

**LOYIHALASH TEXNOLOGIYALAR ASOSIDA BO'LAJAK  
FIZIKA FANINING PEDAGOGIK TAHLILI.**

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“Umumtexnik fanlar” kafedrası dotsenti

**Annotatsiya:** Mazkur maqolada loyihalash texnologiyalari asosida bo'lajak fizika fani o'qituvchilarini tayyorlash jarayoni pedagogik jihatdan tahlil qilinadi. Unda zamonaviy ta'lim texnologiyalaridan foydalanish orqali talabalarda mustaqil fikrlash, muammoli vaziyatlarni hal etish va kasbiy kompetensiyalarni shakllantirish masalalari yoritilgan. Shuningdek, loyihaviy ta'limning fizika fanini o'qitish samaradorligini oshirishdagi o'rni asoslab beriladi.

**Kalit so'zlar:** Individual, didaktik, innovatsion, strukturaviy, resurs, motivatsion, komponent.

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**ПЕДАГОГИЧЕСКИЙ АНАЛИЗ ФИЗИКИ БУДУЩЕГО НА  
ОСНОВЕ ПРОЕКТНЫХ ТЕХНОЛОГИЙ.**

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**Аннотация:** В данной статье представлен педагогический анализ процесса подготовки будущих учителей физики на основе проектно-ориентированного образования. В ней освещаются вопросы развития самостоятельного мышления, навыков решения проблем и профессиональных компетенций у учащихся посредством использования

современных образовательных технологий. Также обосновывается роль проектного образования в повышении эффективности преподавания физики.

**Ключевые слова:** Индивидуальный, дидактический, инновационный, структурный, ресурсный, мотивационный, компонентный.

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## **PEDAGOGICAL ANALYSIS OF FUTURE PHYSICS BASED ON DESIGN TECHNOLOGIES.**

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**Abstract** In scientific research carried out in the educational system, as a result of studying the analysis of the didactic - pedagogical and methodological aspects of the concepts of independent creative activity of students, the fact that the study was not analyzed as a complete problem is to teach us to be able to apply information, further substantiating the digital didactic provision of the development of independent.

**Key words:** Individual, didactic, innovative, structural, resource, motivational, component.

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Zamonaviy ta’lim tizimining asosiy maqsadlaridan biri raqobatbardosh, ijodkor va kasbiy jihatdan yetuk pedagog kadrlarni tayyorlashdan iboratdir. Bugungi globallashuv va texnologik taraqqiyot sharoitida fizika fanini o‘qitish

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jarayoni ham tubdan yangilanib, an'anaviy bilim berishdan kompetensiyaviy yondashuvga o'tmoqda. Bu jarayonda bo'lajak fizika fani o'qituvchilarining nafaqat fan bilimlari, balki pedagogik, metodik va innovatsion salohiyatini rivojlantirish muhim ahamiyat kasb etadi.

Ayniqsa, ta'lim jarayonida talabalarning mustaqil faoliyatini faollashtiruvchi, ularni real hayotiy muammolar bilan ishlashga o'rgatuvchi pedagogik texnologiyalarni qo'llash zarurati ortib bormoqda. Shunday texnologiyalardan biri — loyihalash texnologiyalaridir. Ushbu maqolada loyihalash texnologiyalari asosida bo'lajak fizika fani o'qituvchilarini tayyorlash jarayoni keng pedagogik tahlil qilinadi, uning nazariy asoslari, amaliy imkoniyatlari va ta'lim samaradorligiga ta'siri yoritiladi.

Loyihalash texnologiyalarining mohiyati

Loyihalash texnologiyasi — bu ta'lim oluvchilarning aniq maqsadga yo'naltirilgan, mustaqil va ijodiy faoliyatini tashkil etishga asoslangan ta'lim usulidir. Ushbu texnologiya orqali talabalar muammoli vaziyatlarni tahlil qiladi, ilmiy farazlar ilgari suradi, tajribalar o'tkazadi va yakuniy mahsulot (loyiha) yaratadi. Natijada ta'lim jarayoni faqat bilim berish bilan cheklanmay, balki amaliy ko'nikma va kompetensiyalarni shakllantirishga xizmat qiladi.

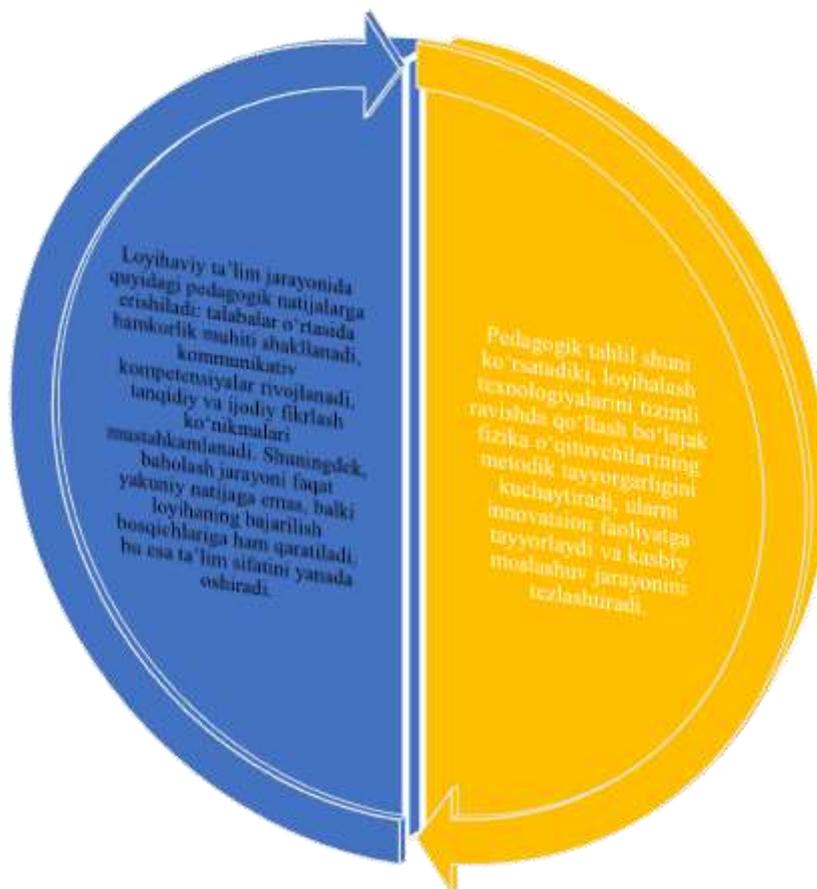
Fizika fanini o'qitishda loyihaviy yondashuv

Fizika fanining mazmuni tabiiy hodisalar, qonuniyatlar va tajribalarga asoslanganligi sababli loyihalash texnologiyalari bu fan uchun ayniqsa mos keladi. Bo'lajak fizika o'qituvchilari loyihalar orqali laboratoriya ishlarini rejalashtirish, tajribalarni modellashtirish, dars ishlanmalarini ishlab chiqish va innovatsion ta'lim resurslarini yaratishni o'rganadilar. Bu jarayon ularda fanlararo bog'liqlikni anglash, mantiqiy fikrlash va muammoga ilmiy yondashish ko'nikmalarini rivojlantiradi.

Pedagogik jihatdan loyihalash texnologiyalari ta'lim oluvchining shaxsiga yo'naltirilgan yondashuvni ta'minlaydi. Ushbu texnologiya orqali talaba ta'lim jarayonining faol subyekti sifatida namoyon bo'lib, o'zining bilim, ko'nikma

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va malakalarini mustaqil ravishda shakllantiradi. Bo‘lajak fizika fani o‘qituvchilari loyihalar ustida ishlash jarayonida o‘quv materialini chuqur tahlil qilish, uni didaktik jihatdan qayta ishlash va o‘quvchilar yosh xususiyatlariga mos holda taqdim etishni o‘rganadilar



Xulosa qilib aytganda, loyihalash texnologiyalaridan foydalanish bo‘lajak fizika fani o‘qituvchilarini tayyorlashda muhim pedagogik ahamiyatga ega. Ushbu texnologiyalar orqali ta’lim sifati oshadi, talabalarning kasbiy kompetensiyalari shakllanadi va ularning kelajakdagi pedagogik faoliyatiga mustahkam poydevor yaratiladi. Shuning uchun oliy ta’lim muassasalarida fizika o‘qituvchilarini tayyorlash jarayonida loyihaviy ta’limni keng joriy etish maqsadga muvofiqdir.

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