

**PEDAGOGICAL FOUNDATIONS FOR IMPLEMENTING A HYBRID
TEACHING MODEL IN THE PEDAGOGICAL EDUCATION PROCESS**

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ANNOTATSIYA:

This article analyzes the theoretical and practical aspects of implementing a hybrid (blended) teaching model in the pedagogical education process. The essence, advantages, and didactic possibilities of hybrid learning, as well as the conditions for its effective organization, are explained. In addition, the changes that occur in the activities of teachers and students are justified from a pedagogical point of view.

Introduction

The rapid development of modern information and communication technologies is fundamentally transforming the education system. Especially after the pandemic period, the importance of digital education has significantly increased. As a result, the hybrid (blended) teaching model, which integrates traditional teaching methods with digital tools, has

become a pressing issue. Implementing this model in the pedagogical education process has brought teacher-student interaction to a new level, ensures the individualization of the learning process, and enhances the effectiveness of education.

Hybrid learning is the integration of traditional (in-class) and distance (online) teaching formats. In this model, part of the instruction takes place with the participation of the teacher, while the remaining part is carried out through digital platforms (Moodle, Google Classroom, Zoom, Microsoft Teams, etc.). From a pedagogical perspective, hybrid learning is based on the following didactic principles:

The principle of flexibility – considering the learner's individual pace and learning style;

The activity-oriented principle – the learner becomes an active participant;

The principle of increasing motivation – enhancing interest in learning through interactive and multimedia tools;

The principle of feedback – enabling real-time communication and monitoring of learning outcomes.

Today, due to the increasing academic workload in pedagogical educational institutions and the growing need to develop digital competencies, the introduction of the hybrid model has become a necessity. In this process, the following factors play an important role:

Mastering pedagogical technologies – developing teachers' skills in effectively using modern online platforms;

Increasing students' learning activity – enhancing critical thinking through independent research, online assignments, and problem-based situations;

Improving the quality of education and monitoring systems – analyzing learning outcomes through digital assessment, tests, and rating systems.

Online platforms provide convenience for every teacher, enabling student monitoring and allowing learners to complete online independent tasks with ease. These tasks encourage students to conduct independent research, complete online assignments within the given deadlines, and—most importantly—enhance their critical thinking skills. Additionally, the hybrid learning system has created the most favorable conditions for monitoring the learning process.

The hybrid teaching model offers learners significant flexibility in terms of time and place: lessons can be conducted online, while face-to-face sessions are also preserved. This is especially important for students who live in different geographic locations or have scheduling constraints. Through the online component, students can revisit lesson materials

and study independently; offline time, in turn, can be devoted to discussions, group work, and in-depth practical activities. This approach accommodates each student's individual learning pace and actively engages them in the learning process.

Studies show that hybrid teaching can improve student engagement, motivation, and academic outcomes. For instance, a systematic literature review indicates that the hybrid model is more flexible and engaging than purely online or fully offline formats. The integration of offline and online elements also helps optimize the learning process.

The hybrid model allows the combination of online and offline resources: video lectures, digital platforms, interactive forums, group discussions, and offline practical sessions. This provides students with access to diverse media and materials, making the educational process more dynamic and meaningful. In the hybrid model, students not only learn academic subjects but also develop skills such as working with online platforms, distance learning, and conducting independent research. Research also notes that hybrid teaching helps improve students' digital and computer literacy.

The hybrid model integrates the strengths of traditional face-to-face and online teaching, accommodating various learning styles. Considering students' individual needs, learning pace, and capabilities aligns with modern pedagogical principles. By harmonizing the technological and traditional learning environments, collaboration between teacher and student is strengthened, and learner engagement increases. Innovative methods, interactive tools, and opportunities for independent learning in the teaching process hold significant pedagogical value.

Hybrid education, alongside its many advantages, also presents certain challenges. While the flexibility and convenience of the learning process increase students' adaptability and improve the monitoring of assigned tasks, it simultaneously contributes to the development of information culture and digital literacy among learners. In response to the question, "How does this benefit students?"—it is evident that hybrid learning enhances media literacy and information culture, enabling learners to reach a level comparable to that of European educational standards. For teachers, it creates opportunities to test and implement innovative methods. It is well known that in European countries, teachers employ innovative teaching methods in every lesson to effectively deliver knowledge.

The first problem associated with online platforms is insufficient technological infrastructure, followed by low levels of digital competence among teachers. The difficulty teachers face in using newly emerging innovative technologies is not surprising. Modern

technologies are increasingly based on artificial intelligence, which can be challenging for individuals to fully comprehend. To address such issues, it is necessary to create appropriate pedagogical conditions for the effective implementation of the hybrid teaching model.

First and foremost, digital pedagogical training should be organized to improve teachers' media literacy. These training programs should teach methods of using new innovative technologies. Enhancing technological infrastructure—such as ensuring high-speed internet access and providing modern multimedia tools—plays a key role. Overall, hybrid learning aims to consistently encourage student engagement, improve rating and project-based assessments, and ensure the effective functioning of the online evaluation system.

Conclusion

The hybrid teaching model serves as an important factor in improving the quality of education, developing students' independent learning skills, and forming their digital competencies at the modern stage of pedagogical education. Its successful implementation requires the integration of pedagogical, technological, and organizational aspects. Introducing the hybrid teaching system into the pedagogical education process is one of the pressing issues in the era of digital transformation.

Research findings show that the hybrid learning model, by combining the strengths of traditional and distance learning, contributes to meeting students' individual learning needs, developing independent study skills, and enhancing the quality and effectiveness of education. To implement this system effectively, the pedagogical, technological, and organizational foundations must be thoroughly developed. Improving teachers' digital competencies, adapting curricula, and using interactive methods and electronic resources efficiently are essential factors for the successful application of hybrid teaching.

In conclusion, the hybrid learning system not only modernizes the educational process but also fosters effective pedagogical collaboration between teachers and students, supports the individualization of learning, and serves as a promising approach to improving educational quality. The hybrid learning model requires new pedagogical and digital competencies from teachers while encouraging students to engage in independent research, critical thinking, and effective use of information technologies. This approach promotes the integration of innovative teaching methods, increases learning motivation, and contributes to the improvement of educational quality and outcomes.

The hybrid teaching model represents an important direction for the future of education. Its scientifically grounded implementation in pedagogical education creates conditions for

the comprehensive development of learners, enhances teachers' professional skills, and accelerates the digital transformation of the education system.

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