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AUTOCAD DASTURIDA NAQSH CHIZISH VA BO'YASH USULI

Dilshoda Ag'zam qizi Rustamova

Toshkent viloyati Chirchiq davlat pedagogika instituti talabasi

Ilmiy rahbar: Boburmirzo Baxodir o'g'li Ko'kiyev

ANNOTATSIYA

AutoCAD dasturi yordamida nash chizish, bo'yash bosqichlari ko'rsatilgan. AutoCAD dasturi yordamida darslarni tashkil qilishnin samaradorligi naqsh chizishning qadimiy rivojlanishi haqida ba'zi ma'lumotlar haqida so'z borgan.

Kalit so'zlar: girix, axborot, aylana, geometrik, kvadrat, fazoviy tassavurini, naqsh

METHOD OF DRAWING AND PAINTING IN AUTOCAD

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ABSTRACT

Here are the steps for drawing and painting using AutoCAD. The effectiveness of the organization of lessons using the program AutoCAD There is some information about the ancient development of drawing.

Keywords: input, information, circle, geometric, square, spatial representation, pattern.

KIRISH

Yurtimizdagi eng olis qishloqlardagi maktablarni texnik bazasi eskirganligi va ularni yangilash davr talabi ekanligi har birimizga sir emas. Yurtimizda qabul qilinayotgan har bir o'zgarish chuqur asoslanib, uning yechimni nazarda tutadi va amal qiladi. Yoshlarga e'tibor kelajakka etibor bu iboraga har bir mahalla oila ma'sulligi ahamiyatlidir. O'zbekiston Respublikasida yangi tashkil etilgan mahalla vazirligini ham misol keltirsak bo'ladi. O'zbekiston Respublikasi Prezidentining 2020-yil 18-fevraldagi "Jamiyatda ijtimoiy-ma'naviy muhitni sog'lomlashtirish, mahalla institutini yanada qo'llab-quvvatlash hamda oila va xotin-qizlar bilan ishlash tizimini yangi darajaga olib chiqish chora-tadbirlari to'g'risida"gi PF-5938-son farmoniga muvofiq etibor yanada kuchaydi. Yoshlarni bo'sh vaqitlarni mazmunli

o'tkazish bilim olishi yo'naltrish, bo'sh vaqtni mazmunli, unumli o'tkazishdan iboratdi. Shu boisdan 3 yoshdan bog'chaga, 6 yoshdan maktabga o'qishi davlat tomonidan belgilangan, kiyingi talimlar ixtiyoriy ravishda tanlanadi va o'qiladi. Talabalarni zamonaviy bilim va ko'nikmalarini shakllantirib, ularga axborot texnologiyalari o'rgatib borish bugungi ta'lim jarayoning dolzab masalalaridan bir bo'lib qolmoqda. Har qanday fanlarga axborot-kommunikatsiya texnologiyalari joriy qilish, ta'lim sifatini oshishiga hizmat qiladi. Shu fanlardan chizmachilik, chizma geometriya va muhandislik kompyuter grafikasi fanlari misolida zamonaviy axborot-kommunikatsiya texnologiyalaridan foydalanish fani o'zlashtirish darajasini oshirishga hizmat qiladi. Muhandislik grafikasi fanlarini o'qishda hozirgi kunda AutoCAD dasturidan keng va samarali foydalanib kelinayotgani yuqorida keltirilgan fanlardan talabalarninig bilim, ko'nikma, fazoviy tassavurini rivojlantiribgina qolmay ularni ijodiy ishlashlariga ham turki bermoqda. Ayniqsa talabalarining fazoviy tassavurlarini rivojlantirish ularning ijodkor bo'lishiga AutoCAD dasturidan foydalanib dars mashg'ulotlarini tashkil qilinishi o'z ta'sirini ko'rsatmoqda. Bunga tajribada sinab ko'rilgan gurihlar misol bo'la oladi. Bu tajribalar ya'niy darslarni zamonaviy axborot-kommunikatsiya texnologiyalardan foydalanib o'tilishi samaradorligi yaxshi bo'lishiga o'qituvchi va talabalarga ham qulaylik yaratadi.

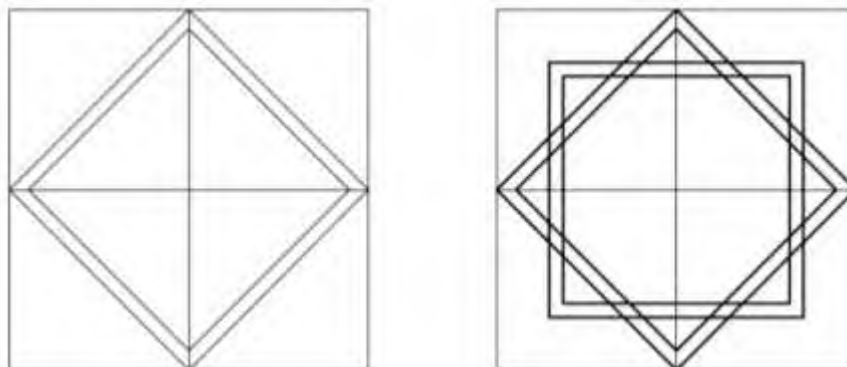
ADABIYOTLAR TAHLILI VA METODOLOGIYA

AutoCAD dasturidan foydalanib turli xil geometrik naqshlar, griklar, detallarning yaqqol tasvirlarini bajarish, ularga qirqim berish, ularga rang tus berish va bir qancha vazifalarni bajarish mumkin. Masalan, AutoCAD dasturidan foydalanib naqsh chizishni ko'rib chiqamiz. Naqsh chizishni talaba va o'rganuvchilarga tushunarli bo'ishi uchun naqshlarni to'rt bosqichda ishlangan namunalarni keltiramiz (1-rasm. a,b,c,d). Naqsh chizish jarayoni tarixi uning chizilish bosqichlari uning elementlarini chizish shu kungacha rivojlanib kelmoqda. O'zbekiston hududida yashagan xalqlar ham qadim zamonlardan oq aylanani teng qismlarga bo'lishning juda aniq usullarini bilishgan.

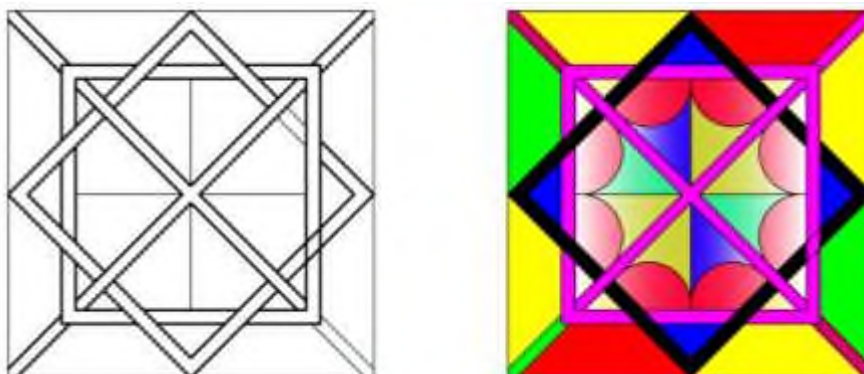
MUHOKAMA VA NATIJALAR

Bu naqshlar: geometrik naqshlar (girix) va o'simliksimon naqshlar (islami) turlariga bo'linadi. Ikkala turdagi naqshlar ham Sharq xalqlarida keng tarqalgan. Lekin bu naqshlar san'at darajasidagi yuksak ko'rinishga ko'tarilishida qadimgi O'zbekiston hududidagi usta va hunarmandlarning hissasi juda katta bo'lgan. Xiva, Samarqand, Buxoro kabi qadimiy shaharlardagi tarixiy obidalar

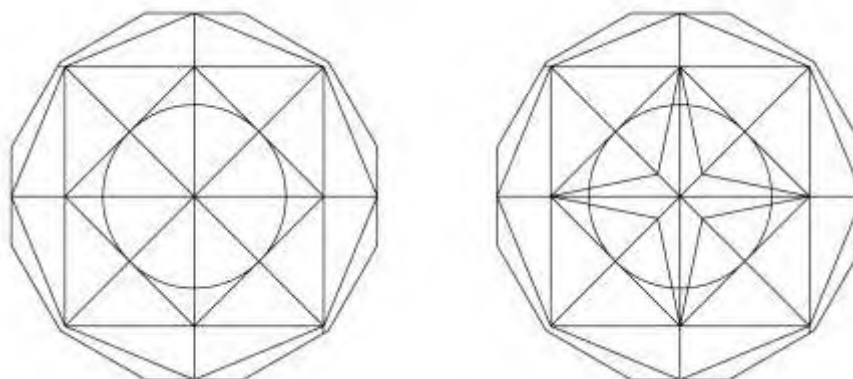
bezaklarida, hunarmandlar tayyorlagan buyumlarda bu naqshlar saqlanib kelmoqda, ayniqsa girixlar chiroy-liligi va nafisligi bilan hozirgacha tadqiqotchilarni o'ziga jalb qilib kelmoqda



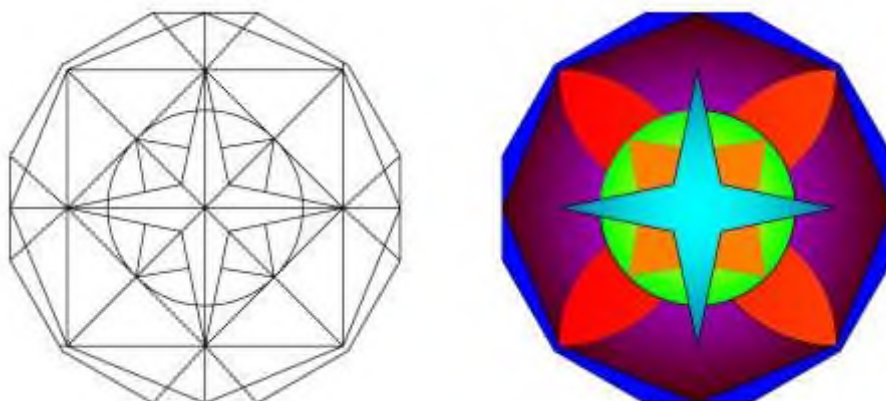
1-rasm a.



1-rasm b.



1-rasm c.



1-rasm d.

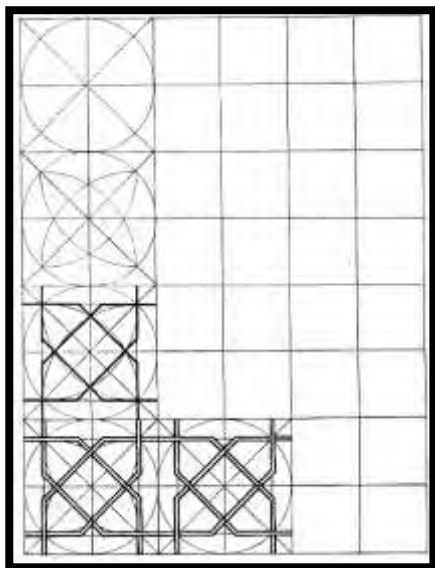


Mustaqil tarzda bajariladigan namunalar

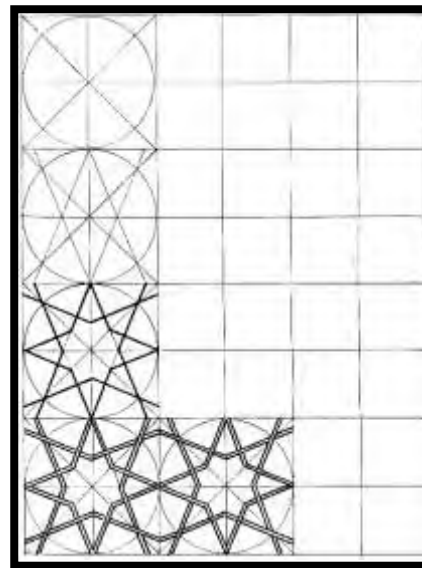
Ayrim murakkab girixlarni bajarish uslublarini aniqlash ham qiyin bo'lgan. Umuman, qadimgi ustalar va hunarmandlar geometrik yasashlarni, aylana va kvadratni teng qismlarga bo'lish, tutashmalarni bajarish usullarini juda yaxshi bilishgan (2-3-rasm).

Aylanani teng qismlarga bo'lish va undan amalda foydalanishga doir yuqoridagilarga o'xshash misollarni ko'plab keltirish mumkin.

O'qituvchi bu misollarni avvaldan tayyorlangan har xil ko'rgazmalar yordamida tushuntirsa o'quvchilarda oddiy geometrik yasashlar orqali chiroyli tasvirlar (naqshlar) kompozitsiyasini tuzishga bo'lgan qiziqish ortadi.



2-rasm. Geometrik yasashlar usulida bajarilgan milliy naqshlar.



3-rasm. Geometrik yasashlar usulida bajarilgan milliy naqshlar.

Talabalarning AutoCAD dasturi yordamida geometrik yasashlar usulida bajarilgan milliy naqshlarni chizishi orqali talabalarda milliylikni shakllantirish, ularni yangi naqshlar yaratishda milliylikdan andoza olib yaratilishiga undash.

XULOSA

Hozirgi axborot-kommunikatsiya texnologiyalari rivojlangan davrda talabalarga dars berish jarayonini to'g'ri tashkil qilinmasligi talabalarni dars ma'shg'ulotlariga qiziqishlarini sustlashishiga olib keladi. Shu o'rinda o'tgan davrlarga nazar soladigan bo'lsak shu paytga qadar o'qituvchi ta'lim beruvchi, ya'niy axborot uzatuvchi bo'lgan bo'lsa, hozirgi kunda aksincha o'qituvchi ham o'quvchi ham axborot uzatuvchi ya'niy axborotlarni qabul qiluvchisi bo'lib qolmoqda. Bundan ko'rishimiz mumkinki endi ba'zi o'quvchilar o'qituvchidan ko'proq ma'lumotlarga ega bo'lib bormoqda, shu sababli endi o'qituvchi o'zining ustida izlanmasa o'qib asoslangan ma'lumotlarni talabaga yetkazmasa bo'lmaydigan vaziyatga kelib qolmoda. Bundan ko'rinib turibdiki endi o'qituvchiga ma'suliyat oshishini ko'rishimiz mumkin.

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