/r S/n	Fanning malakaviy kodi / Qualification code of the discipline	O'quv fanlari, bloklar va faoliyat turlarining nomlari / Names of academic disciplines, blocks, and types of activities	Talabning o'quv yuklamasi (soatlarida) / Student workload (in hours)												Talabning o'quv yuklamasi (soatlarida) / Student workload (in hours)												Sumestrdagi kreditlar miqdori / Amount of credits per semester		Semestrdagi haqshak soatlar / Weekly hours per semester													
			Umumiy yuklama hajmi / (Classroom sessions (hours))						Audiatoriya mashg'ulotlari (soatlarida) / Classroom sessions (hours)						Mustaqil ta'lim / Independent learning						Umumiy yuklama hajmi / (Classroom sessions (hours))										Audiatoriya mashg'ulotlari (soatlarida) / Classroom sessions (hours)						Mustaqil ta'lim / Independent learning					
			Jami / Total	Ma'ruza / Lecture	Amaliy / Practical	Laboratoriya / Laboratory	Seminar / Seminar	Kurs ishi / Coursework	Jami / Total	Ma'ruza / Lecture	Amaliy / Practical	Laboratoriya / Laboratory	Seminar / Seminar	Kurs ishi / Coursework	Jami / Total	Ma'ruza / Lecture	Amaliy / Practical	Laboratoriya / Laboratory	Seminar / Seminar	Kurs ishi / Coursework	Jami / Total	Ma'ruza / Lecture	Amaliy / Practical	Laboratoriya / Laboratory	Seminar / Seminar	Kurs ishi / Coursework					Jami / Total	Ma'ruza / Lecture	Amaliy / Practical	Laboratoriya / Laboratory	Seminar / Seminar	Kurs ishi / Coursework						
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
BRINCHI KURS / FIRST YEAR																																										
2-semester (15 hafta) / 2nd semester (15 weeks)																																										
1.00.		Majburiy fanlar / Compulsory subjects	900	360	180	60	60	60	0	540	24	30	1.00.		Majburiy fanlar / Compulsory subjects	840	364	158	76	76	54	0	476	24	28																	
1.01.		OMT11208	120	60	30	30	30	30	0	60	4	4	1.01.		Oliy matematika / Higher mathematics	120	60	30	30	30			60	4	4																	
1.02.		UYT1104	120	60	30	30	30	30		60	4	4	1.02.		FAL1204	120	48	24	24	24	24		72	3	4																	
1.03.		KIT1106	180	60	30	30	30	30		120	4	6	1.03.		URT1204	120	60	14	46			60	4	4																		
1.04.		UPs1106	180	60	30	30	30			120	4	6	1.04.		KMK1204	120	60	30		30		60	4	4																		
1.05.		UMF11210	120	60	30	30	30	30		60	4	4	1.05.		UMF11210	180	60	30	30	30		120	4	6																		
1.06.		NOK11212	180	60	30	30	30	30		120	4	6	1.06.		NOK11212	180	76	30	30	46		104	5	6																		
		Semestr bo'yicha Jami / Total for the semester	900	360							24	30	3.00.		Malakaviy amaliyot / Qualification practice	60								2																		
															Semestr bo'yicha Jami / Total for the semester	900	360						24	30																		
															O'quv yili bo'yicha Jami / Total for the academic year	1800	720					1080	48	60																		
1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13																	
IKKINCHI KURS / SECOND YEAR																																										
3-semester (15 hafta) / 3rd semester (15 weeks)																																										
1.00.		Majburiy fanlar / Compulsory subjects	900	362	174	30	104	54	0	538	24	30	1.00.		Majburiy fanlar / Compulsory subjects	720	306	138	0	114	54	30	384	20	24																	

1.01.	SBO13408	Sinf boshqaruvi, O'quv dasturlarni ishlab chiqish va tashiq eish / Classroom Management. Curriculum design and implementation	120	48	24				24			72	3	4	1.01.	SBO13408	Sinf boshqaruvi, O'quv dasturlarni ishlab chiqish va tashiq eish / Classroom Management. Curriculum design and implementation	120	60	30				30			60	4	4	
1.02.	KKB1304	Kompleks birikmalar kimyosi / Chemistry of complex compounds	120	60	30	30						60	4	4	1.03.	FTU1404	Fizikaviy tadqiqot usullari / Physical research methods	120	48	24				24			72	3	4	
1.03.	KIK1304	Kimyoda kompyuter modelashirish / Computer modeling in chemistry	120	60	30	30						60	4	4	1.04.	AnK13412	Analitik kimyo / Analytical chemistry	180	74	30				44			30	76	5	6
1.04.	AnK13412	Analitik kimyo / Analytical chemistry	180	74	30							106	5	6	2.00.	Tanlov fanlar / Elective subjects	Tanlov fanlar / Elective subjects	120	60								60	4	4	
1.05.	FIK13412	Fizikaviy kimyo / Physical chemistry	180	60	30							120	4	6	2.01.	YTORK2404	Yangi tabiridagi O'zbekiston Respublikasi Konstitutsiyasi (ECTS) / Constitution of the Republic of Uzbekistan in the new edition (ECTS)	120	60	30				30			60	4	4	
1.06.	MDT1506	Modda tuzilishi / Structure of a substance	180	60	30							120	4	6	2.02.	SYXA2404	Sirt yuzasi xodisalarini va adsorbsiya / Surface phenomena and adsorption	120	60	30				30			60	4	4	
Semestr bo'yicha jami / Total for the semester			900	360								24	30	3.00.	Malakaviy amaliyot / Qualification practice			60	360								24	30		
Semestr bo'yicha jami / Total for the semester			900	360											O'quv yili bo'yicha jami / Total for the semester			1800	720							1080	48	60		
Semestr bo'yicha jami / Total for the semester			900	360											O'quv yili bo'yicha jami / Total for the semester			1800	720							1080	48	60		
UCHINCHI KURS																														
5-semestr (15 hafta) / 5th semester (15 weeks)																														
1.00.	Majburiy fanlar / Compulsory subjects			600	244	108	0	136	0	0	0	356	16	20	1.00.	Majburiy fanlar / Compulsory subjects			420	210	90	0	120	0	0	210	14	14		
1.01.	BOK1506	Bioorganik kimyo / Bioorganic chemistry	180	74	30			44				106	5	6	1.01.	KMT1806	Kimyoviy texnologiya / Chemical technology	120	60	30				30			60	4	4	
1.02.	ORK15612	Organik kimyo / Organic chemistry	180	74	30			44				106	5	6	1.02.	ORK15612	Organik kimyo / Organic chemistry	180	90	30				60			90	6	6	
1.03.	YMB15610	Yuqori molekulyar birikmalar kimyosi / Chemistry of high molecular compounds	120	48	24			24				72	3	4	1.03.	YMB15610	Yuqori molekulyar birikmalar kimyosi / Chemistry of high molecular compounds	120	60	30				30			60	4	4	
1.04.	KOK1506	Kolloid kimyo / Colloid chemistry	120	48	24			24				72	3	4	Tanlov fanlar / Elective subjects			240	120								120	8	8	
2.00.	Tanlov fanlar / Elective subjects			240	105							135	7	8	2.00.	Tanlov fanlar / Elective subjects			240	120							120	8	8	
2.01.	ATKQZ504	Axborot texnologiyalarini kasbiy faoliyatda qo'llash (ECTS) / Application of information technologies in professional activities (ECTS)	120	60	30	14		16				60	4	4	2.01.	KSXT2604	Kasbiy sohada xorijiy tillar (ECTS) / Foreign languages in the professional field (ECTS)	120	60								60	4	4	
2.02.	KK2504	Kvant kimyo / Quantum chemistry	120	60	30			30				60	4	4	2.02.	AMK2604	Atrof muxit kimyosi / Environmental chemistry	120	60	30				30			60	4	4	
2.03.	EK2504	Elektrokimyo / Electrochemistry	120	48	16	16		16				72	3	4	2.03.	NGK2604	Neft-gaz kimyosi / Petrochemistry	120	60	30				30			60	4	4	
2.04.	YFETJM2504	Yoshlar fiziologiyasi, Ekologik tarbiya va jamoaviy madaniyat (ECTS) / Physiology of youth, Environmental education and physical education (ECTS)	120	48	16	16		16				72	3	4	2.04.	XBT2704	Yashil kimyo / Green chemistry	120	60	30				30			60	4	4	
3.00.	Malakaviy amaliyot / Qualification practice			60	349									2	3.00.	Malakaviy amaliyot / Qualification practice			240								2	8		
Semestr bo'yicha jami / Total for the semester			900	349									23	30	Semestr bo'yicha jami / Total for the semester			900	360							24	30			
Semestr bo'yicha jami / Total for the semester			900	349											O'quv yili bo'yicha jami / Total for the semester			1800	709							1091	47	60		
Semestr bo'yicha jami / Total for the semester			900	349											O'quv yili bo'yicha jami / Total for the semester			1800	709							1091	47	60		
TO'RTINCHI KURS																														
7-semestr (15 hafta) / 7th semester (15 weeks)																														
1.00.	Majburiy fanlar / Compulsory subjects			600	300	120	26	90	64	0	300	20	20	2.00.	Tanlov fanlar / Elective subjects			0	120								120	8		
1.01.	KOM17810	Kimyo o'qitish metodikasi / Methods of teaching chemistry	180	90	30			30	30		90	6	6	2.01.	TBK2704	Tabiiy birikmalar kimyosi / Chemistry of natural compounds	120	60	30				30			60	4	4		
1.02.	TAB1704	Tilinda baholash / Assessment in education	120	60	30	10			20		60	4	4	2.02.	OOMKT2704	O'zga ovqat maxsulotlarini kimyoviy tekshirish / Chemical examination of food products	120	60	30				30			60	4	4		
1.03.	KMT1706	Kimyoviy texnologiya / Chemical technology	180	90	30			60			90	6	6	2.03.	QJK2704	Qattiq jismlar kimyosi / Chemistry of solids	120	60	30				30			60	4	4		
1.04.	ITG1704	Inklyuziv ta'lim. Hospital pedagogika / Inclusive education. Hospital pedagogy	120	60	30	16			14		60	4	4	2.04.	NMS2704	Noorganik moddalar sintezi / Synthesis of inorganic substances	120	60	30				30			60	4	4		
3.00.	Malakaviy amaliyot / Qualification practice			300	360									4	3.00.	Malakaviy amaliyot / Qualification practice			660								16	22		
Semestr bo'yicha jami / Total for the semester			900	360								24	30	4.00.	Yakuniy davlat attestatsiyasi / State final attestation			240								24	30			
Semestr bo'yicha jami / Total for the semester			900	360											Semestr bo'yicha jami / Total for the semester			900	360							1080	48	60		
Semestr bo'yicha jami / Total for the semester			900	360											UMUMIY JAMI / TOTAL			7200	2865								4335	191	240	

№	Yundama taqdimoti	Sout	Kredit
1.	Majburiy fanlar	4980	166
2.	Tanlov fanlar	600	20
3.	Malakaviy amaliyot	1380	46
4	Yakuniy davlat attestatsiyasi / State final attestation	240	8
JAMI		7 200	240

1. Malakaviy amaliyot - majburiy va tanlov fanlaridan nazariy bilimlarni mustahkamlash va amaliy (ishlab chiqarish) jarayonlari bilan uyg'unlashtirish, tegishli amaliy ko'nikmalar, kompetensiyalar va malakalarni shakllantirishga qaratiladi hamda o'quv jarayonidan ajralgan holda tashkil etiladi. / Qualification practice is aimed at consolidating theoretical knowledge in compulsory and elective subjects and combining it with practical (production) processes, forming relevant practical skills, competencies, and qualifications, and is organized separately from the educational process.
2. 1-3 kurs talabalarining yozgi ta'lim davrida avvalgi semestrlarda o'zlashtirilgan fanlari uchun yozgi semestr tashkil qilinishi mumkin. Bunda yozgi ta'lim birinchi haftasi ro'yxatga olish haftaligi, keyingi to'rt hafta yozgi semestr hisobidan akademik davr hisoblanadi. / During the summer holidays for 1st-3rd year students, a summer semester may be organized for subjects not covered in previous semesters. In this case, the first week of summer vacation is the registration week, the next four weeks are the academic period at the expense of the summer semester.
3. O'quv rejaga ixtisoslikka oid tanlov fanlari kadrlar buyurtmashlarining talablari hamda xalqaro reyting bo'yicha dunyoning TOP-300 taligiga kirgan OTMlar ta'lim dasturlari asosida tashkil etiladi. / Elective disciplines related to the specialty were included in the curriculum based on the requirements of personnel customers and educational programs of universities that are in the TOP-300 of the world in international rankings.
4. *Kinyo o'qish metodikasi fani tarkibiga "Xalqaro baholash asoslari" (xalqaro baholash dasturlari: PISA, TIMSS, PIRLS, TALIS bo'yicha kasbiy ko'nikmalarni shakllantirishni nazarda tutuvchi) moduli kiritilishi nazarda tutiladi. / *The subject "Methods of Teaching Chemistry" will include the module "Fundamentals of International Assessment" (providing for the formation of professional skills in international assessment programs: PISA, TIMSS, PIRLS, TALIS).
5. Bittiruv malakaviy ishi tarkibiga uni himoya qilish bo'yicha Davlat attestatsiyalari ham kiradi. BMM himoya qilmaydigan talabalar 8 semestrdagi 8 kreditga teng tanlov fanlarini o'zlashtirishi lozim. / The composition of the final qualifying work also includes state attestations for its defense. Students who do not defend a BMM must master elective courses worth 8 credits in the 8th semester.
6. Oliy ta'lim muassasasi ixtisoslik fanlarining dasturlarini ishlab chiqishda kadrlar buyurtmashlarining talablari hamda xalqaro reyting bo'yicha dunyoning TOP-300 taligiga kirgan OTMlar fan dasturlarini o'zlashtirishi lozim. / The higher educational institution takes into account the requirements of personnel customers when developing specialized subject programs, as well as the subject programs of universities that are in the TOP-300 of the world in the international ranking.
7. Kurs ishlari uchun talabaga mustaqil ta'lim soatlaridan 30 (o'ttiz) akademik soatni ajratgan holda 1 (bir) kredit beriladi. / For coursework, the student is given 1 (one) credit with the allocation of 30 (thirty) academic hours of independent study.
8. O'zbek (rus) tili fani tarkibiga Davlat tiliida ish yuritish moduli ham kiritiladi. / The Uzbek (Russian) language subject will also include the State Language Office Module.

O'quv jarayonining tarkibiy qismlari / Components of the educational process			Davlat attestatsiyasi / State certification	
Haftalar soni / Number of weeks	Semestr / Semester			
75	1, 3, 4			
45	5 - 8			
3	2, 4, 5			
26	1 - 8			
4	8			
42	1 - 8			
9	1, 2, 3, 4, 5, 6, 7			
Jami / Total		204		

O'quv ishlari bo'yicha prorektor / Vice-Rector for Academic Affairs

O'quv-uslubiy boshqarmasi boshlig'i / Head of the Educational and Methodological Department

Fakultet dekani / Faculty dean

Kafedra mudiri

O. Bazarov / O. Bazarov

B. Barathbayev / B. Barathbayev

V. Xo'jayev / V. Khodzhaev

G. Oshilov / G. Oshilov

Markaz o'quv reja qo'qon davlat universiteti Kengashining 2025-yil 29.08.2025. yil 1-sonli qarori bilan ma'qullangan. / This curriculum was approved by the decision of the Council of Kokand State University dated 29.08.2025. No. 1.