

DIGITAL TRANSFORMATION OF EDUCATIONAL ACTIVITY IN THE CONTEXT OF DIGITAL EDUCATION: A TRANSFORMATIONAL APPROACH

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Abstract. This article examines the possibilities of applying a transformational approach to educational activity in the context of digital education. The study analyzes the pedagogical, psychological, and technological foundations of organizing educational processes in a digital environment. The transformational approach is interpreted as a mechanism for qualitative changes in students’ values, worldview, social responsibility, and digital culture. The research substantiates the role of digital platforms, interactive technologies, virtual communication environments, and artificial intelligence tools in enhancing educational effectiveness. The findings demonstrate that a transformational approach contributes to the development of students’ independent thinking, civic responsibility, digital ethics, and social-emotional competencies.

Keywords: digital education, educational activity, transformational approach, digital pedagogy, digital competence, educational technologies, digital citizenship, social-emotional competence.

Introduction

The rapid development of information technologies and the expansion of the digital educational environment have significantly transformed the nature, content, and methods of educational activity. Today, educational institutions are expected not only to provide knowledge but also to cultivate students’ spiritual values, social responsibility, critical thinking, and digital culture.

In the context of digital education, traditional educational methods are increasingly insufficient for addressing contemporary challenges. Therefore, the transformational approach has emerged as an innovative pedagogical strategy aimed at creating profound changes in learners’ cognitive, emotional, and behavioral spheres. Unlike traditional approaches, transformational learning encourages students to reconsider existing beliefs, construct new meanings, and develop adaptive competencies necessary for the digital era.

Educational activity in digital environments should not merely focus on information transmission; rather, it should facilitate the formation of responsible digital citizens capable of ethical behavior, collaboration, and lifelong learning. Consequently, the integration of transformational principles into educational practice has become one of the most pressing issues in modern pedagogical science.

Literature Review

The theoretical foundations of transformational learning were established by Jack Mezirow, who argued that meaningful learning occurs through critical reflection and the transformation of personal perspectives. According to Mezirow, educational experiences should stimulate learners to question assumptions and reconstruct their understanding of reality [1].

The works of Lev Vygotsky emphasized the social nature of learning and the importance of interaction in personal development. Digital technologies have expanded these

interactional opportunities by enabling collaborative and network-based learning environments [3].

Research conducted by Paulo Freire highlighted the importance of dialogue and learner-centered educational practices. Contemporary digital education environments provide new opportunities for implementing Freirean principles through interactive communication platforms and virtual communities [2].

Recent studies indicate that transformational educational practices positively influence students' digital literacy, social-emotional competence, self-regulation, and civic engagement. These findings support the necessity of integrating transformational approaches into educational activities conducted within digital learning ecosystems [4].

Methodology

The study employed theoretical analysis, comparative analysis, synthesis, and pedagogical modeling methods. Scientific literature related to digital education, transformational learning, educational technologies, and student development was systematically reviewed.

A conceptual model was developed to illustrate the relationship between digital educational environments and transformational educational outcomes.

The main part.

The rapid development of digital technologies in the education system is fundamentally changing not only the teaching process, but also the content, forms and methods of educational activities. In modern society, the formation of students' spiritual and moral values, civic responsibility, social activity and digital culture requires innovative pedagogical approaches in addition to traditional educational methods. In this regard, the transformational approach is emerging as one of the effective strategies for organizing educational activities in a digital educational environment [5].

The main goal of the transformational approach is not only to form knowledge and skills in a person, but also to create qualitatively new changes in his worldview, values, social position and behavior [6]. This approach serves the student's self-understanding, critical thinking, independent decision-making and the development of a sense of social responsibility. The digital educational environment creates broad opportunities that support these processes.

In the context of digital education, educational activities are not limited to traditional audiences. E-learning platforms, virtual communication tools, artificial intelligence technologies, social networks and online collaborative environments expand students' participation in the educational process. In such an environment, students not only gain knowledge, but also gain social experience through various social projects, virtual discussions, analysis of problem situations, online volunteering and team activities [7].

Reflection is of particular importance in educational activities organized on the basis of a transformational approach. Students begin to understand their strengths and weaknesses by analyzing their thoughts, views and actions [8]. Electronic portfolios, online diaries, reflective blogs and interactive forums maintained using digital tools increase the effectiveness of this process [13]. As a result, the student learns to independently determine his own path of personal development.

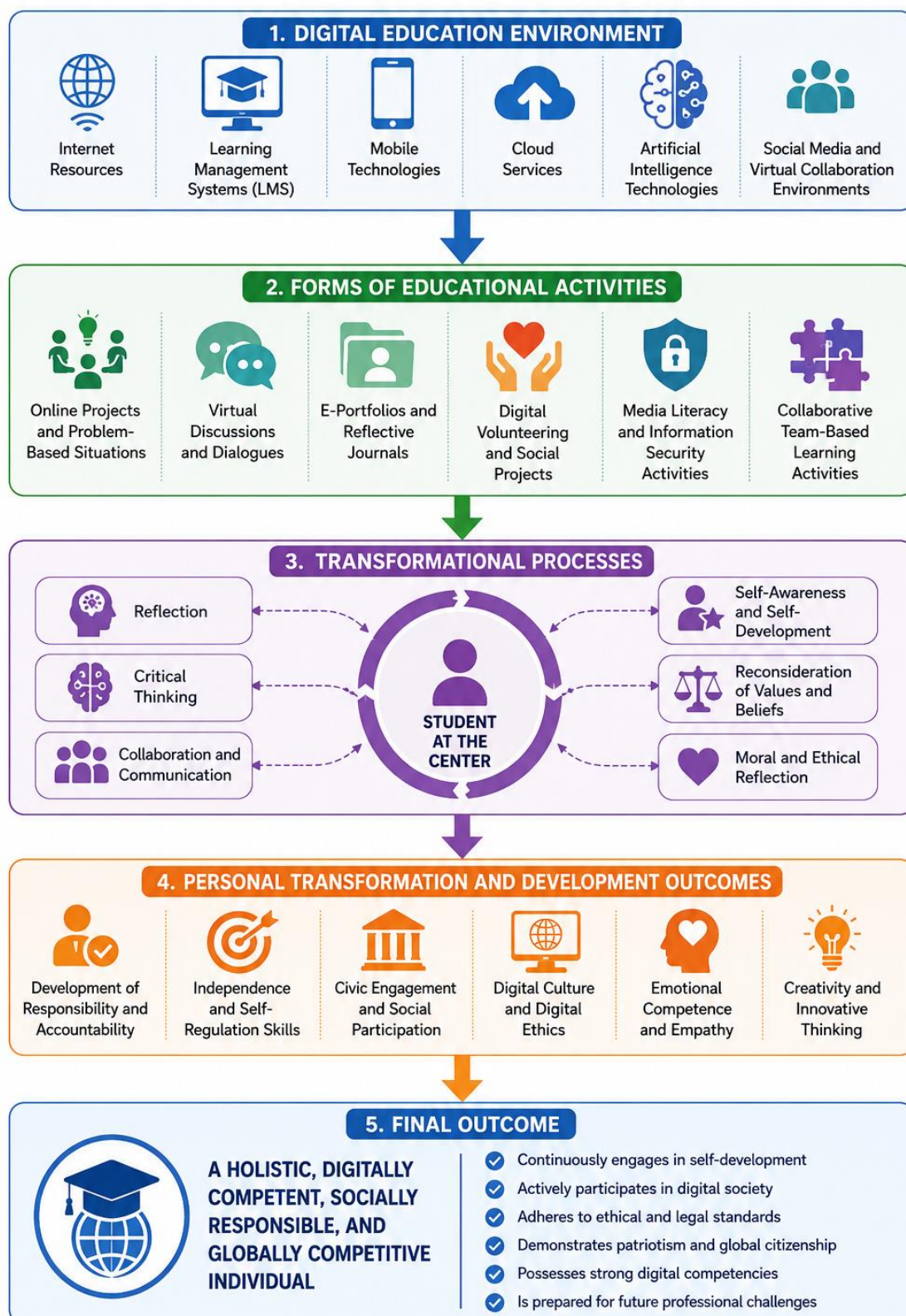
“Pedagogik ta’lim va tarbiya transformatsiyasida fundamental, amaliy va innovatsion tadqiqotlarning konseptual asoslari” mavzusidagi Xalqaro ilmiy-amaliy anjuman materilalari to’plami



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TRANSFORMATIONAL APPROACH-BASED MODEL OF EDUCATIONAL ACTIVITY IN THE DIGITAL EDUCATION ENVIRONMENT



**Figure 1. Transformational approach-based model of educational activity
in the digital educational environment**

This model demonstrates that the digital education environment serves as the foundation for organizing educational activities through modern technological tools and platforms. These activities facilitate transformational processes that encourage students to critically reflect on their experiences, reconstruct their values, and develop self-awareness. As a result, learners acquire essential twenty-first-century competencies, including digital literacy, social responsibility, emotional intelligence, and innovative thinking. Ultimately, the model contributes to the formation of a well-rounded individual capable of active participation in both local and global digital societies [9].

The transformational approach also serves to develop digital citizenship competencies in students. Since most young people today are actively involved in the information space, one of the important tasks is to form in them the skills of information security, media literacy, Internet ethics and responsible digital behavior. The transformational model of educational activity ensures the adaptation of students to the requirements of modern society by developing these aspects [10].

In addition, collaborative projects organized in a digital environment develop students' communicative competence, leadership skills and teamwork skills. The opportunity to collaborate virtually with peers from different regions and countries enriches the experience of intercultural communication and contributes to the formation of qualities such as tolerance, forbearance and global thinking.

In general, the transformational approach to educational activity in the context of digital education is manifested as a comprehensive pedagogical system that ensures the intellectual, spiritual, social and emotional development of the student [11]. Through this approach, educational activity is enriched in content, integrated with modern technologies and becomes an effective tool serving the personal and professional development of students [12].

Conclusion

The rapid expansion of digital technologies has fundamentally transformed the organization and implementation of educational activities within modern educational institutions. In the context of digital education, educational work is no longer limited to traditional face-to-face interactions; instead, it extends to virtual platforms, online communities, collaborative projects, and technology-enhanced learning environments. These changes necessitate the adoption of innovative pedagogical approaches capable of addressing the intellectual, social, emotional, and moral development needs of learners in the digital age.

The findings of this study demonstrate that the transformational approach provides an effective framework for enhancing educational activities in digital environments. By emphasizing critical reflection, active participation, self-awareness, collaboration, and value transformation, this approach facilitates meaningful personal growth and encourages learners to become responsible, self-regulated, and socially engaged individuals. Digital technologies serve not only as instructional tools but also as catalysts for transformative educational experiences that promote lifelong learning and personal development.

Furthermore, the proposed transformational model highlights the interconnected relationship between the digital education environment, educational activities, transformational processes, and developmental outcomes. The integration of digital



platforms, artificial intelligence tools, reflective practices, and collaborative learning opportunities contributes to the development of essential twenty-first-century competencies, including digital literacy, digital citizenship, emotional intelligence, creativity, and civic responsibility.

In conclusion, the transformational approach should be regarded as a strategic direction for the modernization of educational activities in digital education, ensuring not only academic achievement but also the holistic development of learners as active and responsible members of the digital world.

Used literature:

1. Jack Mezirow (1991). *Transformative Dimensions of Adult Learning*. San Francisco: Jossey-Bass Publishers.
2. Paulo Freire (2005). *Pedagogy of the Oppressed* (30th Anniversary Edition). New York: Continuum.
3. Lev Vygotsky (1978). *Mind in Society: The Development of Higher Psychological Processes*. Cambridge: Harvard University Press.
4. John Dewey (1938). *Experience and Education*. New York: Macmillan.
5. Peter Senge (2006). *The Fifth Discipline: The Art and Practice of the Learning Organization*. New York: Doubleday.
6. Azimjanovich, J. S. (2026, January). ENHANCING EDUCATIONAL AND ETHICAL VALUES OF PRE-SERVICE TEACHERS IN A DIGITAL EDUCATION CONTEXT. In *London International Monthly Conference on Multidisciplinary Research and Innovation (LIMCMRI)* (Vol. 3, No. 2, pp. 453-457).
7. Azimjanovich, J. S. (2026, January). DEVELOPING EDUCATIONAL AND MORAL VALUES OF FUTURE TEACHERS IN A DIGITAL EDUCATIONAL ENVIRONMENT. In *International Conference on Multidisciplinary Sciences and Innovations (ICMSI)* (Vol. 1, No. 2, pp. 52-55).
8. TECHNOLOGIES FOR DEVELOPING PERSONAL AND SOCIAL COMPETENCIES OF FUTURE EDUCATORS IN THE CONTEXT OF DIGITAL EDUCATION (Jamaldinov Sarvar Azimjanovich, Trans.). (2026). *London International Monthly Conference on Multidisciplinary Research and Innovation (LIMCMRI)*, 3(2), 241-244. <https://worldsciencepub.com/index.php/lmc/article/view/4467>
9. Azimjanovich, J. S. (2025, December). RAQAMLI TRANSFORMATSIYA DAVRIDA PEDAGOGIK TARBIYA JARAYONINING METODIK YANGILANISHLARI. In *Partner conferences of the International Scientific Journal Research Focus* (Vol. 1, No. 1, pp. 265-271).
10. Azimjanovich, J. S. (2025). RAQAMLI TA'LIM SHAROITIDA TARBIYAVIY FAOLIYATNING O'ZIGA XOS JIHATLARI. *Shokh Articles Library*, 1(1).
11. Jamaldinov, S. A. (2024). THE ROLE OF THE FAMILY IN FORMING ENTREPRENEURIAL MOTIVATION. *Educational Research in Universal Sciences*, 3(4), 404-409.
12. Azimjanovich, J. S. (2025). MAKTAB VA MAKTABGACHA TA'LIM TASHKILOTLARIDA INKLYUZIV TA'LIMNI TASHKIL ETISH. *Research Focus*, 4(Special Issue 2), 249-256.
13. Azimjanovich, J. S. (2025). DIGITAL UPBRINGING CONCEPTS IN INTERNATIONAL PRACTICE. *SHOKH LIBRARY*, 1(11).
14. Azimjanovich, J. S. (2024). OILA MUHITIDA TADBIRKORLIK KO'NIKMALARINI RIVOJLANTIRISH STRATEGIYALARI. *ZAMONAVIY TA'LIMDA FAN VA INNOVATSION TADQIQOTLAR JURNALI*, 2(17), 111-122.