

INFORMATION TECHNOLOGIES ELEMENTARY EDUCATION TO THE PROCESS INTEGRATION IN DOING FUTURE TEACHERS READINESS

Ergasheva Khilolokhon Muydinjonovna
Kokand State University

Annotatsiya: Mazkur maqolada boshlang'ich ta'lim tizimida axborot texnologiyalarini samarali integratsiya qilishda bo'lajak o'qituvchilarning tayyorgarlik darajasi, pedagogik yondashuvlar va zamonaviy AKT vositalaridan foydalanish kompetensiyasining ahamiyati yoritilgan. Pedagogik ta'lim jarayonida raqamli vositalarni o'zlashtirish, ularni darsga tatbiq qilish strategiyalari hamda bu yo'nalishda uchraydigan muammolar va ularni bartaraf etish yo'llari tahlil qilingan.

Kalit so'zlar: axborot texnologiyalari, boshlang'ich ta'lim, integratsiya, bo'lajak o'qituvchilar, pedagogik kompetensiya, raqamli savodxonlik.

Аннотация: В статье рассматривается уровень подготовки будущих учителей начальных классов к эффективной интеграции информационных технологий в образовательный процесс. Особое внимание уделено педагогическим подходам, формированию ИКТ-компетентности, методам внедрения цифровых ресурсов в уроки, а также проблемам, возникающим в ходе подготовки студентов педагогических направлений.

Ключевые слова: информационные технологии, начальное образование, интеграция, будущие учителя, педагогическая компетентность, цифровая грамотность.

Abstract: This article explores the preparedness of future primary school teachers for the effective integration of information technologies into the educational process. It highlights pedagogical strategies, ICT competence development, application of digital tools in lessons, and the challenges encountered during teacher training, offering solutions for better digital pedagogical integration.

Keywords: information technologies, primary education, integration, future teachers, pedagogical competence, digital literacy.

Login . Information technologies education to the field enter arrival education process form and content fundamentally is changing . Especially the beginning in class teacher not only knowledge provider , but also from ICT tools right and effective to use guide person as manifestation will be . Therefore, the future teachers this about readiness strategic importance profession will reach .

1. Information technologies elementary in education role

Elementary ICT tools in education following to aspects service does :

- In students motivation increases
- Visual and interactive approach through lesson efficiency strengthens
- To the teacher modern assessment and monitoring capabilities creates

For example , interactive whiteboards , multimedia textbooks , test platforms (Kahoot , Quizizz) process animates .

2. Future ICT competence of teachers

Pedagogical ICT competence of the following consists of :

- **Technical Skills :** computer , tablet , internet, electronics textbooks with work

- **Didactic hand to get** : technologies into science content suitable choice and implementation to do
- **Information culture** : digital security , plagiarism against conscious approach , critical thinking

ICT competence is just technician knowledge not , maybe him/her to the individual needs of students suitable without implementation to do is a skill .

3. Future teachers in preparation integration stages

Future ICT integration among teachers in formation following stages separates :

Stage	Description
1. Knowledge stage	Technologies about general concepts
2. Practice stage	Laboratory training , virtual class scenarios
3. Independent application stage	Pedagogical practice during ICT implementation to do

4. Pedagogical education in the process usable digital resources

Tool	Task
Google Classroom	Remote lessons organization to grow
Power point	Visual presentations preparation
Canva , Genially	To the lesson interactive elements input
Quizlet , Wordwall	Online exercises and tests create
Padlet	Collective the work organization to grow for platform

5. Three standing problems and solutions

Problems :

- To practice undirected theoretical lessons
- Computers and the internet network enough not being
- Teachers' on their ICT competence low

Solutions :

- Pedagogical " ICT and digital pedagogy " modules expansion
- Local and international grants based on technician the base develop
- ICT effective application according to teacher-student system through teachers preparation

6. Conclusion and offers

Future teachers' use of ICT tools pedagogical for purposes use to take level education quality determinant from factors is one . Integrated approach via :

- teacher student for inspiration to the source turns
- student and interactive , modern tools using independent to think learns

Recommendation is being done :

- Every one pedagogical in the direction a special "ICT practice " module is introduced to be
- Training real lesson in training scenarios ICT tools based on to apply attention to be given
- Digital from resources use critical thinking with harmonization

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