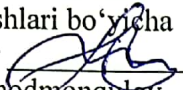


O‘ZBEKISTON RESPUBLIKASI
OLIY TA’LIM, FAN VA INNOVATSIYALAR VAZIRLIGI
SAMARQAND DAVLAT ARXITEKTURA – QURILISH UNIVERSITETI

“KELISHILGAN”
o‘quv ishlari bo‘yicha
prorektor 
M.T. Shodmonqulov
Ro‘yxatga olindi: № 121/9
«30» avgust 2024 yil



YASHIL ARXITEKTURA VA ENERGIYA TEJAMKORLIK
FAN DASTURI

Bilim sohasi: 700 000 - Muhandislik, ishlov berish va qurilish sohalari
Ta’lim sohasi: 730 000 - Arxitektura va qurilish
Ta’lim yo‘nalishi: 60730100-Arxitektura (turlari bo‘yicha)

Samarqand – 2024

Kurs ma'lumotlari
Course Information Form

Modul kodi Code YAVET1130	O'quv yili 2024-2025	Semestr 7	ECTS – Kreditlar 7-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)	
Yashil arxitektura va energiya tejamkorlik	7-semestr -150	7-semestr -2	7-semestr -2	-	7-semestr -4

Dastlabki shart Prerequisite	Yo'q None
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Semestr Semestr	Kuzgi Fall
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Kurs tili Course language	O'zbek, Ingliz, Rus Uzbek, English, Russian
O'quv kursi Level of Course	To'rtinchi kurs Fourth course
Ta'lim yo'nalishlari Course type	60730100 – Arxitektura (turlari bo'yicha)
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	Arxitekturakafedrası Department of architectura
Kursga ma'sul Cours Coordinator	L.A.Raximov
O'qituvchilar Instructor(s)	Uralov A.S, Balgayev A.B, Aymatov A, Abduraimov Sh, Xudoyberdiyev K.S
Yordamchilar Asistant(s)	-

Fanni o'qitishdan maqsad Course objectives	<p>Talabalarini zamonaviy arxitekturaning yangi yo'nalishi bo'lgan yashil arxitektura va energiya tejamkor sohasi bilan tanishtirish va loyihalarni ishlab chiqish uslubiyati bilan tanishtirish uchun:</p> <ul style="list-style-type: none"> - ilmiy izlanislarning umumiy turlari va usullariga o'rgatish, -eksperimental tushunchalar bilan tanishtirish. <p>To introduce students to green architecture and energy-efficient field, which is a new direction of modern architecture, and to familiarize them with project development methodology:</p> <ul style="list-style-type: none"> - teaching general types and methods of scientific research, - introducing experimental concepts
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<p>Fanning mazmuni Course content</p>	<p>Talabalar loyihani bajarishda ijodiy izlanishga, fantaziya qilishga o'rgatiladi. Kurs loyihada talabalarning ijodiy g'oyalarini loyihada ifoda qilishga, yangi kurilish me'yorlari va talablarini foydalanishga urgatiladi.</p> <ul style="list-style-type: none"> - uy – joy muammolarini hal etish, yashash fondini yangilash, shahar turar-joy muhitini tubdan yaxshilash; - aholiga xizmat ko'rsatish korxonasi va muassalar nomenklaturasini kengaytirish, ma'muriy, savdo va boshqa sosial funksiyalarni bajaruvchi jamoa binolarini regeneratsiya qilish; - aholi va jamiyatning o'sib borayotgan talabini qondirishda zamonaviy xizmat ko'rsatish markazlarini barpo etish. <p>Students are taught to be creative and fantasize while completing the project. In the course project, students are encouraged to express their creative ideas in the project, to use new standards and requirements of construction.</p> <ul style="list-style-type: none"> - solving housing problems, renewing the living stock, fundamentally improving the urban residential environment; - expansion of the nomenclature of public service enterprises and institutions, regeneration of community buildings performing administrative, commercial and other social functions; - establishment of modern service centers to meet the growing demand of the population and society.
<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. Ubaydullayev X.M. , Xidoyatov T.A. , Abduraxmonov Y.I., Korobovseva G.I., Mansurov Ya.M. "Arxitekturaviy loyihalash". Toshkent, TAQI, 2012 y. O'quv qo'llanma. 2. Inogomov B.I. "Zamonaviy bino va inshootlarni loyihalash". Toshkent, TAQI, 2012 y. O'quv qo'llanma. 3. Гелфонд А.Л. "Архитектурное проектирование общественных зданий и сооружений". Учебное пособие. М.СИ, 2010 г . 4. Ching F.D.K. "Architecture: Space, Form and Order"/ New York: John Wiley&Sons.2009, -284p.
<p>Tavsiya etilgan qo'shimcha dastur komponentlari Recommended Optional Program Components</p>	<p>Yo'q\ (bor bo'lsa yoziladi)</p> <p>None</p>

<p>Kursni o'rganish natijalari Course learning outcomes</p>	
<p>1</p>	<p>Binoni shahar munosabatlari va shahar miqyosi kontekstida ko'rib chiqish orqali dizayn ko'nikmalarini rivojlantirish, ko'p qatlamli funksiyalardan kelib chiqqan dizayn muammolari uchun dizayn yechimlarini ishlab chiqarish qobiliyatiga ega bo'lish.</p> <p>To develop design skills by considering the building in the context of urban relations and urban scale, to be able to produce design solutions for design problems arising from multi-layered functions.</p>

2	<p>Shaharning o'zgaruvchan tuzilmasida yangi funksiyalarga ega bo'lish, mavjud tuzilmalarni tozalash va shahar maydonlarini tartibga solish, ochiq maydonlar va barqarorlikni muhokama qilish uchun ko'nikmalarga ega bo'lish.</p> <p>Acquiring new functions in the changing structure of the city, clearing existing structures and organizing urban spaces, acquiring skills to discuss open spaces and sustainability.</p>
3	<p>Fikrni ifodalashda mavhum yondashuvlardan va konstruktiv g'oyalarga aylanadigan joydan boshlab jarayonni boshdan kechirish, qurilgan muhitga tanqidiy qarash qobiliyatiga ega bo'lish.</p> <p>Having the ability to critically look at the built environment, experiencing the process from abstract approaches to expressing ideas and turning into constructive ideas.</p>

Haftalik mavzular va tegishli tayyorgarlik ishlari

Weekly Subjects and Related Preparation Studies

Hafta Week	Mavzular (M)-ma`ruza, (A)-amaliy Themes	Resurslar Related preparation
1.	<p>M. Fanga kirish. Yashil arxitektura va energiya tejamkorlik, Turarjoy tumanini loyihalash fanining predmeti va vazifalari.</p> <p>A. Kirish: Sayt maketini ishlab chiqish - 1/500</p>	Adabiyot 1,2
2.	<p>M. Energiya tejamkorlik va turarjoy tumanini loyihalash hamda yashil arxitektura turlari va funktsional vazifalarini nazariy tushunchalar.</p> <p>A. 3D raqamli, Kompyuter modelini yaratish. Chizma rejasi, qirqim, fasad_1/200</p>	Adabiyot 2,4
3.	<p>M. Innovatsion mahsulotlar va yashil muhit yaratish.</p> <p>A. Loyiha hududining shahar va viloyatdagi joylashuvi, transport aloqalari (piyoda, avtomobil). Muhokama va saytga tashrif ma'lumotlarini to'plash ("Sayt tahlili" ro'yxatiga qarang) eskizlar, diag-rammalar, fotosuratlar orqali hujjatlar</p>	Adabiyot 3,4
4.	<p>M. Shahar ekologiyasi bo'yicha umumiy tushuncha.</p> <p>A. Saytdagi tahlil va kuzatishlar natijasida ishlab chiqilgan dalillarning izchilligi. Munozara - Sayt tahlili plakatlari</p>	Adabiyot 3,4
5.	<p>M. Yashil arxitektura shahar ekologiyasining tarkibiy komponenti sifatida.</p> <p>A. Saytdagi masalalarga shaxsiy qarashni ishlab chiqish. Loyiha variantlarini yaratish.</p>	Adabiyot 3,4
6.	<p>M. Shahar atrof-muhiti va yashil arxitektura holatining o'zgarishi</p> <p>A. Bitta fikrni tanlash. Sayt rejaları, eskizlar va diagrammalar, kont-septsiya maketi.</p>	Adabiyot 1,4
7.	<p>M. Shahar atrof-muhiti va yashil arxitektura holatining uzgarishiga shovqin ta'siri.</p> <p>A. Loyihalash muammosiga arxitekturaviy yondashuvini ishlab chiqish</p>	Adabiyot 3,4

8.	M.Energiya tejamkor arxitektura turlari va funksional vazifalari. A.Loyihalash muammosiga arxitekturaviy yondashuvini ishlab chiqish.Kontseptsiya modeli. Hajmiy model aksonometrik chizmalar, diagrammalar	Adabiyot 1,4
9.	M.Shahar energiya tejamkor muhitini shakllantirish A.Loyihalash muammosining fazoviy yechimlarini ishlab chiqish.Kontseptsiya modeli. Hajmiy model aksonometrik chizmalar, diagrammalar	Adabiyot 3, 4
10.	M.Shahar energiya tejamkor muhitini shakllantirish vositalari A.Fazoviy tashkil etish sifati. Munozara. Chizma rejasi, qirqim, fasad_1/200	Adabiyot 2,3
11.	M.Shahar energiya tejamkor muhitini shakllantirish tamoyillari A.Taklifning kontekstga/saMunozara. Chizma rejasi, qirqim, fasad 1/200ytga ulanish sifati.	Adabiyot 2,4
12.	M.Binolarda qurilish materiallarining issiqlik o'tkazuvchanligini aniqlash metodlari. A.Taklifning kontekstga Munozara. Chizma rejasi, qirqim, fasad_1/200ytga ulanish sifati.	Adabiyot 2,3,4
13.	M.Tashqi to'siq konstruksiyalarining issiqlik va namlik holatini aniqlab, energiya tejamkor binolarda ulardan foydalanish. A.Loyihalash muammosiga arxitekturaviy yondashuvini ishlab chiqish.Munozara . Chizma rejasi, qirqim, fasad_1/50	Adabiyot 1,3,4
14.	M.Tashqi to'siq konstruksiyalarining bino orientatsiyasiga qarab issiqlik va namlik holatini aniqlab, energiya tejamkor binolarda ulardan foydalanish. A.Loyihalash muammosiga arxitekturaviy yondashuvini ishlab chiqish.Munozara . Chizma rejasi, qirqim, fasad_1/50	Adabiyot 3,4
15.	M.Bino va xonalardagi tabiiy yoritilganlik muammolarini tadqiq qilish usullari va vositalari. A.Loyihalash muammosining fazoviy yechimlarini ishlab chiqish.Munozara . Taqdimot planshetlarida ishlash	Adabiyot 2,3

Baholash jarayoni Evaluation System		
Mashg'ulot turi Activities	Soni Number	Baholash Percentage of Grade
Darsga qatnashish Attendance / participation	30	15
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 crtics		

Uyga vazifani baholash Homework assignments	5	10
Ijodiy ish (taqdimot) Presentations / jury	5	5
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	2	60
Laboratoriya ishi Laboratory			
Amaliy ish (qo'shimcha vazifa) application			
Kurs ishi Field work			
Mustaqil ta'lim (maslahat) Study hours out of class	10	9	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	5

ECTS credit

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

Tuzuvchi:  A.A. Aymatov