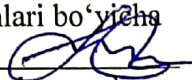


O‘ZBEKISTON RESPUBLIKASI
OLIY TA’LIM, FAN VA INNOVATSIYALAR VAZIRLIGI
SAMARQAND DAVLAT ARHITEKTURA – QURILISH UNIVERSITETI

“KELISHILGAN”
o‘quv ishlari bo‘yicha
prorektor 
M.T. Shodmonqulov
Ro‘yxatga olindi: № 151/a
«30» avgust 2024 yil



TEXNIK RASMLAR VA DIZAYN GEOMETRIYASI
FAN DASTURI

Bilim sohasi: 700 000 – Muhandislik, ishlov berish va qurilish sohalari
Ta’lim sohasi: 710 000 – Muhandislik ishi
Ta’lim yo‘nalishi: 60711800-Atrof-muhit muhandisligi

Samarqand – 2024

Kurs ma'lumotlari
Course Information Form

Modul kodi Code ATM1060	O'quv yili 2024-2025	Semestr 2	ECTS – Kreditlar 2-semestr -5		
Modul turi Majburiy	Ta'lim tili O'zbek/rus		Auditoriya soatlari		Mustaqil ta'lim (soat/hafta) Independent Education (hour/week)
Fan nomi Title	Jami yuklama	Ma'ruza (soat/hafta) Lecture (hour/week)	Amaliy (soat/hafta) Practical (hour/week)	Laboratoriya (soat/hafta) Laboratory (hour/week)	
Texnik rasmlar va dizayn geometriyasi	2-semestr -150	2-semestr -2	2-semestr -2		2-semestr -6

Dastlabki shart Prerequisite	Yo'q None
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Semestr Semestr	Bahorgi Spring
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Kurs tili Course language	O'zbek, Ingliz, Rus Uzbek, English, Russian
O'quv kursi Level of Course	Birinchi kurs First Cycle
Ta'lim yo'nalishlari Course type	60711800-Atrof-muhit muhandisligi
Kurs toifasi Course Category	Asosiy Core Courses
Dars shakli Mode of Delivery	An'anaviy (Yuzma – yuz muloqot) Face – to – face

Ma'sul kafedra Owner academic unit	Arxitektura Department of architectura
Kursga ma'sul Cours Coordinator	Suvonov Obidjon
O'qituvchilar Instructor(s)	Saparov Hazratkul, Suvonov Obidjon, Xujamov Ziyovuddin, Vohidov Abror, Maxmudova Saboxat.
Yordamchilar Asistant(s)	Masaridinova Nilufar

Fanni o'qitishdan maqsad Course objectives	<p>Atrof-muhit muhandisligi talabalariga texnik chizmalarning asosiy tamoyillarini o'rganish, o'z loyihalarini loyihalashda kerakli chizmalarni tuzish va bunday tayyorlangan loyihalardagi chizmalarni tekshirish imkonini berish.</p> <p>To enable Environmental Engineering students to learn the basic principles of technical drawing, to make the necessary drawings in the design of their projects and to examine the drawings in such prepared projects.</p>
Fanning mazmuni Course content	Atrof-muhit muhandisligida texnik chizma va dizayn geometriyasining ma'nosi; Texnik chizma uskunalari; Proyeksiya tushunchasi, proyeksiya turlari va chizish qoidalari; Nuqta, chiziq va rejani proyeksiyalashdagi ilovalar; Chiziq turlari va chiziq qalinligi;

	<p>Ko'pburchak chizish qoidalari va umumiy usul usuli bilan ilovalar; Ko'pburchak chizish qoidalari va maxsus usul usuli bilan ilovalar; Masshtab tushunchasi va o'lchovni o'lchashning muhandislikdagi ahamiyati; Reja va uchastka tushunchalarining muhandislikdagi ahamiyati; Texnik chizma, reja, chizma va kesma ko'rinishlarni o'lchashda qo'llaniladigan muhandislik belgilari va chizmachilik qoidalari; Sinfda kompyuter yordamida chizish va loyihalash ilovalari (AutoCAD dasturi).</p> <p>The Meaning of Technical Drawing and Design Geometry in Environmental Engineering; Technical Drawing Equipment; Projection Concept, Projection Types and Drawing Rules; Applications in the Projection of Point, Line and Plan; Line types and Line Thicknesses; Polygon Drawing Rules and Applications with General Method Method; Polygon Drawing Rules and Applications with Special Method Method; The Concept of Scale and the Importance of Dimensioning in Engineering; The Importance of Plan and Section Concepts in Engineering; Engineering Symbols and Sketching Rules Used in Technical Drawing, Plan, Drawing and Dimensioning of Sectional Views; In-Class Computer Aided Drawing and Projecting Applications (AutoCAD Program)</p>
<p>Tavsiya qilingan yoki talab qilinadigan adabiyotlar ro'yxati Recommended Or Required Reading</p>	<p>Asosiy adabiyotlar</p> <ol style="list-style-type: none"> 1. Sh.Murodov, L.Xakimov, A.Xolmurzayev, M.Jumayev, A.To'xtayev. Chizma geometriya, Iqtisod-moliya, 2006 2. E. G. Pare, R. O. Loving, I. L. Hill, R.C.Pare. Descriptive geometry. Prentice Hall Upper Saddle River, New Jersey, 1997 3. B. Voxidov. Chizma geometriya kursi, Samarqand – 2010. y 4. B. Qulnazarov. Chizma geometriya, Toshkent; "O'zbekiston" – 2006. y M. 5. M. Abdumonnonov. Qurilish chizmachiligi, Samarqand – 2022. y. 6. Saydaliyev S.S. Kompyuterda loyihalash. Fan va texnologiyalar. 2019 y. 7. O.Suvonov. Kompyuterda loyihalash. Fan bulog'i. 2023 y. 8. Abdumonnonov. Chizma geometriya kursi, Samarqand – 2021. y. <p>Qo'shimcha adabiyotlar</p> <ol style="list-style-type: none"> 1. In'shaat Mühendisliği ve Mimarlar için Teknik Resim Kitapları 2. Ching F.D.R., Design Drawing, John Wiley & Sons, 1997.
<p>Tavsiya etilgan qo'shimcha dastur komponentlari Recommended Optional Program Components</p>	<p>Yo'q (bor bo'lsa yoziladi)</p> <p>None</p>

Kursni o'rganish natijalari

Course learning outcomes

1	<p>Atrof-muhit muhandisligi bo'yicha loyihalarni qanday o'qishni va dizaynlarni chizish orqali tushuntira olishni o'rgatadi.</p> <p>Teaches how to read projects in Environmental Engineering and to be able to explain designs through drawing</p>
2	<p>Bu atrof-muhit muhandisligi talabalariga loyiha chizish texnikasini egallash imkonini beradi.</p> <p>It enables Environmental Engineering students to acquire project drawing techniques.</p>
3	<p>Masshtab tushunchasi tufayli chizilgan birliklarni muhandislik va mantiqiy jihatlardan tekshirish va talqin qilishni o'rgatadi.</p> <p>Thanks to the concept of scale, it teaches the examination and interpretation of the units drawn in terms of engineering and logical aspects.</p>
4	<p>Bu perspektivani chizish qobiliyatini beradi.</p> <p>It provides the ability to draw perspectives.</p>
5	<p>Semestr davomida amalga oshirilgan sinf ichidagi kompyuter ilovalari (AutoCAD dasturi) tufayli loyiha chizish texnikasi bo'yicha turli xil istiqbollarni taqdim etadi.</p>

Thanks to the in-class computer applications (AutoCAD program) carried out during the semester, the project provides different perspectives on drawing techniques.

Haftalik mavzular va tegishli tayyorgarlik ishlari

Weekly Subjects and Related Preparation Studies

Hafta Week	Mavzular Themes	Resurslar Related preparation
1.	Texnik chizma, masshtablar, yozuv va chiziqning turlari va ahamiyati	Adabiyot 1
2.	O'lcham qo'yish qoidalari, Geometrik shakllar chizmalarini yasash	Adabiyot 1.3.2
3.	Proeksiyalash usullari: Markaziy va parallel proeksiyalash	Adabiyot 4
4.	Ortogonal proyeksiyalar, nuqta, to'g'ri chiziq va tekislikning proeksiyalari	Adabiyot 5..4
5.	Geometrik jism(piramida, prizma, konus, silindr va shar)larning proyeksiyalari	Adabiyot 7.
6.	Binoning rejasi, Binoning elementlari(Davlat standartlari)	Adabiyot 1
7.	Binoning fasadi va qirqimi	Adabiyot 3
8.	Binoning konstruktiv elementlari	Adabiyot 2.3
9.	Perspektiva apparati, Perspektiva yasash usullari	Adabiyot 4.
10.	Bino perspektivasini qurish	Adabiyot 5.
11.	Bino perspektivasida soya bajarish	Adabiyot 8
12.	AutoCAD asosiy buyruqlari	Adabiyot 6
13.	AutoCAD da perspektiva va o'lchamlar	Adabiyot 6
14.	AutoCAD bino chizmalari	Adabiyot 6
15.	AutoCAD yangi fayllar yaratish va chop qilish	Adabiyot 6

Baholash jarayoni

Evaluation System

Mashg'ulot turi Activities	Soni Number	Baholash Percentage of Grade
Darsga qatnashish Attendance / participation	15	30
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	20
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
Mashg'ulot soati Course hours	15	4	60
Laboratoriya ishi Laboratory			
Amaliy ish (qo'shimcha vazifa) application			
Kurs ishi Field work			
Mustaqil ta'lim (maslahat) Study hours out of class	1	90	90
Maxsus kurs amalyoti (ish joyida) Special course internship (work placement)			
Uyga vazifani baholash Homework assignments			
Testlar / Viktorina Quizzes / studio critics			
Loyiha ishi Project			
Ijodiy ish (taqdimot) Presentations / seminar			
Oraliq nazorat Mid – terms (Examination +Examination prep. Duration)			
Yakuniy nazorat (nazorat va nazoratga tayyorlanish soati) Final (examination +examination prep.Duration)			
		Jami yuklama Total workload	150
		Jami yuklama / 30 (soat) Total workload / 30(h)	150/30=5
		Kredit ECTS credit	5

Qo'shimcha eslatmalar 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:



A. B. Voxidov



N. A. Masaridinova