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PEDAGOGIK TA’LIM VA DARS AMALIYOTIDA AKT INTEGRATSIYASINING SAMARADORLIKKA TA’SIRI.

ВЛИЯНИЕ ИНТЕГРАЦИИ ИКТ НА ЭФФЕКТИВНОСТЬ ПЕДАГОГИЧЕСКОГО ОБРАЗОВАНИЯ И УЧЕБНОЙ ПРАКТИКИ.

THE IMPACT OF ICT INTEGRATION ON THE EFFECTIVENESS OF TEACHER EDUCATION AND CLASSROOM PRACTICE

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Farg‘ona davlat univeristeti, “Axborot texnologiyalari” kafedrasi katta o‘qituvchisi

Annotatsiya

Mazkur maqolada pedagogik ta’lim jarayonida axborot-kommunikatsiya texnologiyalarini (AKT) integratsiyalashning samaradorlikka ko‘rsatgan ta’siri o‘rganiladi. Tadqiqot davomida o‘qituvchilar malakasini oshirish, dars sifati va o‘quvchilarning faolligi kabi mezonlar asosida AKT vositalarining ta’limga qo‘shgan hissasi tahlil qilinadi. Shuningdek, mavjud muammolar va ularni bartaraf etish bo‘yicha tavsiyalar ham beriladi.

Аннотация

В данной статье рассматривается влияние интеграции информационно-коммуникационных технологий (ИКТ) на эффективность педагогического образования и учебной практики. Анализируются такие аспекты, как повышение квалификации преподавателей, качество уроков и активность учащихся. Также представлены существующие проблемы и предложены рекомендации по их преодолению.

Abstract

This article examines the impact of integrating information and communication technologies (ICT) on the effectiveness of teacher education and classroom practices. It analyzes how ICT tools contribute to improving teacher qualifications, lesson quality, and student engagement. The study also highlights existing challenges and provides recommendations for more effective implementation.

Kalit so‘zlar: *raqamli pedagogika, AKT integratsiyasi, o‘qituvchilarni tayyorlash, dars amaliyoti, kasbiy rivojlanish, metodik kompetensiyalar, elektron ta’lim texnologiyalari, ta’limdagi innovatsiyalar.*

Ключевые слова: *цифровая педагогика, интеграция ИКТ, подготовка преподавателей, учебная практика, профессиональное развитие, методические компетенции, технологии электронного обучения, образовательные инновации.*

Key words: *Digital pedagogy, ICT integration, teacher education, classroom practices, professional development, methodological competencies, e-learning technologies, educational innovation*.

INTRODUCTION

The evolution of Information and Communication Technologies (ICT) has redefined various societal sectors, with education experiencing some of the most profound changes. The XXI century classroom is no longer confined to traditional methods of teaching; it is an interactive space where technology plays a central role in shaping teaching and learning experiences. Teacher education programs must adapt to this digital shift, equipping future educators with the necessary skills to leverage technology effectively.

This paper explores the concept of digital pedagogy, its theoretical framework, and its impact on teacher education and classroom practices. By examining how ICT is integrated into pedagogical methods, the study aims to uncover strategies for enhancing the quality of teacher training and ensuring its alignment with modern educational demands.

Defining Digital Pedagogy. Digital pedagogy refers to the use of technology to support, enhance, and transform teaching and learning processes. It transcends the simple application of digital tools by integrating them into the core of pedagogical strategies.

Digital pedagogy emphasizes:

- Personalized learning experiences.
- Collaborative and participatory teaching methods.
- The development of digital literacy and critical thinking skills.

Theories Supporting ICT Integration

Several educational theories underline the importance of ICT in pedagogy:

1. **Constructivism:** This theory emphasizes learner-centered education, where students construct knowledge through active engagement. ICT facilitates this process by providing tools such as virtual simulations, interactive software, and collaborative platforms.
2. **Connectivism:** Proposed by George Siemens, this theory highlights the importance of networks in learning. ICT enables learners to access and share knowledge globally, fostering a more interconnected and resourceful educational environment.
3. **Bloom's Taxonomy in the Digital Age:** Bloom's taxonomy has been adapted to include digital skills, such as creating, evaluating, and analyzing digital content. This framework helps teachers design lessons that incorporate higher-order thinking skills supported by technology.

The Role of ICT in Teacher Education

ICT integration in teacher education programs aims to:

- Equip educators with the skills to use digital tools effectively.
- Enhance their ability to design and deliver technology-rich lessons.
- Develop their capacity for lifelong learning in an ever-evolving digital landscape.

Literature Review

Research shows that countries with robust ICT integration policies in education, such as Finland and Singapore, report higher teaching efficacy and student outcomes. For instance, Finland's emphasis on digital pedagogy includes training teachers in using online platforms and creating collaborative learning environments.

Studies indicate that teachers trained in ICT demonstrate improved methodological competencies and adaptability. The ability to integrate multimedia tools, data analytics, and interactive platforms into teaching has become a hallmark of effective educators.

Despite its benefits, ICT integration faces several barriers:

- **Infrastructure Gaps:** Many schools lack access to reliable internet and modern devices.
- **Skill Deficits:** Teachers often need more training to use digital tools confidently.
- **Resistance to Change:** Some educators prefer traditional methods and are hesitant to adopt new technologies.

Effective strategies for ICT integration include:

- Providing ongoing professional development opportunities.
- Ensuring equitable access to technology.
- Promoting a culture of innovation within educational institutions.

Conclusion (**Xulosa/Заключение)** Digital pedagogy is reshaping the landscape of teacher education and classroom practices. By integrating ICT into pedagogical methods, educators can create more inclusive, engaging, and effective learning environments. While challenges such as infrastructure gaps and resistance to change persist, targeted strategies and robust policies can facilitate successful implementation.

This study underscores the importance of continued investment in teacher training programs that prioritize digital literacy and innovation, ensuring educators are equipped to meet the demands of modern classrooms.

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