

6.Nykyporets, S. S., Stepanova, I. S., Hadaichuk, N. M., Medvedieva, S. O., & Herasymenko, N. V. (2023). Ways of improving the professional competence of foreign language teachers of a technical university in the conditions of blended learning. *Science and technology*. № 4, 162-179. DOI: [https://doi.org/10.52058/2786-6025-2023-4\(18\)-162-179](https://doi.org/10.52058/2786-6025-2023-4(18)-162-179).

7.VNTU. (2018). A new stage of long-term cooperation “CDM group” and VNTU: Greater opportunities and real prospects. *VNTU News.*, URL: <https://vntu.edu.ua/en/news/979-2018-09-25-17-35-07.html> (Accessed 04.10.2024).

Petrenko V.Yu.

*Kyiv National University of Technologies and Design
(Kyiv, Ukraine)*

THE NEW ERA OF EDUCATION: EXPLORING THE IMPACT OF DISTANCE AND BLENDED LEARNING MODELS

The evolution of education in recent years has undergone a radical transformation, propelled by advancements in technology and a shift in how learning is perceived. The rise of distance and blended learning models has redefined traditional educational frameworks, offering new opportunities and presenting unique challenges. These models, which combine elements of both online and in-person learning, have sparked widespread debate regarding their effectiveness, accessibility, and impact on students and educators alike.

Distance learning, often conducted through virtual classrooms, has gained significant traction since the onset of the COVID-19 pandemic (Hodges et al., 2020, p. 5). The convenience of learning from any location and the flexibility it offers have made education accessible to a broader audience, breaking down geographical and economic barriers. Students who previously faced challenges in accessing quality education can now learn at their own pace, using resources tailored to individual needs. However, distance learning also presents issues such as the digital divide, where students without reliable internet access or appropriate technology are disadvantaged. Moreover, the lack of face-to-face interaction may hinder the development of interpersonal skills and reduce the sense of community that traditional education provides.

One of the key strengths of distance learning is its ability to cater to non-traditional students, such as working professionals and parents, who may struggle to attend regular classes due to time constraints. The flexibility offered by distance learning allows these individuals to balance their education with other responsibilities. Additionally, distance learning has paved the way for lifelong learning, enabling people to continue their education and update their skills in response to changing job market demands. This adaptability is crucial in today's rapidly evolving economy, where new technologies and industries are constantly emerging.

However, distance learning is not without its drawbacks. The digital divide remains a significant issue, with many students lacking access to reliable internet or suitable devices. This disparity can result in unequal learning opportunities, ultimately widening the gap between privileged and underprivileged students.

Furthermore, the absence of direct interaction with teachers and peers can lead to feelings of isolation and reduced motivation. The importance of social interaction in the learning process cannot be understated, as it fosters collaboration, critical thinking, and the development of communication skills.

Blended learning, which integrates both online and face-to-face elements, seeks to address some of the limitations of distance learning while retaining its benefits. By combining in-person teaching with digital resources, blended learning creates a more flexible and enriched educational environment. Teachers can focus on interactive activities during in-person sessions, while students can absorb theoretical knowledge online at their own pace. This model has proven effective in accommodating diverse learning styles and enabling a more personalized approach to education.

Blended learning also encourages the use of innovative teaching methods, such as flipped classrooms, where students review content online before attending in-person sessions for discussions and practical activities. This approach allows educators to maximize the value of face-to-face time, fostering a deeper understanding of the subject matter. Moreover, blended learning can help bridge the gap between traditional and modern educational practices, providing a balanced approach that leverages the strengths of both (Boelens et al., 2017, p. 10).

The war in Ukraine has further highlighted the importance of distance and blended learning models (Anderson & Dron, 2011, p. 85). In a situation where schools and universities have been disrupted, and many students have been displaced, these models have played a critical role in ensuring the continuity of education. Distance learning has enabled students to access educational resources despite being away from their usual learning environments, while blended learning has provided opportunities for both online and in-person engagement where feasible. The adaptability of these models has proven invaluable in maintaining educational progress during a time of crisis, emphasizing the need for resilient and flexible educational systems capable of withstanding unforeseen challenges.

Despite the numerous advantages of distance and blended learning models, challenges remain in ensuring quality and engagement. Effective implementation requires investment in infrastructure, professional development for educators, and a commitment to maintaining high standards of education. Educators need to be trained not only in the use of digital tools but also in creating engaging online content that encourages active learning. Additionally, there is a need to consider students' mental well-being, as prolonged periods of remote learning can lead to feelings of isolation and decreased motivation.

Recent studies, such as Anderson and Dron (2011), have highlighted the importance of integrating advanced digital tools, such as artificial intelligence and adaptive learning platforms, to enhance the effectiveness of distance and blended learning. These tools can provide personalized learning experiences, identify areas where students need additional support, and offer real-time feedback, thereby improving student outcomes. Moreover, the role of virtual reality and augmented reality in creating immersive learning environments has been increasingly recognized, providing students with experiential learning opportunities that were

previously unattainable in a traditional classroom setting (Garrison & Vaughan, 2008, p. 45).

Artificial intelligence (AI) has the potential to revolutionize distance and blended learning by providing tailored educational experiences for each student (Moore & Kearsley, 2012, p. 112). AI-powered platforms can analyze students' progress and adapt the learning material to suit their individual needs, thereby promoting a more effective and efficient learning process. For instance, AI-driven chatbots can offer instant feedback and support, helping students overcome challenges without having to wait for a teacher's response. This level of personalization is crucial for maintaining student engagement and motivation, especially in a remote learning context.

Furthermore, the integration of virtual reality (VR) and augmented reality (AR) technologies has opened new avenues for experiential learning. These technologies can create immersive environments that allow students to explore complex concepts more interactively and engagingly. For example, medical students can use VR simulations to practice surgical procedures, while engineering students can explore intricate machinery in a virtual space. Such hands-on experiences are invaluable in helping students develop practical skills and gain a deeper understanding of the subject matter.

Another important aspect of blended learning is the role of collaborative tools, such as discussion forums, video conferencing, and group projects, in fostering a sense of community among students. These tools enable students to interact with their peers and instructors, share ideas, and work together on assignments, thereby replicating some of the social aspects of traditional education. Collaborative learning is essential for developing critical thinking, problem-solving, and communication skills, which are highly valued in both academic and professional settings.

In conclusion, distance and blended learning models are reshaping the educational landscape, offering both opportunities and challenges. The flexibility and accessibility these models provide are invaluable, especially in times of crisis. However, careful consideration must be given to address the drawbacks, such as the digital divide and the potential impact on social development. The integration of advanced technologies, such as AI, VR, and AR, has the potential to enhance the learning experience and make education more engaging and effective. As education continues to evolve, it is crucial to strike a balance between innovation and inclusivity to ensure that all students can benefit from these emerging models. By addressing the challenges and leveraging the strengths of distance and blended learning, we can create a more equitable and dynamic educational system that meets the needs of all learners.

REFERENCES

1. Anderson, T., & Dron, J. (2011). Three generations of distance education pedagogy. *International Review of Research in Open and Distributed Learning*, 12(3), 80-97. Available at <http://www.irrodl.org/index.php/irrodl/article/view/890/1663>

2.Boelens, R., De Wever, B., & Voet, M. (2017). Four key challenges to the design of blended learning: A systematic literature review. Educational Research Review, 22, 1-18. Available at <https://www.sciencedirect.com/science/article/abs/pii/S1747938X17300258>

3.Garrison, D. R., & Vaughan, N. D. (2008). Blended learning in higher education: Framework, principles, and guidelines. Jossey-Bass. Available at https://books.google.com.ua/books/about/Blended_Learning_in_Higher_Education.html?id=2iaR5FOsoMcC&redir_esc=y

4.Hodges, C., Moore, S., Lockee, B., Trust, T., & Bond, A. (2020). The difference between emergency remote teaching and online learning. Educause Review. Available at <https://er.educause.edu/articles/2020/3/the-difference-between-emergency-remote-teaching-and-online-learning>

5.Moore, M. G., & Kearsley, G. (2012). Distance education: A systems view of online learning (3rd ed.). Cengage Learning. Available at https://books.google.com.ua/books/about/Distance_Education_A_Systems_View_of_Onl.html?id=8A0KzgEACAAJ&redir_esc=y

Алексеева С. В.

*Інститут педагогіки НАПН України
(Київ, Україна)*

ОСОБЛИВОСТІ ТРАНСФОРМАЦІЙНИХ ЗМІН ПРОФІЛЬНОЇ СТАРШОЇ ШКОЛИ

Освіта є державним пріоритетом, що забезпечує інноваційний, соціально-економічний і культурний розвиток суспільства. Освіта в Україні будується за принципом рівних можливостей для всіх. Окреслимо сучасні особливості трансформаційних змін профільної старшої школи, що закладені в Державному стандарті профільної середньої освіти.

Державний стандарт профільної середньої освіти затверджено постановою Кабінету Міністрів України від 25 липня 2024 р. № 851. У цьому Державному стандарті окреслено вимоги до обов'язкових результатів навчання здобувачів профільної середньої освіти, загальний обсяг їх навчального навантаження, розподілений за освітніми галузями, структуру та зміст профільної середньої освіти.

Цей Державний стандарт визначає мету профільної середньої освіти – розвиток особистості здобувачів освіти шляхом утвердження у них української національної та громадянської ідентичності та формування компетентностей, необхідних для їх життєвої стійкості, самостійності, відповідальності, комунікації та взаємодії з іншими особами, соціалізації, активної громадянської позиції на основі поваги до прав людини, духовних цінностей українського народу, національної самобутності, оборонної свідомості, громадянської стійкості, патріотизму, поваги до державних символів, державної мови, суспільно-державних (національних) цінностей України, розуміння їх важливості для становлення держави; підприємливості, свідомого вибору подальшого життєвого шляху, освіти протягом життя, трудової діяльності та самореалізації; дотримання принципів гендерної рівності; виховання у здобувачів освіти самоповаги і поваги до інших, відповідального ставлення до довкілля, що базується на науковому світогляді та принципах сталого розвитку.