

**Important advantages of training future educators using special applications in the digital technology environment****Yuldashev Sherzod Sattorovich***Kokand State Pedagogical Institute,**Master's degree in "Information Technology in education"\***Email address: [sherzodyuldashov171@gmail.com](mailto:sherzodyuldashov171@gmail.com)***Annotation**

The effective use of special electronic software tools in modern training is rapidly developing today. This is due to the constant improvement of technology. To master the necessary programs, interactive whiteboards and codoscopes (ref projectors), computers, as well as the latest devices designed to reproduce data from digital carriers, have appeared and are successfully used. The article also discusses the advantages and practical significance of the methodology for the development of professional and pedagogical training of students on the basis of special software tools, special applications.

**Keywords:** program, method, electronic textbooks, pedagogical technology, computer

**KIRISH**

Hozirgi vaqtda elektron ta'lim vositalari pedagogik jarayonni axborot-moddiy jihatdan ta'minlashda tobora yuqori o'rinni egallamoqda. Maxsus pedagogik dasturiy vositalar – kompyuter texnologiyalari yordamida o'quv jarayonini qisman yoki to'liq avtomatlashtirish uchun mo'ljallangan didaktik vosita hisoblanadi. Ular ta'lim jarayonini samaradorligini oshirishning istiqbolli shakllaridan biri hisoblanib, zamonaviy texnologiyalarning o'qitish vositasi sifatida ishlatiladi. Har bir mutaxassis o'z kasbiy sohasida qo'llashi lozim bo'lgan informatika va axborot texnologiyalaridan foydalanish imkoniyatlari haqidagi bilimlarga ega bo'lishi va ulardan foydalanish uchun ko'nikma va malakalarni shakllantirish va rivojlantirishdan zarur. Unda har bir kasb egasining faoliyati kerak bo'lgan tayanch nazariy va amaliy ma'lumotlarni o'z ichiga oladi.

Maxsus pedagogik dasturiy vositalar tarkibiga: o'quv fani bo'yicha aniq didaktik maqsadlarga erishishga yo'naltirilgan dasturiy mahsulot (dasturlar majmuasi), texnik va metodik ta'minot, qo'shimcha yordamchi vositalar kiradi. Bundan kelib chiqib, bo'lajak matematika-informatika fani o'qituvchisi - dasturiy vositalar, pedagogik va amaliy dasturiy vositalar, avtomatlashtirilgan ish joylari, ixtisoslashtirilgan dasturiy vositalar to'g'risidagi bilimlarga ega bo'lish; - dasturiy vositalarning tasnifini, pedagogik dasturiy vositalar turlarini, amaliy dasturiy vositalar turlarini, ixtisoslashtirilgan dasturiy vositalar maqsadi va vazifalarini, matematik masalalarni yechishda qo'llaniladigan amaliy uskunaviy paketlarni, matematik va tabiiy – ilmiy matnlar tayyorlash texnologiyasi va uning dasturiy ta'minotini, kompyuterli loyihalash paketlarini ishlatish olish ko'nikmalariga ega bo'lishi; pedagogik dasturiy vositalarini yaratish va o'quv jarayonida qo'llash, ixtisoslashtirilgan dasturiy vositalar bilan ishlash, matematik masalalarni yechishda qo'llaniladigan amaliy uskunaviy paketlar bilan ishlash, statistik ma'lumotlarni qayta ishlash paketi bilan ishlay olish malakalariga ega bo'lishi kerak.

Pedagogik dasturiy vositalar (PDV) – kompyuter texnikasi yordamida o'qitish jarayonini qisman yoki to'la avtomatlashtirish uchun mo'ljallangan didaktik vositalar majmui hisoblanadi. PDV tarkibiga: u yoki bu o'quv predmetini o'qitishda berilgan didaktik maqsadlarga erishishga yo'naltirilgan dastur (yoki maxsus ilova); texnik va metodik hujjatlar komplekti, shuningdek zarur hollarda qo'shimcha vositalar to'plami kiradi.

Pedagogik dasturiy vositalarni quyidagilarga ajratish mumkin:

- ❖ o'rgatuvchi dasturlar – o'quvchilarning bilim darajasi va qiziqishlaridan kelib chiqib yangi bilimlarni o'zlashtirishga yo'naltiradi;
- ❖ -test dasturlari – egallangan bilim, malaka va ko'nikmalarni tekshirish yoki baholash maqsadlarida qo'llaniladi;
- ❖ -mashq qildirgichlar - avval o'zlashtirilgan o'quv materialini takrorlash va mustahkamlashga xizmat qiladi;

❖ -o'qituvchi ishtirokidagi virtual o'quv muhitini shakllantiruvchi dasturlar.

### ***Pedagogik dasturiy vositalar yaratishga qo'yiladigan talablar***

Pedagogik dasturiy vositalarni yaratish texnologiyasini amalga oshirish maqsadida ularning an'anaviy vositalardan ustunligini tasdiqlovchi qator ijobiy omillar mavjud. Mazkur omillar didaktik, psixologik, iqtisodiy, fiziologik guruhlarga ajratildi.

Pedagogik dasturiy vositalarga qo'yiladigan didaktik talablarga quyidagilar kiradi: ilmiylik, tushunarli, qat'iy va tizimli bayon etilishi bilan birgalikda (pedagogika, psixologiya, informatika, ergonomikaning asosiy tamoyillarini, zamonaviy fanning fundamental asoslarini hisobga olib, o'quv faoliyati mazmunini qurish imkoniyatini ta'minlash), uzluksizlik va yaxlitlik (ilgari o'rganilgan bilimlarning mantiqiy oqibati hamda to'ldiruvchisi hisoblanadi), izchillik, muammolilik, ko'rgazmalilik, faollashtirish (o'qitish mustaqilligi hamda faollilik xususiyatining mavjudligi), o'qitish natijalarini o'zlashtirish mustahkamligi, muloqotning interfaolliligi, o'qitish, tarbiyalash, rivojlantirish va amaliyotning yaxlit birligi.

1. Pedagogik dasturiy vositalar – o'quv materialini taqdim etishning tushunchali, obrazli va harakatli komponentlarining o'zaro bog'liqligiga tayangan holda qurilishi.

2. Pedagogik dasturiy vositalar o'quv materialini yuqori tartibli tuzilma ko'rinishida ta'minlashi. Fanlararo mantiqiy o'zaro bog'liqlikning hisobga olinishi.

3. Pedagogik dasturiy vositalarda ta'lim oluvchiga o'quv materialini bosqichma-bosqich o'zlashtirganligini turli xildagi nazoratlarni amalga oshirish asosida aniqlash imkoniyatlarining yaratilishi.

Kompyuter qurilmalari va ular bilan bog'liq telekommunikatsiya va axborot texnologiyalarining keng tarqalishi jamiyat hayotining deyarli barcha sohalarida yangi yo'nalishlarni yaratishga olib keladi.

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