



O'ZBEKISTON RESPUBLIKASI OLIY TA'LIM, FAN VA INNOVATSIYALAR VAZIRLIGI
MIRZO ULUG'BEK NOMIDAGI
SAMARQAND DAVLAT ARHITEKTURA QURILISH UNIVERSITETI



Faculty of Electrical and Mechanical
Engineering

Electrical Engineering

Bachelor Degree
Bakalavr

Elektr va mexanika muhandisligi
fakulteti

Elektr Muhandisligi

Full-Time Education – 4 years
Kunduzgi Ta'lim – 4 yil

Department of Electrical and Mechanical
Engineering

Ta'lim yo'nalishi

2024/2025

Elektr va mexanika muhandisligi
kafedrası

"TASDIQLAYMAN"
Mirzo Ulug'bek nomidagi
Samarqand davlat arxitektura-qurilish
universiteti rektori
Ch.J. Turkyilmaz
2024-yil
1. Year - Fall
1. Kurs - Kuzgi

1. Semester

1-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM1010		Elektrotexnikaga kirish	Introduction to Electrical Engineering	2	0	0	30	0	0	60	90	3
ELM1030		Muhandislik matematikasi	Engineering Mathematics	2	0	0	30	0	0	90	120	4
FIZ1010		Fizika 1	Physics 1	3	0	2	45	0	30	75	150	5
KRM4490		Kasbiy salomatlik va xavfsizlik 1	Occupational Health and Safety 1	2	0	0	30	0	0	30	60	2
MAT1030		Matematika 1	Mathematics 1	3	2	0	45	30	0	105	180	6
MAT1120		Chiziqli algebra	Linear Algebra	2	0	0	30	0	0	60	90	3
ZAD1010		Ingliz tili 1	English I	3	0	0	45	0	0	45	90	3
OZDX001		O'zbek Tili	Uzbek Language	2	0	0	30	0	0	30	60	2
OZTX001		O'zbekiston tarixi	History of Uzbekistan	2	0	0	30	0	0	30	60	2
		Jami	Total	21	2	2	315	30	30	525	900	30

1. Year - Spring

1. Kurs - Bahargi

2. Semester

2-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM1020		Mintaqa nazariyasi	Circuit Theory	4	0	0	60	0	0	90	150	5
FIZ1020		Fizika 2	Physics 2	3	0	2	45	0	30	75	150	5
KIM1040		Umumiy kimyo	General Chemistry	3	0	2	45	0	30	75	150	5
KRM4500		Kasbiy salomatlik va xavfsizlik 2	Occupational Health and Safety 2	2	0	0	30	0	0	30	60	2
MAT1040		Matematika 2	Mathematics 2	3	2	0	45	30	0	105	180	6
ZAD1020		Ingliz tili 2	English 2	3	0	0	45	0	0	45	90	3
OZDX001		O'zbek Tili	Uzbek Language	2	0	0	30	0	0	30	60	2
OZTX001		O'zbekiston tarixi	History of Uzbekistan	2	0	0	30	0	0	30	60	2
		Jami	Total	22	2	4	330	30	60	480	900	30



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1. Year - Spring

2. Semester

1. Kurs - Bahargi

2-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM1020		Mintaqa nazariyasi	Circuit Theory	4	0	0	60	0	0	90	150	5
FIZ1020		Fizika 2	Physics 2	3	0	2	45	0	30	75	150	5
KIM1040		Umumiy kimyo	General Chemistry	3	0	2	45	0	30	75	150	5
KRM4500		Kasbiy salomatlik va xavfsizlik 2	Occupational Health and Safety 2	2	0	0	30	0	0	30	60	2
MAT1040		Matematika 2	Mathematics 2	3	2	0	45	30	0	105	180	6
ZAD1020		Ingliz tili 2	English 2	3	0	0	45	0	0	45	90	3
OZDX001		O'zbek Tili	Uzbek Language	2	0	0	30	0	0	30	60	2
OZTX001		O'zbekiston tarixi	History of Uzbekistan	2	0	0	30	0	0	30	60	2
		Jami	Total	22	2	4	330	30	60	480	900	30

2. Year - Fall

3. Semester

2. Kurs - Kuzgi

3-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM2080		Elektron tahlil	Circuit Analysis	3	0	0	45	0	0	75	120	4
ELM2100		Elektromagnit maydon nazariyasi	Electromagnetic Field Theory	3	0	0	45	0	0	105	150	5
ELM2130		Injinirovingda chizish va dizayn	Drawing and Design in Engineering	2	2	0	30	30	0	60	120	4
ELM2160		Ehtimollik va statistika	Probability and Statistics	3	0	0	45	0	0	75	120	4
MAT2120		Differensial tenglamalar	Differential Equations	4	0	0	60	0	0	90	150	5
ELMX001		Kasbiy Tanlov - 1	Occupational Elective - 1	3	0	0	45	0	0	75	120	4
GUMX001		Falsafa	Philosophy	4	0	0	60	0	0	60	120	4
		Jami	Total	22	2	0	330	30	0	540	900	30



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2. Year - Spring

4. Semester

2. Kurs - Bahargi

4-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM2010		Umumiy amaliyot	General Internship	0	0	0	0	0	0	90	90	3
ELM2060		Elektronika	Electronics	3	0	0	45	0	0	75	120	4
ELM2110	ELM1020	Elektr zabtasi laboratoriyasi	Electrical Circuit Laboratory	0	0	2	0	0	30	30	60	2
ELM2140		Yoritish muhandisligi	Lighting Engineering	3	0	2	45	0	30	75	150	5
ELM2170		Energiya yaratish	Energy Generation	3	0	0	45	0	0	75	120	4
ELM2180		Algoritmlar va dasturlash	Algorithms and Programming	2	0	2	30	0	30	60	120	4
ELMX001		Kasbiy Tanlov - 1	Occupational Elective - 1	3	0	0	45	0	0	75	120	4
ELMX002		Kasbiy Tanlov - 2	Occupational Elective - 2	3	0	0	45	0	0	75	120	4
		Jami	Total	17	0	6	255	0	90	555	900	30

3. Year - Fall

5. Semester

3. Kurs - Kuzgi

5-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM3010		Elektr texnikasi 1	Electric Machinery 1	3	0	0	45	0	0	105	150	5
ELM3030		Quvvat Electronics 1	Power Electronics 1	3	0	0	45	0	0	105	150	5
ELM3040		Yuqori kuchlanish texnikasi	High Voltage Technique	3	0	0	45	0	0	105	150	5
ELM3050		Raqamli tizimlar	Digital Systems	2	0	2	30	0	30	90	150	5
ELM3070		Energiya uzatish tizimlari	Energy Transmission Systems	3	0	0	45	0	0	135	180	6
KTAX001		Dinshunoslik	Religious Studies	4	0	0	60	0	0	90	120	4
		Jami	Total	18	0	2	270	0	30	600	900	30

3. Year - Spring

6. Semester

3. Kurs - Bahargi

6-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	

Le: Leksiya / Theory | A: Amaliy / Practice | La: Laboratoriya / Laboratory | K: Kreditlar / Credits
M: Mustaqil Ta'lim / Individual Study | U: Umumiy Yuklama / Total Hours

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ELM3020	ELM2010	Kasbiy amaliyot	Professional Internship	0	0	0	0	0	0	90	90	3
ELM3060		Elektr texnikasi 2	Electric Machinery 2	3	0	0	45	0	0	105	150	5
ELM3080		Quvvat Electroni 2	Power Electronics 2	3	0	0	45	0	0	135	180	6
ELM3090	ELM3040	Yuqori kuchlanish laboratoriyasi	High Voltage Laboratory	0	0	2	0	0	30	30	60	2
ELM3140		Energiya taqsimoti	Energy Distribution	3	0	0	45	0	0	135	180	6
ELM3150	ELM3030	Quvvat elektronika laboratoriyasi	Power Electronics Laboratory 1	0	0	2	0	0	30	30	60	2
ELMX003		Kasbiy Tanlov - 3	Occupational Elective - 3	3	0	0	45	0	0	135	180	6
		Jami	Total	12	0	4	180	0	60	660	900	30

4. Year - Fall

7. Semester

4. Kurs - Kuzgi

7-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM4070	ELM3010	Elektr mashinasi laboratoriyasi	Electric Machinery Laboratory	0	0	2	0	0	30	30	60	2
ELM4110		Elektr mashinalarini boshqarish	Control Of Electrical Machines	3	0	0	45	0	0	135	180	6
ELM4150		Muhandislik dizayni	Engineering Design	1	2	0	15	30	0	45	90	3
ELMX003		Kasbiy Tanlov - 3	Occupational Elective - 3	3	0	0	45	0	0	135	180	6
ELMX004		Kasbiy Tanlov - 4	Occupational Elective - 4	0	0	2	0	0	30	30	60	2
ELMX005		Kasbiy Tanlov - 5	Occupational Elective - 5	3	0	0	45	0	0	105	150	5
ELMX007		Kasbiy Tanlov - 7	Occupational Elective - 7	0	2	0	0	30	0	60	90	3
ITFX001		Ijtimoiy Tanlov	Social Elective	3	0	0	45	0	0	45	90	3
		Jami	Total	13	4	4	195	60	60	585	900	30



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**Elektr va mexanika muhandisligi
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4. Year - Spring

8. Semester

4. Kurs - Bahargi

8-Semestr

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM4010	ELM4150	Bitiruv tezislar	Graduation Thesis	0	8	0	0	120	0	120	240	8
ELM4080		Qayta tiklanadigan energiya tizimlari	Renewable Energy Systems	3	0	0	45	0	0	75	120	4
ELMX003		Kasbiy Tanlov - 3	Occupational Elective - 3	3	0	0	45	0	0	135	180	6
ELMX005		Kasbiy Tanlov - 5	Occupational Elective - 5	3	0	0	45	0	0	105	150	5
ELMX006		Kasbiy Tanlov - 6	Occupational Elective - 6	0	0	2	0	0	30	30	60	2
ITFX001		Ijtimoiy Tanlov	Social Elective	3	0	0	45	0	0	45	90	3
OZTX001		O'zbekiston tarixi	History of Uzbekistan	2	0	0	30	0	0	30	60	2
		Jami	Total	14	8	2	210	120	30	540	900	30

Philosophy

Falsafa

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
GUM3200		Falsafaga kirish	Introduction to Philosophy	4	0	0	60	0	0	0	60	4
GUM3210		Falsafa	Philosophy	4	0	0	60	0	0	0	60	4

Occupational Elective - 2

Kasbiy Tanlov - 2

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM3100		Birlashtirilgan issiqlik va quvvat	Combined Heat and Power	3	0	0	45	0	0	0	45	4
ELM3110		Raqamli tahlil	Numeric Analysis	3	0	0	45	0	0	0	45	4
ELM3120		Signallar va tizimlar	Signals and Systems	3	0	0	45	0	0	0	45	4
ELM3130		Temir yo'l-transport tizimiga kirish	Introduction to Rail System Engineering	3	0	0	45	0	0	0	45	4
INF1030		Dasturlash tillari	Programming Languages	3	0	0	45	0	0	0	45	4



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Occupational Elective - 7
Kasbiy Tanlov - 7

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM4640		Ko'p tarmoqli dizayn loyihasi	Multidisciplinary Design Project	0	2	0	0	30	0	0	30	3

History of Uzbekistan
O'zbekiston tarixi

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
OZT1010		O'zbekiston tarixi 1	History of Uzbekistan 1	2	0	0	30	0	0	0	30	2
OZT1020		O'zbekiston tarixi 2	History of Uzbekistan 2	2	0	0	30	0	0	0	30	2

Occupational Elective - 3
Kasbiy Tanlov - 3

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM4020		Aqlli panjaralarga kirish	Introduction to Smart Grids	3	0	0	45	0	0	0	45	6
ELM4030		Excholeyl elektr uzatish tizimlariga kirish	Introduction to Flexible AC Transmission Systems	3	0	0	45	0	0	0	45	6
ELM4040		Elektr transport vositalari	Electrical Vehicles	3	0	0	45	0	0	0	45	6
ELM4050		Temir yo'l elektr ta'minoti tizimlari (RPS)	Railway Power Supply Systems (RPSS)	3	0	0	45	0	0	0	45	6
ELM4060		Muqobil energiya manbalari va modellashtirish	Alternative Energy Sources and Modelling	3	0	0	45	0	0	0	45	6
ELM4090		Quvvat tizimini optimallashtirish	Power System Optimization	3	0	0	45	0	0	0	45	6
ELM4100		Reaktiv quvvatni qoplash	Reactive Power Compensation	3	0	0	45	0	0	0	45	6
ELM4130		Axborot texnologiyalari bo'yicha JChJ	Special Topics in Power Electronics	3	0	0	45	0	0	0	45	6
ELM4140		Qayta tiklanadigan energiya uchun elektr energiyasi	Power Electronics for Renewable Energy	3	0	0	45	0	0	0	45	6



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ELM4160		Mikrokontroller tizimining dizayni	Microcontroller Based System Design	3	0	0	45	0	0	0	45	6
ELM4170		Smart uy va energetika boshqaruvi	Smart Home and Energy Management	3	0	0	45	0	0	0	45	6
ELM4180		Kompyuterni ATRICE ELPREKTERI	Computer Aided Electric Machinery Design	3	0	0	45	0	0	0	45	6
KRM3190		Tekshiruv element usuliga kirish	Introduction to Finite Element Method	3	0	0	45	0	0	0	45	6
MAT2280		Sun'iy aqlga kirish	Introduction to Artificial Intelligence	3	0	0	45	0	0	0	45	6

Occupational Elective - 1

Kasbiy Tanlov - 1

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM2020		Elektr mashinasi asoslari	Electric Machinery Fundamentals	3	0	0	45	0	0	0	45	4
ELM2040		Aloqa	Communication	3	0	0	45	0	0	0	45	4
ELM2050		Metrologiya	Metrology	3	0	0	45	0	0	0	45	4
ELM2070		Elektromexanik energiya aylantirish	Electromechanical Energy Conversion	3	0	0	45	0	0	0	45	4
ELM2120		Statistika va dinamika	Statics and Dynamics	3	0	0	45	0	0	0	45	4
ELM2150		Muhandislikdagi C dasturlash tili va ilovalari	Introduction to C Programming Language and Applications in Engineering	3	0	0	45	0	0	0	45	4



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Occupational Elective - 6
Kashiy Tanlov - 6

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM4360		Elektr mashinasi laboratoriyasi 2	Electric Machinery Laboratory 2	0	0	2	0	0	30	0	30	2
ELM4370		Quvvat Elektronika laboratoriyasi 2	Power Electronics Laboratory 2	0	0	2	0	0	30	0	30	2
ELM4380		Dasturlashtirilgan mantiqiy kontrollerlar laboratoriyasi	Programmable Logic Controllers Laboratory	0	0	2	0	0	30	0	30	2
ELM4390		Elektr mashinalarining nazorat laboratoriyasi	Electrical Machines Control Laboratory	0	0	2	0	0	30	0	30	2
ELM4360		Elektr mashinasi laboratoriyasi 2	Electric Machinery Laboratory 2	0	0	2	0	0	30	0	30	2
ELM4370		Quvvat Elektronika laboratoriyasi 2	Power Electronics Laboratory 2	0	0	2	0	0	30	0	30	2

Occupational Elective - 5
Kashiy Tanlov - 5

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
ELM4190		Qayta tiklanadigan energiya manbalarining maqsadga muvofiqligi	Planning Feasibility of Renewable Energy Sources	3	0	0	45	0	0	0	45	5
ELM4200		Kasb ta'limi bo'yicha 1	Vocational Education in Business 1	3	0	0	45	0	0	0	45	5
ELM4210		Kasb ta'limi ushbu biznesda 2	Vocational Education in Business 2	3	0	0	45	0	0	0	45	5
ELM4270		Quvvat elektronikasining sanoat dasturlari	Industrial Applications of Power Electronics	3	0	0	45	0	0	0	45	5
ELM4280		Ergashish	Grounding	3	0	0	45	0	0	0	45	5
ELM4290		Elektr energiyasining iqtisodiyoti	Electrical Energy Economics	3	0	0	45	0	0	0	45	5
ELM4350		Quvvat tizimini himoya qilish	Power System Protection	3	0	0	45	0	0	0	45	5
ELM4400		Tushunchilar va o'rnatish vositalari bilan boshqarish vositalari	Control Circuits with Contactors and Relays	3	0	0	45	0	0	0	45	5
ELM4410		Elektr energetikasi tizimlarida kompyuterda dizayn	Computer Aided Design in Electrical Energy Systems	3	0	0	45	0	0	0	45	5



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ELM4420		Maxsus elektr mashinalar va dasturlar	Special Electric Machinery and Applications	3	0	0	45	0	0	0	45	5
ELM4430		Quvvat elektronika aylanmalarini loyihalash	Design of Power Electronics Circuits	3	0	0	45	0	0	0	45	5
ELM4440		Quvvat tizimini tahlil qilish	Power System Analysis	3	0	0	45	0	0	0	45	5
ELM4450		Elektr uzatish liniyalari	Power Transmission Lines	3	0	0	45	0	0	0	45	5
ELM4460		Servomotorlar	Servomotors	3	0	0	45	0	0	0	45	5
ELM4470		Kompyuterda ehtiyotkorlik bilan tahlil qilish	Computer Aided Circuit Analysis	3	0	0	45	0	0	0	45	5
ELM4490		Yuqori kuchlanishli maxsus muammolar	High Voltage Special Problems	3	0	0	45	0	0	0	45	5
ELM4500		Gaz izolyatsiyalangan kommunal inshoot (GIS)	Gas Insulated Switchgear Installations (GIS)	3	0	0	45	0	0	0	45	5
ELM4510		Yuqori kuchlanishli tutqichlar	High Voltage Circuit Breakers	3	0	0	45	0	0	0	45	5
ELM4520		Yo'l yoritilishi	Road Illumination	3	0	0	45	0	0	0	45	5
ELM4530		Elektrotexnikadagi kompyuter dasturlari	Computer Applications in Electrical Engineering	3	0	0	45	0	0	0	45	5
ELM4540		Yoritish va yopiq o'rnatish dizayni	Lighting and Indoor Installation Design	3	0	0	45	0	0	0	45	5
ELM4550		Energiyani taqsimlash loyihasi	Energy Distribution Project	3	0	0	45	0	0	0	45	5
ELM4560		Elektr konstruksiyalari	Electrical Switchgear Installations	3	0	0	45	0	0	0	45	5
ELM4570		Zavod tashkiloti	Factory Organization	3	0	0	45	0	0	0	45	5
ELM4590		Avtomatik boshqaruv tizimlari	Automatic Control Systems	3	0	0	45	0	0	0	45	5
ELM4600		Dasturlashtirilgan mantiqiy kontrollerlar	Programmable Logic Controllers	3	0	0	45	0	0	0	45	5
ELM4610		Kompyuterda elektron elektromagnitlatura tahlili	Computer Aided Electromagnetic Circuit Analysis	3	0	0	45	0	0	0	45	5
ELM4620		Elektr tizimlarida simmetrik va sezilmadmetrik kamchiliklarni tahlil qilish	Analysis of Symmetrical and Unsymmetrical Faults in Power Systems	3	0	0	45	0	0	0	45	5
ELM4630		Shamol turbinasi dizayni	Wind Turbine Design	3	0	0	45	0	0	0	45	5



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Engineering

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Elektr Muhandisligi

Ta'lim yo'nalishi

Full-Time Education – 4 years

Kunduzgi Ta'lim – 4 yil

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ITT3110		Barqaror rivojlanish	Sustainable Development	3	0	0	45	0	0	0	45	5
KIM4220		Biossenlar	Biosensors	3	0	0	45	0	0	0	45	5
KRM2050		Suyuqlik mexanikasi	Fluid Mechanics	3	0	0	45	0	0	0	45	5
MAT3110		Operatsion tadqiqotlar	Operational Research	3	0	0	45	0	0	0	45	5
MAT3490		Tizim dasturlash	System Programming	3	0	0	45	0	0	0	45	5
TMF3066		Kompyuter texnikasidagi maxsus mavzular	Special Topics in Computer Engineering	3	0	0	45	0	0	0	45	5
TMF3069		Axborotni olish va veb-qidiruv tizimlari	Information Retrieval and Web Search Engines	3	0	0	45	0	0	0	45	5
TMF3072		O'yinni rivojlantirishga kirish	Introduction To Game Development	3	0	0	45	0	0	0	45	5
TMF3084		Raqamli signalni qayta ishlash	Digital Signal Processing	3	0	0	45	0	0	0	45	5
TMF3087		Kompyuter grafikasiga kirish	Introduction to Computer Graphics	3	0	0	45	0	0	0	45	5
TMF3099		Ekspert tizimlariga kirish	Introduction to Expert Systems	3	0	0	45	0	0	0	45	5
TMF3105		Bioinformatikaga kirish	Introduction to Bioinformatics	3	0	0	45	0	0	0	45	5
TMF3114		Bioinformatika	Bioinformatics	3	0	0	45	0	0	0	45	5
TMF3123		Yurak-qon tomir mexanikasi	Cardiovascular Mechanics	3	0	0	45	0	0	0	45	5
TMF3132		Biomemlar	Biomems	3	0	0	45	0	0	0	45	5
TMF3138		NEKARATNESHGA KIRISH	Introduction to Neural Engineering	3	0	0	45	0	0	0	45	5
TMF3150		Biotibinik muhandislikdagi maxsus mavzular	Special Topics in Biomedical Engineering	3	0	0	45	0	0	0	45	5
TMF3654		Sanoat elektronikasi	Industrial Electronics	3	0	0	45	0	0	0	45	5
TMF3666		Quvvat elektronika	Power Electronics	3	0	0	45	0	0	0	45	5
TMF4100		Yadro tibbiyotiga Inaduction	Introduction to Nuclear Medicine	3	0	0	45	0	0	0	45	5
TMF4164		Telekommunikatsiya aylanmasi	Telecommunication Circuits	3	0	0	45	0	0	0	45	5
TMF4166		Elektron dizaynni avtomatlashtirish	Electronic Design Automation	3	0	0	45	0	0	0	45	5
TMF4170		Sensordlar va transdurturlar	Sensors and Transducers	3	0	0	45	0	0	0	45	5
TMF4172		Sun'iy yo'ldosh aloqasi	Satellite Communication	3	0	0	45	0	0	0	45	5
TMF4176		Hisoblash elektrotatsiyasini	Computational Electromagnetics	3	0	0	45	0	0	0	45	5

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TMF4178		Ma'lumot uzatish	Data Communications	3	0	0	45	0	0	0	45	5
TMF4180		Uyali aloqa tizimlari 1	Cellular Communication Systems 1	3	0	0	45	0	0	0	45	5
TMF4182		Uyali aloqa tizimlari 2	Cellular Communication Systems 2	3	0	0	45	0	0	0	45	5
TMF4184		Quatma maydoni nazariyasi	Quantic Field Theory	3	0	0	45	0	0	0	45	5
TMF4186		Optik tolalarga kirish	Introduction to Optical Fibers	3	0	0	45	0	0	0	45	5
TMF4188		Mikroto'lqinli elektronika	Microwave Electronics	3	0	0	45	0	0	0	45	5
TMF4190		Optoelektronikaga kirish	Introduction to Optoelectronics	3	0	0	45	0	0	0	45	5
TMF4192		Optik aloqa tizimlari	Optical Communications Systems	3	0	0	45	0	0	0	45	5
TMF4194		Analog integral mikrosxemalar	Analog Integrated Circuits	3	0	0	45	0	0	0	45	5
TMF4196		Raqamli elektron slanetekalar	Digital Electronic Circuits	3	0	0	45	0	0	0	45	5
TMF4202		Integratsiyalashgan elektron dizayn	Integrated Circuit Design	3	0	0	45	0	0	0	45	5
TMF4206		Yarimo'tkazgichlar elektronika	SEMICONDUCTOR ELECTRONICS	3	0	0	45	0	0	0	45	5
TMF4208		Tibbiy elektron	Medical Electronics	3	0	0	45	0	0	0	45	5
TMF4212		Dasturiladigan mantiqiy zalni dizayni	Programmable Logic Circuit Design	3	0	0	45	0	0	0	45	5
TMF4216		Aloqa nazariyasi	Communication Theory	3	0	0	45	0	0	0	45	5
TMF4218		Raqamli aloqa tizimlari tamoyillari	Principles Digital Communications Systems	3	0	0	45	0	0	0	45	5
TMF4220		To'lqin yondoshuvi bilan mikroto'lqinli tarmoqlarning modellashirish dizayni, kompyuterga qarshi tahlil qilish	Computer-Aided Analysis, Modelling Design of Microwave Networks by the Wave Approach	3	0	0	45	0	0	0	45	5
TMF4222		Elektron mudofaa tizimlariga kirish	An Introduction to Electronic Defence Systems	3	0	0	45	0	0	0	45	5
TMF4224		Raqamli video uzatish va eshittirish	Digital Video Transmission and Broadcasting	3	0	0	45	0	0	0	45	5

Social Elective

Ijtimoiy Tanlov

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Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					
				Le	A	La	Le	A	La	M	U	K
ARX1110		San'at tarixi va arxitekturaga kirish	Introduction to History of Art and Architecture	3	0	0	45	0	0	0	45	3
ARX2150		Arxeologiya	Archeology	3	0	0	45	0	0	0	45	3
ARX2160		Arxitektura tarixi	History of Architecture	3	0	0	45	0	0	0	45	3
BIZ2090		Biznesda jamoatchilik bilan aloqalar	Public Relations in Business	3	0	0	45	0	0	0	45	3
BIZ2100		Jamoadam ishlash va rivojlanishi	Team Building and Development	3	0	0	45	0	0	0	45	3
BIZ2160		Logistika menejmenti asoslari	Fundamentals of Logistics Management	3	0	0	45	0	0	0	45	3
BIZ2180		To'g'ridan-to'g'ri marketing	Direct Marketing	3	0	0	45	0	0	0	45	3
GEO2160		Geomatik muhandislik fanining tarixi	History of Geomatic Engineering Science	3	0	0	45	0	0	0	45	3
GRA4090		Eksperimental tipografiya	Experimental Typography	3	0	0	45	0	0	0	45	3
GUM1060		Fotosuratning texnikasi	Techniques Of Photography	3	0	0	45	0	0	0	45	3
GUM1070		Grafik media-dizayn vositalari	Graphic Media Design Tools	3	0	0	45	0	0	0	45	3
GUM1080		Polifonik musiqaga kirish	Introduction to Polyphonic Music	3	0	0	45	0	0	0	45	3
GUM2152		Ilmiy tarix	History of Science	3	0	0	45	0	0	0	45	3
GUM2160		Iqtisodiy siyosat va arizalar	Economic Policies and Applications	3	0	0	45	0	0	0	45	3
GUM2164		Ijtimoiy o'zgarishlar bo'yicha ayollar	Women in Social Transformations	3	0	0	45	0	0	0	45	3
GUM2168		Demokratiya madaniyat tamoyillari va institutlari	Democracy Culture Principles and Institutions	3	0	0	45	0	0	0	45	3
GUM2500		Maxsus ta'lim	Special Education	3	0	0	45	0	0	0	45	3
GUM3004		Basketboldagi asosiy texnikalarni o'qitish	Education of Basic Techniques in Basketball	3	0	0	45	0	0	0	45	3
GUM3008		Badmintondagi asosiy texnikalarni o'qitish	Education of Basic Techniques in Badminton	3	0	0	45	0	0	0	45	3
GUM3012		Futbol va asosiy harakatni o'qitish	Soccer and Basic Movement Teaching	3	0	0	45	0	0	0	45	3
GUM3016		Voleyboldagi asosiy texnikalarni o'qitish	Education of Basic Techniques in Volleyball	3	0	0	45	0	0	0	45	3



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GUM3020		Qo'l to'pi bo'yicha asosiy texnikalarni o'rgatish	Education of Basic Techniques in Handball	3	0	0	45	0	0	0	45	3
GUM3196		Semiologiya	Sociology	3	0	0	45	0	0	0	45	3
GUM3200		Falsafaga kirish	Introduction to Philosophy	3	0	0	45	0	0	0	45	3
GUM3204		Yigirmanchi asrdagi siyosiy ishlanmalar va ijtimoiy harakatlar	Political Developments and Social Movements in the Twentieth Century	3	0	0	45	0	0	0	45	3
GUM3208		Siyosiy mafkuralar: nazariya va tarix	Political Ideologies: Theory and History	3	0	0	45	0	0	0	45	3
GUM3212		Tarix va kino	History and Cinema	3	0	0	45	0	0	0	45	3
GUM3216		Zamonaviy jamiyatda aloqa	Communication in Contemporary Society	3	0	0	45	0	0	0	45	3
GUM3220		Zamonaviylik va iste'molchilar jamiyati	Modernity and Consumer Society	3	0	0	45	0	0	0	45	3
GUM3224		Psixologiyaga kirish	Introduction to Psychology	3	0	0	45	0	0	0	45	3
GUM3228		Madaniy tadqiqotlar va o'ziga xoslik	Cultural Studies and Identity	3	0	0	45	0	0	0	45	3
GUM3236		Jinoyatchilik va jazo: kriminologik nuqtai nazar	Crime and Punishment: Criminological Perspective	3	0	0	45	0	0	0	45	3
GUM3240		Iqtisodiy jinoyatlar	Economic Crimes	3	0	0	45	0	0	0	45	3
GUM3244		Atrof muhit va ekologiya	Environment and Ecology	3	0	0	45	0	0	0	45	3
GUM3248		San'at tarixi	History of Art	3	0	0	45	0	0	0	45	3
GUM3252		Madaniyatlar tarixi	History of Civilizations	3	0	0	45	0	0	0	45	3
GUM3260		Inson huquqlari	Human Rights	3	0	0	45	0	0	0	45	3
GUM3264		Siyosiy falsafa	Political Philosophy	3	0	0	45	0	0	0	45	3
GUM3268		Ta'lim falsafasi	Philosophy of Education	3	0	0	45	0	0	0	45	3
GUM3276		Yozish texnologiyasi	Technics Of Writing	3	0	0	45	0	0	0	45	3
GUM4010		Tennis texnik va taktik ta'lim	Tennis Technic and Tactic Education	3	0	0	45	0	0	0	45	3
GUM4020		Asosiy suzish texnikasini o'rgatish	Education of Fundamental Swimming Techniques	3	0	0	45	0	0	0	45	3
GUM4175		Ijtimoiy tuzilmalar va tarixiy o'zgarishlar	Social Structures and Historical Transformations	3	0	0	45	0	0	0	45	3
GUM4180		Arxitektura tarixi	History of Architecture	3	0	0	45	0	0	0	45	3
KIM2020		Fan tarixi	History of Science	3	0	0	45	0	0	0	45	3



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KRM2090		Yo'l harakati xavfsizligi	Traffic Safety	3	0	0	45	0	0	0	45	3
KTA1110		Ijtimoiy antropologiya	Social anthropology	3	0	0	45	0	0	0	45	3
KTA2104		Kadrlar boshqarmasi	Human Resources Management	3	0	0	45	0	0	0	45	3
KTA2692		O'zbekiston geografiyasi va geosiyosat	Geography and geopolitics of Uzbekistan	3	0	0	45	0	0	0	45	3
KTA4090		Ta'limni boshqarish	Education management	3	0	0	45	0	0	0	45	3
MEH1010		Mehnat qonuni	Labor Law	3	0	0	45	0	0	0	45	3
MEH1020		Kasbiy salomatlik va xavfsizlik to'g'risidagi qonun	Occupational Health and Safety Law	3	0	0	45	0	0	0	45	3
MEM4130		Kulolchilik	Ceramics	3	0	0	45	0	0	0	45	3
OZD2210		O'zbek tilini o'qitish bo'yicha adabiy matnlar	Uzbek Language Teaching Literary Texts	3	0	0	45	0	0	0	45	3
OZD2230		O'zbek tili tarixi	Uzbek Language History	3	0	0	45	0	0	0	45	3
OZD2240		Amaliy san'at	The Art of Applied	3	0	0	45	0	0	0	45	3
OZD4010		Samarali aloqa va taqdimot ko'nikmalari	Effective Communication and Presentation Skills	3	0	0	45	0	0	0	45	3
OZD4020		Nutq uslubi va noxotsizlik	Speech Techniques and Elocution	3	0	0	45	0	0	0	45	3
OZD4030		Odatli va dik	Oratory and Diction	3	0	0	45	0	0	0	45	3
OZD4040		O'zbek hikoyasi va roman	Uzbek Story and Novel	3	0	0	45	0	0	0	45	3
OZD4050		Akademik o'zbek	Academic Uzbek	3	0	0	45	0	0	0	45	3
SAN2100		Madaniyat menejmenti va uning agentlari 2	Cultural management and its Agents 2	3	0	0	45	0	0	0	45	3
SAN3040		Ijtimoiy munosabatlar	Public Relations	3	0	0	45	0	0	0	45	3
TMF4382		Inotatsiya va tadbirkorlik	Innovation and Entrepreneurship	3	0	0	45	0	0	0	45	3
URB2040		Shahar iqtisodiyoti	Urban Economics	3	0	0	45	0	0	0	45	3
URB2090		Shahar sotish	Urban Sociology	3	0	0	45	0	0	0	45	3
ZAD4010		Nemis tilidagi ko'nikmalarga kirish	Introduction to German Language Skills	3	0	0	45	0	0	0	45	3
ZAD4020		Nemis tili ko'nikmalari	German Language Skills	3	0	0	45	0	0	0	45	3
ZAD4030		Ilg'or nemis	Advanced German	3	0	0	45	0	0	0	45	3
ZAD4040		Nemis tilida o'qish va o'qish	Reading & Speaking in German	3	0	0	45	0	0	0	45	3
ZAD4050		Biznes nemis	Business German	3	0	0	45	0	0	0	45	3



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Occupational Elective - 4
Kasbiy Tanlov - 4

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					
				Le	A	La	Le	A	La	M	U	K
ELM4300		Quvvat sifatidagi laboratoriya	Power Quality Laboratory	0	0	2	0	0	30	0	30	2
ELM4310		Yuqori hozirgi laboratoriya	High Current Laboratory	0	0	2	0	0	30	0	30	2
ELM4320		Qayta tiklanadigan energiya tizimlari laboratoriyasi	Renewable Energy Systems Laboratory	0	0	2	0	0	30	0	30	2
ELM4330		Elektr energiyasini boshqarish laboratoriyasi	Electrical Power System Laboratory	0	0	2	0	0	30	0	30	2
ELM4340		Aqlli panjara laboratoriyasi	Smart Grid Laboratory	0	0	2	0	0	30	0	30	2
ELM4300		Quvvat sifatidagi laboratoriya	Power Quality Laboratory	0	0	2	0	0	30	0	30	2



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Uzbek Language

O'zbek Tili

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
OZD1010		O'zbek tili 1	Uzbek Language 1	2	0	0	30	0	0	0	30	2
OZD1020		O'zbek tili 2	Uzbek Language 2	2	0	0	30	0	0	0	30	2
OZD1250		Kasbiy nutq madaniyati 1	Professional Speech Culture 1	2	0	0	30	0	0	0	30	2
OZD2210		O'zbek tilini o'qitish bo'yicha adabiy matnlar	Uzbek Language Teaching Literary Texts	2	0	0	30	0	0	0	30	2
OZD2230		O'zbek tili tarixi	Uzbek Language History	2	0	0	30	0	0	0	30	2
OZD4010		Samarali aloqa va taqdimot ko'nikmalari	Effective Communication and Presentation Skills	2	0	0	30	0	0	0	30	2
OZD4020		Nutq uslubi va noxotsizlik	Speech Techniques and Elocution	2	0	0	30	0	0	0	30	2
OZD4030		Odatli va dik	Oratory and Diction	2	0	0	30	0	0	0	30	2
OZD4040		O'zbek hikoyasi va roman	Uzbek Story and Novel	2	0	0	30	0	0	0	30	2
OZD4050		Akademik o'zbek	Academic Uzbek	2	0	0	30	0	0	0	30	2

Religious Studies

Dinshunoslik

Code Kod	Prerequisite Old Shart	Fan	Course	per week Haftalik			for 15 Weeks 15-Haftalik					K
				Le	A	La	Le	A	La	M	U	
KTA2112		Ta'lim antropologiyasi	Anthropology of Education	4	0	0	60	0	0	0	60	4
KTA2116		Ta'lim bo'yicha drama	Drama in Education	4	0	0	60	0	0	0	60	4
KTA2120		Ta'limda o'quv dasturlarini ishlab chiqish	Curriculum Development in Education	4	0	0	60	0	0	0	60	4
KTA2124		Xarakter va qadriyatlar	Character and Values Education	4	0	0	60	0	0	0	60	4
KTA2128		Qiyosiy ta'lim	Comparative Education	4	0	0	60	0	0	0	60	4
KTA2132		Muzey ta'limi	Museum Education	4	0	0	60	0	0	0	60	4
KTA2136		Maktabdan tashqari o'qitish muhiti	Out-of-School Learning Environments	4	0	0	60	0	0	0	60	4
KTA2152		Kasalxonaga yotqizilgan bolalarni o'qitish	Education of Hospitalized Children	4	0	0	60	0	0	0	60	4



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Faculty of Electrical and Mechanical
Engineering

Electrical Engineering

Bachelor Degree
Bakalavr

Elektr va mexanika muhandisligi
fakulteti

Elektr Muhandisligi

Full-Time Education – 4 years
Kunduzgi Ta'lim – 4 yil

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Ta'lim yo'nalishi

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KTA2156		Mikro darslik	Micro Teaching	4	0	0	60	0	0	0	60	4
KTA2160		O'qish murakkabligi	Learning Difficulty	4	0	0	60	0	0	0	60	4
KTA2164		Ta'lim berish va o'qitishni moslashtirish	Individualization and Adaptation of Teaching	4	0	0	60	0	0	0	60	4
KTA2168		Ta'lim bo'yicha loyihani tayyorlash	Preparing Project in Education	4	0	0	60	0	0	0	60	4
KTA2172		Diqqatni kamaytirishi va giperaktivlik buzilishi	Attention Deficit and Hyperactivity Disorder	4	0	0	60	0	0	0	60	4
KTA2176		Ta'lim to'g'risidagi qonun	Education Law	4	0	0	60	0	0	0	60	4
KTA2180		Ta'limda darsdan tashqari mashg'ulotlar	Extracurricular Activities in Education	4	0	0	60	0	0	0	60	4
KTA2188		Inklyuziv ta'lim	Inclusive Education	4	0	0	60	0	0	0	60	4
KTA2192		Voyaga etganlar ta'limi va umr bo'yi o'rganish	Adult Education and Lifelong Learning	4	0	0	60	0	0	0	60	4

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ma'rifiy ishlar bo'yicha birinchi
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