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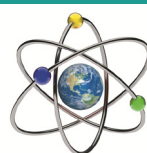
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- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

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Pedagogika, psixologiya fanlariga ixtisoslashgan ilmiy jurnal



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BLENDED EDUCATIONAL TECHNOLOGIES IN HIGHER EDUCATION: A SYSTEMATIC ANALYSIS OF FOREIGN RESEARCH

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Abstract: This article presents a systematic review of national scholarly publications addressing the implementation and effectiveness of blended learning technologies in higher education. Using systematic review procedures, including defined inclusion criteria, thematic categorization, and comparative analysis, the study examines how blended learning technologies have been integrated into university-level instruction. Particular attention is paid to instructional design principles, digital learning environments, student engagement, and competency-based outcomes. The review reveals that blended learning contributes to increased learner autonomy, improved academic performance, and the development of digital and twenty-first-century competencies when appropriately designed and implemented.

Key words: blended learning; higher education; educational technologies; systematic review; instructional design; digital learning environment; student engagement; national research.

Annotatsiya: Ushbu maqolada oliy ta'limda aralash ta'lim (blended learning) texnologiyalarini joriy etish va samaradorligini o'rganishga bag'ishlangan milliy ilmiy nashrlarning tizimli sharhi taqdim etilgan. Tizimli sharh usullari, jumladan, aniq belgilangan tanlov mezonlari, mavzuga oid kategoriyalash va taqqosiy tahlil orqali tadqiqot aralash ta'lim texnologiyalarining universitet darajasidagi ta'lim jarayoniga qanday integratsiya qilinganini ko'rib chiqadi. Maxsus e'tibor o'quv dizayni prinsiplari, raqamli ta'lim muhitlari, talabalarning jalb qilinishi va kompetensiyaga asoslangan natijalarga qaratilgan. Sharh shuni ko'rsatadiki, aralash ta'lim to'g'ri loyihalashtirilgan va amalga oshirilgan taqdirda o'quvchilarning mustaqilligini oshirishga, akademik natijalarni yaxshilashga hamda raqamli va XXI asr kompetensiyalarini rivojlantirishga yordam beradi.

Kalit so'zlar: aralash ta'lim (blended learning); oliy ta'lim; ta'lim texnologiyalari; tizimli sharh; o'quv dizayni; raqamli ta'lim muhitlari; talabalarning jalb qilinishi; milliy tadqiqotlar.

Аннотация: В данной статье представлен систематический обзор национальных научных публикаций, посвящённых внедрению и эффективности технологий смешанного обучения (blended learning) в высшем образовании. С использованием процедур систематического обзора, включая чётко определённые критерии отбора, тематическую категоризацию и сравнительный анализ, исследование рассматривает, каким образом технологии смешанного обучения интегрируются в образовательный процесс на уровне университетов. Особое внимание уделяется принципам педагогического проектирования, цифровым образовательным средам, вовлечённости студентов и результатам обучения, основанным на компетентностном подходе. Обзор показывает, что смешанное обучение способствует повышению автономности обучающихся, улучшению академической успеваемости, а также развитию цифровых и компетенций XXI века при условии его правильного проектирования и реализации.

Ключевые слова: смешанное обучение (blended learning); высшее образование; образовательные технологии; систематический обзор; педагогическое проектирование; цифровая образовательная среда; вовлечённость студентов; национальные исследования.

INTRODUCTION

At present, Coursera is regarded as one of the leading platforms in the field of online education. The total number of learners enrolled in its various courses amounts to approximately three million users. The platform was established in 2012 by faculty members of Stanford University with the aim of disseminating educational resources and providing free online courses via the Internet. The courses offered on the platform constitute comprehensive educational programs developed by leading higher education institutions, including Princeton University, the California Institute of Technology, the University of Toronto, and others. These programs typically comprise video lectures accompanied by subtitles and textual transcripts, practical assignments, quizzes, and final examinations. Upon the successful and timely completion of all course requirements, learners are eligible

to receive a certificate confirming the acquisition of relevant knowledge and skills. Such certification may serve not only as formal evidence of learning outcomes but also as a valuable component of an individual's academic and professional profile. According to Time magazine's 2012 ranking, Coursera was awarded the title of "Best Educational Website of the Year" [6].

The course completed by the author of the present study focused on blended learning as an educational technology. It addressed the conceptual definition of blended learning, examined its core components, outlined existing models, and analyzed their practical implementation through a detailed, stage-by-stage consideration of methodological, technological, and financial aspects. The course aimed to explore several key issues, including the transformation of student and instructor roles within a blended learning environment, the necessary modifications to educational systems and curricula, and the learning processes most closely aligned with blended learning strategies. The course syllabus covered a range of thematic areas, including: models of blended learning; the role of the student; the role of the instructor; institutional-level changes; learning space organization and software and hardware infrastructure; pilot implementation of innovative models.

The term "blended learning" refers to an educational system that integrates traditional face-to-face instruction with independent, technology-mediated learning conducted in a distance format. In this approach, new content essential for all learners is typically introduced in a conventional classroom setting, while consolidation and deeper comprehension occur autonomously through interactive learning activities. The instructor oversees the learning process and ensures the coherence of course content; however, their role is largely limited to presenting foundational material and providing consultative support during task completion. Blended learning places a strong emphasis on collaborative learning and learner interaction, promoting cooperation both in group projects and in peer assessment of individually completed tasks. Among the principal advantages of blended learning are the increased interactivity of the educational process, the opportunity for learners to independently regulate the pace and level of task complexity, and a reduction in instructional workload.

Blended learning incorporates several essential components. First, it is learner-centered, taking into account each student's prior knowledge and experience when designing individualized learning trajectories, thereby enabling personalized and self-paced knowledge development. Second, it emphasizes the acquisition and refinement of practical skills and competencies, which serves as an indicator of successful course completion. Third, it fosters learner autonomy in organizing learning activities, selecting work formats, and managing assignment schedules. Fourth, it is oriented toward the development of interpersonal relationships among learners, enhancing their capacity for cooperation and mutual support through structured activities such as peer assessment, forum participation, and online discussions [1].

LITERATURE REVIEW

An analysis of international and national research made it possible to identify the principal "problem areas" and, consequently, the key directions in the development of the theory and practice of blended learning. The first direction is associated with the formation of the structure and boundaries of the relevant conceptual and terminological field. Both international and domestic scholars emphasize the need to elaborate precise definitions of such terms as blended learning, hybrid learning, distance learning, and blended educational technology, as well as to establish logical and lexical relationships among them. Foreign researchers are primarily focused on identifying the attributive characteristics of this pedagogical phenomenon, viewing blended learning as a simple combination of online and face-to-face instruction, their purposeful integration, or through formal indicators such as the proportion of time allocated to online and in-person learning and the presence of pedagogical control. As noted in a number of studies, the ongoing scholarly debate surrounding the concept of blended learning largely concentrates on the forms and degree of integration between digital technologies (including network and mobile technologies, digital educational resources, learning management systems, online courses, and similar tools) and traditional face-to-face instruction.

From our perspective, the terms blended learning and blended learning technology are definitional interconnected yet differ in their conceptual scope. The term blended learning refers to a specific mode of organizing the educational process that combines traditional and distance learning through the use of digital technologies. In contrast, blended educational technology is understood more broadly as a sequence of coordinated actions and operations carried out by teachers and learners to achieve defined educational goals through the integrated use of digital and traditional educational resources, tools, and communication channels.

The second direction focuses on identifying and refining the methodological foundations for the development of blended learning and on defining the theoretical basis for transforming traditional educational systems through the design of educational processes grounded in mechanisms of pedagogical and digital technology integration. This integration is examined with regard to different levels of implementation, including educational programs, academic modules, individual disciplines, and specific learning sessions. Such efforts are evident



in both international and domestic research. For instance, S. Hrastinski identified five fundamental conceptual approaches that outline the vectors of blended learning development:

- the inclusive concept, which interprets blended learning as a simple combination of face-to-face and online instruction;
- the quality-oriented concept, which emphasizes the enhancement of learning outcomes through deliberate integration of in-class and online components;
- the quantitative concept, which examines blended learning in terms of the proportion of instructional time and content allocated to traditional and online formats;
- the synchronization concept, which focuses on real-time learning organization through synchronous multi-media technologies such as video conferencing, web conferencing, and virtual reality;
- and the digital classroom concept, which explores the use of online technologies within face-to-face classroom instruction.

RESEARCH METHODOLOGY

Within the national pedagogical research community, particular relevance is attributed to issues related to defining the fundamental principles and regularities underlying the design and implementation of blended educational technologies, identifying mechanisms for the optimal integration of digital and traditional instructional technologies, substantiating invariant and variable structural components within blended learning models, and determining the factors that influence their effectiveness.

The third direction is represented by empirical and experimental studies that demonstrate the effectiveness of designing and implementing blended learning at various levels of educational organization, including the institutional level, as well as the level of individual modules or academic disciplines. This line of research is characterized by a wide range of research objects, such as the role of blended learning in improving academic performance (knowledge, skills, and competencies), supporting learners' personal development (emotional regulation and communication skills in educational problem-solving), and transforming the functions and roles of teachers within the educational process. However, its primary objective is the generalization of blended learning practices in order to identify a system of key factors that determine its effectiveness. Both international and domestic scholars agree that blended educational technologies make it possible to mitigate the limitations and enhance the advantages of both digital and traditional instructional approaches, thereby optimizing the management of the educational process at both programmatic and instructional levels.

The fourth direction encompasses research and development efforts aimed at identifying the theoretical foundations for systematizing blended learning models and developing classification frameworks. This direction is characterized by a diversity of approaches, which can be attributed to the multimodal educational potential of digital technologies, the multidimensional nature of the educational process conducted across traditional and digital learning environments, and the expansion of the roles and functional responsibilities of the main participants in the educational process—teachers and learners.

ANALYSIS AND RESULTS

Within the framework of the course, three models of blended learning were examined. The following section provides a detailed discussion of each model introduced during the course. The first model, referred to as the Station Rotation Model, involves organizing several learning “stations” within a single classroom. At these stations, students engage in diverse forms of learning activities, including traditional written tasks, oral interaction with instructors or peers, and computer-based work focused on information retrieval and the completion of online assignments. The primary objective for learners is to complete all assigned tasks by rotating between stations at an individually determined pace, thereby promoting learner autonomy and flexible time management.

The second model, known as the Lab Rotation Model, is designed to integrate classroom-based instruction with independent learning in a computer laboratory. In this model, instructors present new material and provide guidance or feedback in the classroom setting, while practical, application-oriented online learning activities are conducted in the computer lab. This approach enables a balanced combination of teacher-led instruction and technology-mediated independent practice.

The third model, the Flex Model, places particular emphasis on the development of students' self-directed learning skills. Instruction is organized around individually tailored tasks that correspond to each learner's level of preparedness and personal characteristics. Students work independently at computer workstations within a

laboratory environment and retain the flexibility to manage their learning process, including pausing their work for consultations with instructors or peers, rest, or alternative learning activities.

An analysis of the specific features of these models leads to the conclusion that blended learning technologies can be effectively implemented in the context of higher education institutions. Moreover, their application in universities appears especially justified and productive, as one of the primary objectives of contemporary higher education is the preparation of competent professionals capable of performing professional activities and engaging in continuous self-development. In developing an institutional model of blended learning for the higher education environment, it was determined that implementation should proceed in two sequential stages. The first stage involves familiarizing academic staff with the principles and practices of blended learning through professional development programs. The second stage focuses on the application of blended learning technologies in the instruction of discipline-specific courses for students. Having acquired a general understanding of blended learning and its advantages over traditional instructional methods, instructors subsequently pilot this approach in the educational process by employing a range of blended learning tools, methods, and models aligned with the objectives and content of specific academic disciplines.

Instructional formats consistent with blended learning strategies include online video lectures, webinar-based practical sessions, self-assessment systems, online consultations, and other digital learning activities. The adoption of blended learning leads to a substantial transformation of the roles of instructors and students within the educational process: instructors increasingly function as mentors and facilitators of learning, while students assume the role of active, self-directed participants, moderators, and executors of learning activities^{[10]; [12]}. The theoretical foundations of the course are presented through video lectures with an average duration of no more than fifteen minutes, which supports sustained learner attention and reduces cognitive fatigue. Moreover, the lectures are interactive and require active learner engagement through embedded questions, quizzes, and forum-based responses.

A further advantage of the project lies in the fact that course content is developed by highly qualified faculty from leading universities worldwide and delivered in foreign languages, characterized by a high level of academic discourse and linguistic quality, thereby contributing to learners' language development. Additionally, the program prioritizes collaborative learning through peer assessment, mutual feedback on assignments, forum discussions related to course content and peer support, and joint project work. These forms of interaction facilitate integration into the international academic community and promote professional networking with colleagues from different countries who share common academic interests.

Another significant benefit is the provision of free access to all course materials and the opportunity to obtain a certificate of completion from the Coursera platform. Participants may also opt for a verified certificate issued by the hosting university upon payment of a fee established by the respective institution. In conclusion, the analysis of the advantages of Coursera-based educational projects demonstrates that learning through massive open online courses within the modern educational paradigm constitutes an effective, practice-oriented, and innovative means of professional development, international academic communication, and enhancement of digital competence in professional activity.

CONCLUSION

Thus, based on the experience and potential applications of blended learning, it can be emphasized that within the framework of the contemporary educational paradigm, blended learning represents an innovative instructional system with several objective advantages. These include improvements in the quality of education and teaching efficiency, optimization of institutional resource utilization, enhancement of institutional competitiveness, and the creation of a positive and attractive image of the university for prospective students.

In evaluating the course and the Coursera platform as a whole, a significant positive educational impact of participation in an international project of this scale can be identified. This impact is attributed to several factors. First, the course belongs to the category of massive open online courses (MOOCs), which have gained global recognition due to the high academic rigor and innovative nature of the content delivered.

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- 13.00.00 Pedagogika fanlari
 - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
 - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
 - 13.00.03 Maxsus pedagogika
 - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
 - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
 - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
 - 13.00.07 Ta'limda menejment
 - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
 - 13.00.09 Ijtimoiy pedagogika
 - 07.00.00 Tarix fanlari
 - 19.00.00 Psixologiya fanlari
 - 01.00.00 Fizika-matematika fanlari
 - 02.00.00 Kimyo fanlari
 - 03.00.00 Biologiya fanlari
 - 09.00.00 Falsafa fanlari
 - 10.00.00 Filologiya fanlari
 - 11.00.00 Geografiya fanlari



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