



**MUTAXASSISLIK FANLARI BO‘YICHA O‘QUV JARAYONINING  
ELEKTRON-DASTURIY VA METODIK TA‘MINOTINI  
TAKOMILLASHTIRISH**

**Sayfullayeva G.I.**

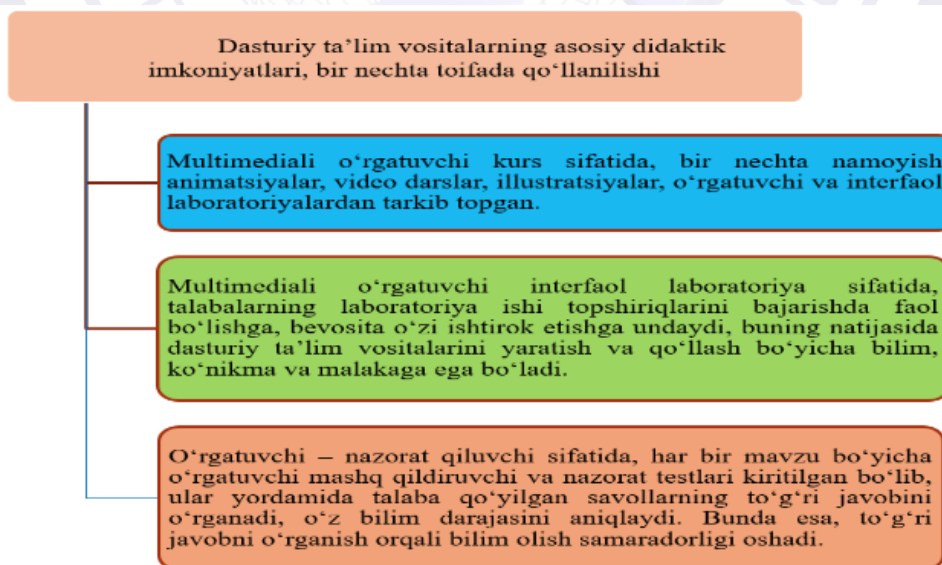
*Navoiy davlat pedagogika instituti  
professori*

**Malikova M.B.**

*Navoiy davlat pedagogika instituti  
magistranti*

**Kalit so‘zlar:** *Mutaxassislik fanlar, o‘quv jarayon, texnologiya, mutaxassislik, dasturiy ta‘lim, metodik ta‘minot.*

Bugungi kunda kadrlar tayyorlash dolzarb muammolardan biri sifatida e‘tibor qaratilayotgan bo‘lsada, oliy ta‘lim muassasalarining aniq va tabiiy yo‘nalishlaridagi o‘quv-metodik ta‘minot va moddiy-texnik baza bugungi kunning innovatsion talablari javob bermaydi. Oliy ta‘lim muassasalarida mutaxassislik fanlarini o‘qitishda dasturiy ta‘lim vositalarini qo‘llash ta‘lim samaradorligini oshirishga ijobiy ta‘sir ko‘rsatadi. Mutaxassislik fanlarini dasturiy ta‘lim vositalar asosida o‘qitish, bo‘ljak “Texnologiya” fani o‘qituvchilariga axborotlarning noan‘anaviy manbaalariga murojaat qilish imkoniyatlarini ochib beribgina qolmasdan, mustaqil ishlash samaradorligini oshiradi va kreativlikka qaratilgan faoliyat bilan shug‘ullanish uchun keng imkoniyatlar yaratadi



**1-rasm. Dasturiy ta‘lim vositalarning asosiy didaktik imkoniyatlari, bir nechta toifada qo‘llanilishi**

Dasturiy ta‘lim vositalari o‘quv jarayonini qisman yoki to‘liq avtomatlashtirish uchun mo‘ljallangan didaktik va o‘quv-metodik vosita bo‘lib hisoblanadi. Ular ta‘lim



jarayonini samaradorligini oshirishning istiqbolli shakllaridan biri hisoblanib, zamonaviy texnologiyalarning o'qitish vositasi sifatida ishlatiladi. Dasturiy ta'lim vositalari dinamik illustratsiyalar, ovozli jarayonlar, 3D animatsiyalar kabi effektlarni amalga oshiruvchi dasturlardan foydalanib yaratilib qo'llanilishi quyida batafsil izohlangan (1-rasmga qarang).

O'quv jarayonida dasturiy ta'lim vositalaridan foydalanishning keng pedagogik imkoniyatlari qayd etilib, uning xususiyatlari, ta'lim va tarbiyaviy faoliyat vositasi sifatida ko'rib chiqish va mazmunan takomillashtirish zarur va yetakchi tamoyillaridan biri hisoblanadi. Dasturiy ta'lim vositalari yordamida o'tilgan dars mashg'ulotlari negizida talabada bir qancha ijobiy kasbiy sifatlar tarkib topishi nazariy asoslanib, quyida bo'lajak "Texnologiya" fani o'qituvchilarining kasbiy sifatleri keltirilgan (2-rasmga qarang).



## 2-rasm. Bo'lajak "Texnologiya" fani o'qituvchilarining kasbiy sifatleri

"Texnologiya" ta'lim yo'nalishi talabalarini innovatsion kasbiy faoliyatga tayyorlashdagi ularning rivojlanganlik darajasini aniqlash va baholashda dasturiy ta'lim vositalardan amalda nazorat qilish imkonini beruvchi dasturlashtirilgan elektron didaktik vosita bo'lib xizmat qildi

Yuqorida ta'kidlangan ta'lim jarayonining muammolarini bartaraf etishda, dasturiy ta'lim vositalaridan samarali foydalanishni tashkil qilish, talabalarning innovatsion kasbiy faoliyatidagi kreativligiga oid bilim, ko'nikmalarni shakllantirish, o'z tajribalarini ijodiy nuqtayi nazardan yanada mustahkamlash, real amaliyotdagi sharoitda sinash va amaliy ko'nikmalarni innovatsion bilimlar asosida rivojlantirish maqsadida dasturiy ta'lim vositalaridan foydalanishning takomillashtirilgan metodikasi ishlab chiqilib, amaliyotga joriy qilinib, tajriba-sinov dars mashg'ulotlari o'tkazildi



Bo'lajak "Texnologiya" fani o'qituvchilarining innovatsion kasbiy faoliyatini rivojlantirishdagi bilimlari nazariy mashg'ulotlarda, ko'nikmalar amaliy va laboratoriya mashg'ulotlarida, malakalarni esa mustaqil ta'lim jarayoni va amaliy faoliyatda egallashga xizmat qiladi. Shuning uchun mutaxassislik fanlarini o'qitishda amaliy mashg'ulotlar va mustaqil ta'lim alohida ahamiyatga ega hisoblanadi. Amaliy mashg'ulotlar va mustaqil ishlar ta'lim jarayonining muhim shakllaridan biri bo'lib, talabalar o'quv topshiriqlari majmuasini amaliy jarayonda o'zlashtiradilar. Topshiriqni bajarish ketma-ketligi va uni bajarish metodlarini amaliy ko'rsatma asosida talabalar mustaqil o'rganishlari mumkin. Ma'ruza jarayonida yaxshi o'zlashtirmagan talaba dasturiy ta'lim vositalaridan vaqt ajratib mustaqil o'zlashtirish imkoniyatiga ega bo'ladi. Har bir ma'ruza oxirida mavzu doirasidagi testlar orqali bilimni mustahkamlash imkoniyatiga ega bo'ladi. Texnologik jarayonlarni ko'rish imkoniyati bo'lmagan mavzular doirasida video roliklar ishlab chiqilgan

Texnologik jarayonlarni ko'rish, fikrlash va tahlil qilish uchun dasturiy ta'lim vositalar muhim ahamiyatga ega bo'lib, kompyuter dasturlarining rivojlanishi nuqtayi nazaridan eng dolzarb vazifalardan biri bo'lib hisoblanadi

### Adabiyotlar:

1. I.R. Kamolov, G.I. Sayfullaeva -Formation of teacher's competence in the performance of laboratory and experimental works Journal of critical reviews. ISSN-2394-5125, 2020
2. С.С.Канатбаев, И.Р.Камалов, Д.И.Камолова, Г.И.Сайфуллаева. "Universum: технические науки". Россия. Декабрь, 2016. №12(33). 38-40 стр.
3. A.R. Sattorov G. I. Sayfullaeva, Methodology of Application of Innovative Educational Technologies from Astronomy to Laboratory Activities 2021/10/29 European Journal of Life Safety and Stability (2660-9630) 125-128
4. O'.K.Sunnatova, G.I.Sayfullayeva. Making a vacuum cleaner using the stem education system in students' laboratory classes. Web of Discoveries: Journal of Analysis and Inventions. 2023. 43-47.
5. Sayfullaeva Gulkhayo Ikhtiyor Kizi, Shodiev Khamza Ruziculovich, Xaitova Shakhnoza G'olibjon Kizi Conditions For The Formation Of Teaching Innovation Activities Journal of Pharmaceutical Negative Results, 2023 2420-2423
6. Ikrambayevna, S. D. (2024). Classification of Functions of Communicative Strategy and Tactics in Political Communication. Miasto Przyszłości, 50, 548-553.
7. M Muhabbat, B Aziza, GI Sayfullayeva OPPORTUNITIES FOR THE USE OF INNOVATIVE TECHNOLOGIES IN THE ORGANIZATION OF INDEPENDENT EDUCATION IN THE CREDIT-MODULE SYSTEM Web Of Humanities: Journal Of Social Science And Humanitarian Research 1 (8 ...





8. M Muhabbat, B Aziza, GI Sayfullayeva FINAL CONTROL WORK DISTANT. TSUL. UZ DOWNLOAD INSTRUCTION TO THE DISTANCE LEARNING PLATFORM Web Of Teachers: Inderscience Research 1 (8), 82-86
9. M Muhabbat, B Aziza, GI Sayfullayeva THE USE OF INNOVATIVE TECHNOLOGIES IN THE ORGANIZATION OF INDEPENDENT EDUCATION Web Of Technology: Multidimensional Research Journal 1 (8), 9-11
10. M. Muhabbat, B. Aziza, G.I. Sayfullayeva ADVANTAGES OF INDEPENDENT EDUCATION IN THE CREDIT MODULE SYSTEM IN EDUCATION Web Of Discoveries: Journal Of Analysis And Inventions 1 (8), 9-13
11. R. Nilufar, G.I Sayfullayeva Principles Of The Credit-Module System Diversity Research: Journal Of Analysis And Trends 1 (8), 49-52
12. A.M. Bozorova OLIY TA'LIM MUASSASALARIDA ASTRONOMIYA KURSIDAN MASHG'ULOTLARNI O'QITISHDA VA TALABA KOMPETENTLIGINI OSHIRISHDA INTEGRATSIYALASHGAN INNOVATSION TEXNOLOGIYALARINI JORIY ...Journal Of Science-Innovative Research In Uzbekistan 1 (8), 6-11
13. SH. Rozikulovich, S. Gulhayo METHODOLOGY FOR FINDING THE TOPIC OF THE EARTH IN DISTANCE EDUCATION ON THE BASIS OF AN INTEGRATIVE APPROACH Journal Of Academic Research And Trends In Educational Sciences 1 (10), 21-33 2022
14. G.I. Sayfullayeva, H.R. Shodiyev KREDIT MODUL TIZIMIDA FANLARNI INTEGRATSION YONDASHUV ASOSIDA O 'QITISHNING AFZALLIKLARI
15. Bozorova Aziza : Sayfullayeva Gulhayo Ixtiyor qizi ASTRONOMIYADAN STEM DASTURIDAN FOYDALANIB QUYOSH SOATI MAVZUSINI O'QITISH - Yosh tadqiqotchi jurnali, 2022 35-38
16. Ikramboyevna, A. D., & Ikramboyevna, S. D. (2023). The Ways of Forming Secondary Nomination in Uzbek Language and Its Impact on Linguistics.
17. Axmedova, D., & Zarmaskhonov, S. (2024, February). EXPLORING GLOBAL PERSPECTIVES IN LANGUAGE TEACHING AND LEARNING. In Conference Proceedings: Fostering Your Research Spirit (pp. 205-207).
18. M Muhabbat, B Aziza, G.I. Sayfullayeva FINAL CONTROL WORK DISTANT. TSUL. UZ DOWNLOAD INSTRUCTION TO THE DISTANCE LEARNING PLATFORM Web Of Teachers: Inderscience Research 1 (8), 82-86
19. M Muhabbat, B Aziza, G.I. Sayfullayeva Elements Of The Credit-Module System In Higher Education In The Republic Of Uzbekistan Web Of Scientists And Scholars: Journal Of Multidisciplinary Research 1 (8 ...
20. M Muhabbat, B Aziza, G.I. Sayfullayeva OPPORTUNITIES FOR THE USE OF INNOVATIVE TECHNOLOGIES IN THE ORGANIZATION OF INDEPENDENT EDUCATION IN THE CREDIT-MODULE SYSTEM Web Of Humanities: Journal Of Social Science And Humanitarian Research 1 (8 ...