



# MECHANISM FOR THE FORMATION OF PROFESSIONAL QUALITIES OF FUTURE PRESCHOOL EDUCATORS USING DIGITAL EDUCATION TOOLS

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## ABSTRACT

*This article analyzes the importance of digital tools in strengthening the theoretical knowledge of teachers, developing practical skills, and forming creative thinking and innovative approaches. Methods for ensuring the process of personal professional development and reflection of teachers using interactive platforms, virtual simulations, multimedia resources, and electronic courses are also considered.*

The modern education system requires the active use of rapidly developing digital technologies. In particular, the process of training future educators in the field of preschool education includes not only the acquisition of theoretical knowledge, but also the development of practical skills, the formation of creative and innovative approaches. Since future educators play a key role in the intellectual, social, and emotional development of children in their professional activities, the combination of their professional qualities, knowledge, skills, personal and professional qualities is the main factor determining the effectiveness of the educational process.

Digital educational tools, virtual simulations, interactive platforms, multimedia resources, AR/VR technologies, and electronic courses are effective tools for enriching the pedagogical process, strengthening theoretical knowledge, forming practical skills, and ensuring personal professional development through pedagogical reflection. Studies show that the targeted and systematic integration of digital technologies into the pedagogical process allows increasing the professional competence of future educators, developing their methodological training, and forming the ability to apply innovative approaches.

The issue of forming the professional qualities of future preschool educators is one of the urgent directions in modern pedagogical research. A number of foreign and domestic scientists have conducted research on this topic.

In his scientific work "The Cambridge Handbook of Multimedia Learning," Richard E.M. analyzed the effectiveness of multimedia tools in the pedagogical process. Mayer argues that digital tools can reinforce theoretical knowledge and develop practical skills.[1]

In his scientific work "Media Education: Literacy, Learning and Contemporary Culture," David Buckingham studied the issues of forming creative thinking and innovative approaches of teachers using media and digital tools[2].

J.Staneviciene, R. Paulauskas, and I. Zilinskaite in their article "Digital Competence in Early Childhood Education: Pedagogical Approaches and Tools" show the methodological aspects of developing the professional competence of future educators using digital tools[3].

In the study "Online Learning Platforms and Teacher Professional Development," L. Namle studied the influence of online platforms and electronic courses on the personal professional development of teachers and the process of professional growth[4].

In the scientific work "Virtual Simulations for Teacher Training in Early Childhood Education," L. Zou shows that virtual simulations are an effective tool in the formation of practical skills of teachers[5].

M.Juraev conducted research on the methodology for the development of professional competence of preschool education teachers in the conditions of Uzbekistan. The study confirms the effectiveness of the integrated use of digital educational tools in increasing the professional potential of teachers[6].

R. Kuchkarov in his work "Pedagogical Qualifications and Digital Educational Tools" studied the importance of modern digital resources in the development of practical skills of teachers[7].

The integrated use of digital educational tools in the formation of professional qualities of future preschool educators is of strategic importance in the modern pedagogical process. Studies show that digital tools are highly effective in strengthening the theoretical knowledge of teachers, developing practical skills, forming creative and innovative approaches, and ensuring personal professional development.

Foreign studies show that interactive and multimedia resources are an important tool in the formation of professional qualities of teachers. Virtual simulations allow teachers to manage complex pedagogical situations in a safe environment and gain practical experience. Electronic courses, online platforms, and multimedia resources serve the development of independent thinking, analytical skills, and reflection processes of teachers.

Local studies confirm the effective integration of digital educational tools into the pedagogical process in the conditions of Uzbekistan. Research shows that AR/VR technologies, interactive lesson resources, and gamification contribute to the development of creative and innovative approaches, methodological reflection, and professional competence of teachers.

As a result of the discussion, the following main pedagogical aspects are identified:

1. Harmonious development of theoretical knowledge and practical skills: Digital tools allow teachers, along with strengthening theoretical knowledge, to form practical skills in real pedagogical situations.

2. Pedagogical reflection and personal professional development: Electronic portfolios, virtual seminars, and online monitoring allow teachers to analyze their activities, identify strengths and weaknesses, and ensure personal professional growth.

3. Implementation of innovative approaches: multimedia, AR/VR technologies and gamification allow teachers to increase creativity, develop and implement new teaching methods.

4. Individualization and adaptive learning: Digital tools create the opportunity to individualize the pedagogical process and adapt it to the developmental needs of children.

The discussion also shows that the effective use of digital tools depends on the technological literacy and methodological competence of teachers. Therefore, the synergistic use of methodological approaches and digital tools is of great importance in creating a mechanism for the formation of professional qualities of future educators.

In conclusion, digital educational tools play an important role in the formation of professional qualities of future preschool educators, as they strengthen the theoretical knowledge of teachers, develop practical skills, form creative and innovative approaches, and ensure personal professional development. Studies show that virtual simulations, interactive platforms, multimedia resources, and electronic courses allow organizing the pedagogical process in an interactive, innovative, and individualized form. At the same time, the methodological training and technological literacy of teachers are the main factor in the successful use of digital tools and the process of developing professional qualities. As a result, the targeted integration of digital educational tools into the pedagogical process manifests itself as the most effective strategy for the development of professional competence of future educators and effective support for the individual developmental needs of children..

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