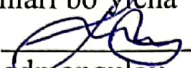


**O‘ZBEKISTON RESPUBLIKASI**  
**OLIY TA’LIM, FAN VA INNOVATSIYALAR VAZIRLIGI**  
**SAMARQAND DAVLAT ARHITEKTURA – QURILISH UNIVERSITETI**

“KELISHILGAN”  
o‘quv ishlari bo‘yicha  
prorektor   
M.T. Shodmonqulov  
Ro‘yxatga olindi: № 146/a  
« 30 » avgust 2024 yil



**TEXNIK RASM VA DIZAYN**

**FAN DASTURI**

**Bilim sohasi:** 700000 – Muhandislik, ishlov berish va qurilish

**Ta’lim sohasi:** 710 000 – Muhandislik ishi

**Ta’lim yo‘nalishi:** 60712300 -Mexanika muhandisligi

**Samarqand – 2024**

**Kurs ma'lumotlari**  
Course Information Form

<b>Modul kodi</b> Code MAS1020	<b>O'quv yili</b> 2024-2025	<b>Semestr</b> 2	<b>ECTS – Kreditlar</b> 2-semestr -3		
<b>Modul turi</b> Majburiy	<b>Ta'lim tili</b> O'zbek/rus		<b>Auditoriya soatlari</b>		<b>Mustaqil ta'lim</b> (soat/hafta) Independent Education (hour/week)
<b>Fan nomi</b> Title	<b>Jami yuklama</b>	Ma'ruza (soat/hafta) Lecture (hour/week)	Amaliy (soat/hafta) Practical (hour/week)	Laboratoriya (soat/hafta) Laboratory (hour/week)	
<b>Texnik rasm va dizayn</b>	2-semestr -90	2-semestr -2	2-semestr -2		2-semestr -2

<b>Dastlabki shart</b> Prerequisite	<b>Yo'q</b> None
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<b>Semestr</b> Semestr	<b>Bahorgi</b> Spring
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<b>Kurs tili</b> Course language	<b>O'zbek, Ingliz, Rus</b> Uzbek, English, Russian
<b>O'quv kursi</b> Level of Course	<b>Birinchi kurs</b> First Cycle
<b>Ta'lim yo'nalishlari</b> Course type	60713500 -Mexanika muhandisligi
<b>Kurs toifasi</b> Course Category	Asosiy Core Courses
<b>Dars shakli</b> Mode of Delivery	An'anaviy (Yuzma – yuz muloqot) Face – to – face

<b>Ma'sul kafedra</b> Owner academic unit	Arxitektura Department of architecture
<b>Kursga ma'sul</b> Course Coordinator	Suvonov Obidjon
<b>O'qituvchilar</b> Instructor(s)	Kulnazarov Baxram, Abdumononov Maxsud, Saparov Hazratkul, Suvonov Obidjon, Xujamov Ziyovuddin, Vohidov Abror, Maxmudova Saboxat.
<b>Yordamchilar</b> Assistant(s)	Masaridinova Nilufar

<b>Fanni o'qitishdan maqsad</b> Course objectives	<p>Mashina va detallarning texnik chizmalarini tayyorlash malakasini egallash. Loyihalashtirilgan ob'ektlarni vizual tarzda taqdim etish qobiliyatiga ega bo'lish. Yig'ish chizmalarini chizishni o'rganish. Mashina elementlarining standartlarini o'rganish.</p> <p>To gain the ability to prepare technical drawings of machinery and parts. To gain the ability to visually present the designed objects. Learn to draw assembly drawings. To learn the standards of machine elements.</p>
<b>Fanning mazmuni</b> Course content	Sirt sifati va ishlov berish belgilari / o'lchov bardoshliklari, shakl-pozitsiya toleranslari / ishlab chiqarish chizmalari / yig'ish chizmalari / vintli ulanishlar / asosiy mashina elementlari (muvatlar, gaykalar, rondelalar) / asosiy mashina elementlari (xanjarlar, xanjar



	vallar, kasnaklar) / mashinaning asosiy elementlari ( perno, pin, ring, cupile) / tekis va rulmanlar / prujinalar, perchinlar, payvandlangan bo'g'inlar / tishli g'ildiraklar Surface Quality and Machining Marks / Dimension Tolerances, Shape-position Tolerances / Manufacturing Drawings / Assembly drawings / Screw Connections / Basic Machine Elements (bolts, nuts, washers) / Basic Machine Elements (wedges, wedge shafts, pulleys) / Basic Machine Elements (perno, pin, ring, cupile) / Plain and Roll Bearings / Springs, Rivets, welded joints / Gear Wheels
<b>Tavsiya qilingan yoki talab qilinadigan adabiyotlar ro'yxati</b> Recommended Or Required Reading	<b>Asosiy adabiyotlar</b> 1. Türkdemir K., "Technical Drawing II" 2. Shopper, M., "Technical Drawing II", 3. .B. Qulnazarov. Chizma geometriya, Toshkent; "O'zbekiston" – 2006y. 4. M. Abdumonnonov. Chizma geometriya kursi, Samarqand – 2021. y. 5. M. Abdumonnonov. Qurilish chizmachiligi, Samarqand – 2022. y. 6. B. Voxidov. Chizma geometriya kursi, Samarqand – 2010. y. 7. Yu. Qirg'izboyev va boshqalar. Mashinasozlik chizmachiligi kursi. 1974 8. B. Qulnazarov, Chizmachilik asoslari, To'ldirilgan 3-nashr, Samarqand 2018y. <b>Qo'shimcha adabiyotlar</b> 1. Ali Düzgün, Mimari Tasarıma Temel Tasarı Geometri, 1988
<b>Tavsiya etilgan qo'shimcha dastur komponentlari</b> Recommended Optional Program Components	Yo'q\ (bor bo'lsa yoziladi)  None

## Kursni o'rganish natijalari

### Course learning outcomes

1	Mashina qismlarining texnik chizmalarini tayyorlash ko'nikmasiga ega bo'lish. Gain the ability to prepare technical drawings of machine parts.
2	Loyihalashtirilgan ob'ektlarni vizual tarzda taqdim etish qobiliyatiga ega bo'lish. To gain the ability to visually present the designed objects.
3	Mashina elementlarini chizish qobiliyatiga ega bo'ling. Gain the ability to draw machine elements.
4	Mavjud chizmalarni o'qish qobiliyatiga ega bo'ling. Gain the ability to read existing drawings.
5	SAPR dasturlarini ishlatish qobiliyatiga ega bo'lish To gain the ability to use CAD programs

## Haftalik mavzular va tegishli tayyorgarlik ishlari

### Weekly Subjects and Related Preparation Studies

Hafta Week	Mavzular Themes	Resurslar Related preparation
1.	Sirt sifati va ishlov berish belgilari. Davlat standartlari.	Adabiyot 1
2.	O'lcham qo'yish qoidalari.	Adabiyot 2
3.	Vint chiziqlar va vint sirtlar.	Adabiyot 3
4.	Rezbalar. Rezba profile. Rezba kirimi. Rezba qadami. Rezba yo'li haqida ma'lumotlar.	Adabiyot 3.4
5.	Birikmalar. Ajraladigan va ajralmaydigan birikmalar.	Adabiyot 5

6.	Mashinaning asosiy elementlari (bolt, gayka va shayba)	Adabiyot 4
7.	Mashinaning asosiy elementlari (pona, ponali val va shkiv)	Adabiyot 4.5
8.	Tishli uzatmalar va ularning turlari.	Adabiyot 5
9.	Mashina detallarining chizmalari.	Adabiyot 4
10.	Sirpanish va tebranish podshipniklar.	Adabiyot 6
11.	Prujinali, parchinli birikmalar payvandlangan birikmalar.	Adabiyot 6
12.	O'lchash asboblari va o'lchash usullari.	Adabiyot 5.7
13.	Detallarning ish chizmalarini yig'ish.	Adabiyot 7
14.	Yig'ish chizmalarini tuzish va o'qish.	Adabiyot 8
15.	Yig'iluvchi birikmalarining qo'llanilishiga doir misollar	Adabiyot 8

## Baholash jarayoni

Evaluation System

Mashg'ulot turi Activities	Soni Number	Baholash Percentage of Grade
Darsga qatnashish Attendance / participation	15	20
Laboratoriya ishi Laboratory		
Amaliy ish (qo'shimcha vazifa) Application		
Kurs ishi Field work		
Maxsus kurs amalyoti (ish joyida) Special course internship (work placement)		
Testlar Quizzes / studio critics		
Uyga vazifani baholash Homework assignments		
Ijodiy ish (taqdimot) Presentations / jury		
Loyiha ishi Project		
Seminar Seminar / workshop		
Oraliq nazorat Mid -Terms	2	30
Yakuniy nazorat Final	1	50
O'zlashtirish ko'rsatgichi Percentage of in – term studies		50
Yakuniy imtihon bahosi Percentage of final examination		50
Jami Total		100

## ECTS taqsimoti

ECTS workload table

Topshiriqlar Activities	Soni Number	Davomiyligi (soat) Duration (hour)	Umumiy yuklama Total workload
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<b>Mashg'ulot soati</b> Course hours	15	4	60
<b>Laboratoriya ishi</b> Laboratory			
<b>Amaliy ish (qo'shimcha vazifa)</b> application			
<b>Kurs ishi</b> Field work			
<b>Mustaqil ta'lim (maslahat)</b> Study hours out of class	1	30	30
<b>Maxsus kurs amalyoti (ish joyida)</b> Special course internship (work placement)			
<b>Uyga vazifani baholash</b> Homework assignments			
<b>Testlar / Viktorina</b> Quizzes / studio critics			
<b>Loyiha ishi</b> Project			
<b>Ijodiy ish (taqdimot)</b> Presentations / seminar			
<b>Oraliq nazorat</b> Mid – terms (Examination +Examination prep. Duration)			
<b>Yakuniy nazorat (nazorat va nazoratga tayyorlanish soati)</b> Final (examination +examination prep.Duration)			
		<b>Jami yuklama</b> Total workload	90
		<b>Jami yuklama / 30 (soat)</b> Total workload / 30(h)	90/30=3
		<b>Kredit</b> ECTS credit	3

<b>Qo'shimcha eslatmalar</b> Extra Notes	Yo'q\ (bor bolsa yoziladi) None
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Fan dasturi Mirozo Ulug'bek nomidagi Samarqand davlat Arxitektura-qurilish universiteti kengashning 2024 yil 30 -avgustdagi 01 -sonli bayonnomasi bilan ma'qullangan.

**Kafedra mudiri:**



L. A. Raximov

**Tuzuvchilar:**



Z. S. Xo'jamov



N. A. Masaridinova