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## **USING WHATSAPP MESSENGER IN THE PROFESSIONAL-ORIENTED TRAINING OF FUTURE LIBRARY, INFORMATION, AND ARCHIVAL STUDIES SPECIALISTS AT HIGHER TECHNICAL UNIVERSITIES**

*This article explores the purposeful integration of WhatsApp Messenger into the professionally oriented training of future specialists in the fields of library science, information studies, and archival affairs within the environment of higher technical education institutions. Rather than viewing WhatsApp solely as a tool for everyday communication, the author presents it as a multifaceted pedagogical instrument that supports the educational process on several levels. In response to global digitalization trends and the transformative effects of the COVID-19 pandemic on educational formats, the study investigates the platform's potential to enhance distance and hybrid learning models. The analysis is grounded in the theoretical frameworks of connectivism and social constructivism, which emphasize the importance of social interaction, knowledge co-construction, and flexible learning pathways in digital contexts. Drawing on practical experience from teaching at the National Aerospace University "Kharkiv Aviation Institute," the author identifies various educational functions that WhatsApp can serve. These include facilitating microlearning, organizing digital tutoring sessions, enabling peer-to-peer mentoring, and managing coordination for internships and group academic projects. The article particularly emphasizes the messenger's supportive role during periods of national crisis, such as martial law and energy blackouts, when traditional communication and educational channels are disrupted. WhatsApp is shown to contribute to the reduction of students' emotional stress and isolation, helping to maintain continuity in learning and a sense of community. The research emphasizes that the pedagogically effective use of WhatsApp in higher education is not spontaneous or incidental but demands intentional and well-structured instructional design. This includes the careful planning of learning objectives, the integration of WhatsApp into broader educational strategies, and the alignment of its use with specific pedagogical goals, whether related to cognitive, communicative, or socio-emotional development. The platform's potential as an educational tool can only be fully realized when its functions are embedded within thoughtfully constructed learning environments that promote meaningful interaction, critical thinking, and active student engagement.*

**Keywords:** library, information and archival studies, professional training, future specialists, digital pedagogy, WhatsApp Messenger, microlearning, digital competence, modern trends in education, technical universities.

**Шленьова М. Г. Застосування месенджера WhatsApp у професійній підготовці майбутніх фахівців з бібліотечної, інформаційної та архівної справи у закладах вищої технічної освіти.** У статті здійснено аналіз цілеспрямованого впровадження месенджера WhatsApp у професійно орієнтовану підготовку майбутніх фахівців у галузі бібліотекознавства, інформаційних наук та архівної справи в умовах функціонування закладів вищої технічної освіти. Автор розглядає WhatsApp не лише як інструмент повсякденної комунікації, а як поліфункціональний педагогічний засіб, здатний забезпечити підтримку освітнього процесу на декількох рівнях. У контексті глобальної цифровізації та трансформаційних змін, спричинених пандемією COVID-19, проаналізовано потенціал використання мобільних комунікаційних платформ для оптимізації дистанційних і гібридних форм навчання. Теоретичне підґрунтя дослідження становлять засади конективізму та соціального конструктивізму, які акцентують на значущості соціальної взаємодії, колективного конструювання знань і гнучких навчальних траєкторій у цифровому середовищі. Спираючись на результати педагогічної практики, здійсненої на базі Національного аерокосмічного університету «Харківський авіаційний інститут», автор окреслює низку освітніх функцій, які може виконувати месенджер WhatsApp. Зокрема, йдеться про підтримку мікронавчання, організацію цифрового тьюторингу, реалізацію горизонтального (партнерського) наставництва, а також координацію стажувань та академічних проєктів. Окрема увага приділяється ефективності використання месенджера в умовах надзвичайних ситуацій (зокрема під час воєнного стану та блекаутів), коли традиційні канали комунікації зазнають обмежень. У дослідженні наголошується, що педагогічно ефективно використання месенджера WhatsApp у сфері вищої освіти не може розглядатися як спонтанний або епізодичний процес, оскільки воно потребує цілеспрямованого, системно організованого та методологічно обґрунтованого навчального дизайну. Йдеться, передусім, про необхідність детального планування освітніх цілей, інтеграції функціональних можливостей месенджера у загальну структуру навчального курсу та узгодження форм і методів його застосування з конкретними завданнями навчального процесу, зокрема тими, що спрямовані на розвиток когнітивних умінь, комунікативних компетентностей або соціально-емоційного інтелекту студентів.

**Ключові слова:** бібліотечна, інформаційна та архівна справа, професійна підготовка, майбутні фахівці, цифрова педагогіка, WhatsApp Messenger, мікронавчання, цифрова компетентність, сучасні тенденції в освіті, технічні університети.

**Introduction.** In the 21st century, education is undergoing a profound transformation, from traditional models of knowledge transmission to flexible, networked, and technologically mediated learning environments. This shift has become especially evident during the COVID-19 pandemic, which accelerated the adoption of distance learning as a core component of educational practice. These

changes have significantly impacted the training of future specialists in library, information, and archival studies, a field situated at the intersection of the humanities, digital culture, and technological innovation.

Modern information professionals are no longer confined to the role of intermediaries between users and documents. They are digital communicators, curators of knowledge, analysts of information flows, and educators in the broadest sense. Their professional identity is shaped by the dynamic nature of information exchange, multi-platform communication, and emerging forms of digital interaction. In this context, mobile messengers, particularly WhatsApp, are gaining recognition not only as tools for personal communication but also as informal learning environments that support pedagogical interaction, community-building, and real-time engagement.

In an age defined by the exponential growth of information, educating professionals capable of processing, systematizing, preserving, and ethically mediating knowledge is not merely an academic goal; it is a societal imperative. Future specialists in library, information, and archival studies must be prepared to serve as vital links between digital content and human meaning, between technological tools and the ethical dimensions of cultural memory.

Educational processes today are inseparable from the technological realities that shape them. As messengers become embedded in our daily communicative consciousness, their pedagogical potential must be acknowledged. For educators aiming not only to deliver content but also to foster intrinsic motivation and learner autonomy, embracing digital platforms such as WhatsApp represents a necessary expansion beyond conventional methods.

The integration of mobile communication tools into the professional training of information specialists should be viewed not as a temporary adaptation to crisis conditions, but as a strategic component of a learner-centered, adaptive, and future-ready educational model. In this light, WhatsApp serves as more than just a communication channel; it becomes a pedagogical medium that supports individualized learning, strengthens peer interaction, and replaces the impersonality of learning management systems with immediacy, empathy, and human connection.

**Aim and tasks.** The study aims to **conceptualize and justify the pedagogical potential of WhatsApp Messenger** as a tool for supporting the professional training of students in the fields of library, information, and archival science.

**Research methods.** The article is based on empirical observations and reflective analysis of pedagogical practices implemented at National Aerospace University “Kharkiv Aviation Institute”. It uses case-based insights from real educational scenarios, including monitoring student activity in WhatsApp groups, analyzing communication patterns, and evaluating the outcomes of digital tutoring,

peer mentoring, and microlearning tasks. The study also draws on content analysis of student responses and feedback to assess the effectiveness of WhatsApp in supporting professional training. The research is qualitative and grounded in practical experience rather than formal experimental design.

**Review of the recent studies and publications.** According to the theories of connectivism and social constructivism, knowledge is not merely transmitted; it is co-constructed through interaction, contextual engagement, and participation in dynamic networks of relationships. In this light, instant messaging technologies, despite their apparent spontaneity, possess deep pedagogical potential. They create a space for fostering metacognitive strategies, developing critical thinking, and forming a learner's subjective stance. The question, therefore, is not whether such tools should be used, but how to embed them meaningfully within a didactic framework.

In a study by A. Ahadi et al., the rapid shift to distance learning in response to the COVID-19 crisis is characterized as Emergency Remote Teaching (ERT), a temporary and unplanned transition to digital formats without sufficient preparation. However, in the training of future professionals in library, information, and archival studies, the situation calls for more than reactive adaptation; it demands a rethinking of the educational paradigm, from reproductive to interactive, from institution-centered to learner-centered (Ahadi et al., 2021).

The issue of student support in digital environments warrants particular attention. As noted by O. Bondarenko & I. Puchkov, the effectiveness of distance learning largely depends on the quality of support services, not only technical, but also emotional, advisory, and academic. This is especially relevant in the context of preparing professionals whose future work involves supporting users in libraries, archives, and information centers (Bondarenko & Puchkov, 2020).

When used as a support tool in distance education, WhatsApp demonstrates several notable advantages. As M. Veytia-Bucheli et al. observes, the platform offers high-speed communication, intuitive usability, and multimodal messaging capabilities, including text, voice, images, and documents. Moreover, WhatsApp fosters the development of learning communities, which play a crucial role in shaping students' emerging professional identities. In this context, social support is as important as cognitive support (Veytia-Bucheli et al., 2020).

In practice, a WhatsApp group can serve not only as a channel for rapid technical assistance but also as a platform for reflection, peer exchange, resource sharing, and timely feedback. This is particularly valuable for students still developing key competencies such as information literacy, critical searching, digital cataloging, and professional communication skills in academic and workplace contexts.

However, such use must be approached systematically. It is essential to cultivate a culture of digital ethics and network etiquette. As research by I. Kozubtsov (2023) indicates, the absence of moderation, clearly defined rules, and boundaries between personal and academic interaction can undermine the potential benefits of messenger-based learning. This concern is particularly acute in archival disciplines, where confidentiality, personal data protection, and digital security are foundational (Kozubtsov, 2023).

From the perspective of innovative pedagogy, the integration of mobile messengers into the educational process requires thoughtful methodological support, internal protocols, and alignment with other tools such as Moodle, Google Classroom, virtual labs, digital library catalogs, and cloud-based archives. In this ecosystem, WhatsApp functions as a “pedagogical bridge”, connecting the formal with the informal, the academic with the social, and the distant with the immediate.

M. Shlenova highlights the use of **WhatsApp** as an effective educational tool in the training of future library, information, and archival specialists. It emphasizes WhatsApp’s role in fostering real-time communication, collaboration, and student engagement within digital learning environments. As part of the broader shift toward digitalization in higher education, WhatsApp supports informal learning, quick feedback, and continuous interaction between students and educators. The article argues that integrating such tools into the curriculum enhances digital literacy and prepares students for professional work in today’s information-driven world (Shlenova, 2025b). One more work by M. Shlenova highlights the complementary role of **WhatsApp** in enhancing academic blogging within the professional training of future information specialists. Used alongside blog-based assignments, WhatsApp supports real-time communication, collaboration, and feedback, boosting student motivation, engagement, and digital competence. It helps create a dynamic learning environment where students actively build knowledge and develop their professional identity (Shlenova, 2025a).

Mobile communication plays a vital role in building trust and reducing the anxiety often associated with distance learning. As noted by O. Veritova, emotional security and a sense of belonging to the educational environment significantly influence students’ ability to self-regulate their learning processes (Veritova, 2019). In parallel, research by A. Wijaya (2018) highlights the considerable pedagogical potential of WhatsApp as a remote support tool. The platform enables asynchronous reflective exchange, facilitates group discussions, and fosters the development of context-sensitive dialogue (Wijaya, 2018).

In the training of future specialists in library, information, and archival science, it is essential that students are not passive recipients of knowledge but actively engage in transforming their learning experiences into professional scenarios. For

instance, a student who uses a messenger for academic communication is already acquiring models of institutional interaction that can later be transferred into their work with library or archival users. This process exemplifies “learning through modeling”, a method of forming professional behavior in environments that simulate real-world conditions.

From a methodological perspective, the integration of WhatsApp into the educational process should be positioned as a component of a broader, multi-level student support system. As emphasized by O. Horbatiuk & S. Polishchuk, technical and instructional support are essential elements of an effective distance learning environment. Within this framework, WhatsApp offers immediate access to consultation and feedback, an especially critical function when students are learning to navigate complex digital platforms such as electronic libraries, institutional repositories, and cloud-based archives (Horbatiuk & Polishchuk, 2022).

The importance of educating students in digital ethics also warrants special attention. Issues such as responsible information sharing, adherence to copyright regulations, and the protection of confidentiality must not only be taught as abstract principles but embedded into daily educational practice. As I. Mala rightly observes, student support extends beyond technical or instructional guidance to include administrative and ethical mentorship, which is fundamental in shaping responsible users and curators of digital information environments (Mala, 2022).

This raises the issue not only of technical, but of pedagogical integration. How can WhatsApp be transformed from a simple messaging tool into a meaningful educational space? The experience shared by A. Amry (2014) suggests that this transformation can be achieved by combining informal communication with clearly structured didactic tasks, for example, weekly mini-discussions, collaborative case studies, resource sharing, quick polls, or the creation of bibliographic clubs within the messenger platform (Amry, 2014).

In the professional training of future specialists in library, information, and archival science, such practices not only facilitate the integration of theory into practice but also promote the development of digital facilitation skills, competencies increasingly vital in the 21st-century information landscape.

Another critical consideration is moderation. As noted by I. Klisowska et al., the quality of educational support is determined less by the quantity of services offered and more by the timeliness of responses and the presence of a coordinator who ensures structured, purposeful communication. Within the context of WhatsApp-based learning, this coordinating role can be assumed by a course instructor or module curator. Their responsibilities go beyond providing answers; they are tasked with cultivating a dialogic culture, managing moments of disruptive communication, and offering timely prompts that guide students toward relevant sources, assignments,

or self-reflection activities. The study also highlights that one of the most significant factors contributing to the effectiveness of messenger-based education is the perceived immediacy of the teacher's presence. This "presence" not only reduces psychological distance but also increases student motivation, particularly under conditions of isolation or academic stress. For future professionals working with readers, researchers, and digital systems, this sense of closeness represents a valuable interpersonal competence, one developed through lived experience in the learning process (Klisowska et al., 2021).

The technical advantages of WhatsApp also deserve mention. The platform supports the sharing of files in PDF, Word, and Excel formats, enables real-time screenshot sharing to document technical issues, and allows for the exchange of video tutorials and voice messages. This multi-format functionality supports various learning styles, visual, auditory, and kinesthetic, thus contributing to more inclusive and responsive instruction.

Equally important is the role of peer-to-peer learning within the student community. As observed by O. Yasenova et al. support in open and distance education often emerges through interpersonal interaction among students themselves, who are frequently able to assist each other more rapidly than instructors. This is especially pertinent in the training of future librarians and archivists, for whom mutual support is not only a practical necessity but a cornerstone of professional ethics and culture (Yasenova et al., 2020).

In the training of information specialists, it is important to create learning situations in which students assume the role of experts in specific areas, for example, catalog structures, searching in open-access repositories, or identifying digital document formats. In such cases, the messenger serves not merely as a tool for communication, but as a space for horizontal pedagogy, where knowledge flows among peers rather than only from teacher to student.

This approach brings us closer to a new educational paradigm inclusive digital pedagogy in which every participant is granted a voice, equitable access to knowledge, timely support during challenges, and, most importantly, a genuine sense of belonging in the learning process.

Rethinking the role of mobile technologies in the professional preparation of information specialists is not solely a matter of tool selection, but one of educational philosophy. The pandemic merely surfaced trends that had long been developing within academic discourse: the growing need for flexibility, real-time feedback, and a pedagogy grounded in care. As K. Rajab rightly notes, there is a substantial difference between well-planned online learning and Emergency Remote Teaching (ERT); yet even under crisis conditions, meaningful and impactful educational practices can be cultivated (Rajab, 2018).

Supportive pedagogy, facilitated through instant messaging platforms, enables future specialists in library, information, and archival science to be trained in environments that not only transmit knowledge but also offer care. In this context, the messenger becomes more than a platform, it becomes a space of institutional care, a digital environment characterized by responsiveness, empathy, and mutual support.

In our view, the effective use of WhatsApp as an educational support tool depends on several key factors: clear organizational structure, active moderation, well-defined boundaries between formal and informal communication, and thorough preparation of both educators and students for this mode of interaction. In essence, it is not the technology itself that defines its educational value, but the capacity of the learning environment to pedagogize technology, to infuse it with human-centered meaning and purpose.

Looking ahead, the training of information professionals will increasingly occur in hybrid or fully digital formats, supported by mobile, adaptive, and cognitively responsive technologies. This shift means that platforms such as WhatsApp, Telegram, and Signal should no longer be seen as peripheral additions to the educational process. Rather, when designed and managed with pedagogical intent, they constitute authentic learning environments in their own right.

**Presentation of the main material.** In today's educational landscape, the professional training of future specialists in library, information, and archival science is unfolding within the dynamic context of rapid digital transformation. Mobile technologies are no longer merely auxiliary tools—they have become integral components of the didactic system. One of the most prominent examples of such technologies is the use of messaging platforms, particularly WhatsApp, which is increasingly being integrated into academic settings. At National Aerospace University “Kharkiv Aviation Institute”, the Department of Documentation Studies and Ukrainian Language actively employs WhatsApp as a digital platform for academic support, communication, tutoring, and the development of students' meta-professional competencies in the “Information, Library, and Archival Studies” program.

Mobile communication in higher education has long transcended its purely technical function. It now occupies a significant place within pedagogical, sociological, and psychological discourse. As noted by N. Rodionova et al., in the context of distance learning, immediacy of communication, accessibility of instructors, and consistent academic support are critical factors in reducing student frustration and fostering a sense of pedagogical presence. In this regard, WhatsApp serves not only as a technical tool but also as a platform for emotional and organizational support. In my own teaching practice, it has become part of a broader



pedagogical ecosystem, a space where students are not only able to ask questions but are continually engaged in professional dialogue (Rodionova et al., 2022).

One of the key didactic strategies implemented through WhatsApp is modular micro-support. Each week, students receive structured micro-messages in the group chat, which include explanations of practical assignments, clarification of key terms, and recommendations for relevant sources. These messages are developed based on an analysis of common mistakes in students' previous work, thus fulfilling an adaptive function. Regardless of individual learning pace, each student receives targeted guidance and clarification. As S. Ludwig-Harman & J. Dunlap have emphasized, instructional support plays a vital role in lowering barriers to learning complex technologies, especially for students with limited digital literacy (Ludwig-Harman & Dunlap, 2003).

Simultaneously, WhatsApp functions as a communication laboratory. Students are encouraged to pose questions at any time, and often, responses are provided by peers. In this way, the principles of community-based learning and learning within a community of practice are enacted. For future information professionals, the ability to process documents is no longer sufficient, they must also be proficient communicators within digital information spaces. It is within this live, interactive context that such skills are cultivated and practiced authentically.

Another distinctive feature of WhatsApp is its function as a space for institutional facilitation. For instance, during exam preparation in the course "Library and Information Support for Science and Technology", a dedicated WhatsApp group was created to coordinate access to online catalogs, exchange study materials, and discuss the interfaces of various information systems. Information received from students, such as screenshots of technical errors, specific queries, and reports of system malfunctions, enabled timely intervention, revision of instructions, and the updating of methodological materials. In this way, the platform facilitated not only communication but also real-time pedagogical and technical responsiveness.

WhatsApp also plays a crucial role in fostering emotional security within the educational environment. During periods of distance learning, especially under crisis conditions such as martial law or power outages, students often experience heightened isolation and academic anxiety. The availability of a 24/7 support group in WhatsApp significantly alleviates these pressures. As O. Chusova et al. rightly note, the effectiveness of online education depends in large part on the instructor's ability to maintain a continuous sense of presence, even when that presence is mediated digitally (Chusova et al., 2021).

Pedagogically, WhatsApp supports the implementation of microlearning strategies. In the same course, students received daily mini-tasks such as: "Locate a document in the Library of Congress catalog related to library terminology of the

1950s or “Explain the difference between MARC and Dublin Core.” These tasks required minimal time yet contributed consistently to students’ ability to navigate complex information systems and metadata structures. The cumulative effect of these small assignments reinforced core professional competencies in a manageable and engaging format.

Furthermore, WhatsApp served as a medium for cultivating reflective professional thinking. Once a week, reflective prompts were shared in the group, for example: “What ethical dilemma arises in the context of open access to private archives?” or “What is the most significant challenge facing information professionals in the age of AI?” Student responses varied in depth and tone, often followed by peer-to-peer discussion in small groups. In this way, WhatsApp functioned not only as a communication tool but as an environment for dialogic engagement and the development of critical professional perspectives.

The implementation of the “digital tutoring” method proved particularly effective. The WhatsApp group included master’s students who were already employed in libraries and archives. They assumed the role of mentors for bachelor’s students, responded to technical inquiries, shared their professional experience, and conducted mini-workshops through audio and video messages. This form of interaction reflects the peer-to-peer learning model, which we actively promote as a valuable tool for developing academic maturity and professional confidence.

The organizational function of the messenger is equally significant. WhatsApp was used to coordinate library internships, assign placements, collect reports, and quickly review student portfolios. In several instances, it was the immediacy of communication via the messenger that helped us prevent confusion regarding report submission deadlines and swiftly resolve issues related to access to the university library’s internal archives.

However, one challenge we encountered was the excessive availability of the instructor. Some students began sending technical or even everyday questions late at night or during weekends. This prompted the establishment of clear boundaries for digital interaction, which, once communicated, were well received by the students. This experience reinforces the idea that even within informal digital environments, there must be a balance between accessibility and professional boundaries.

In summary, WhatsApp is not merely a mobile application, but a robust pedagogical tool capable of enhancing and transforming the learning experience. Its integration into the professional training of future specialists in library, information, and archival science enables the practical implementation of key principles of contemporary pedagogy: adaptability, personalization, interaction, support, and reflection. It operates outside the formal LMS framework, outside rigid formats, but never outside the scope of pedagogy.

**Discussion.** The findings of this study confirm that the purposeful integration of WhatsApp Messenger into the professional training of future specialists in library, information, and archival studies can significantly enhance learner engagement, emotional well-being, and the development of meta-professional competencies. WhatsApp functioned not only as a communication tool but also as a dynamic digital learning environment capable of supporting microlearning, reflective dialogue, academic mentoring, and organizational coordination, particularly in crisis conditions such as wartime disruptions and energy blackouts.

These results are consistent with earlier studies emphasizing the pedagogical value of mobile messengers in digital education ecosystems. For example, research by M. Veytia-Bucheli et al. (2020) and A. Wijaya (2018) has highlighted the multimodal, asynchronous, and collaborative features of WhatsApp, which facilitate social presence and peer-supported learning. The current study extends these findings by situating WhatsApp within a broader, ethically grounded educational paradigm that includes structured moderation, digital boundaries, and professional role modeling, a dimension often underexplored in prior literature.

The study also contributes to the discourse on **inclusive digital pedagogy**, supporting the argument that learning environments must balance technical accessibility with emotional and academic support (N. Rodionova et al., 2022; O. Veritova, 2019). The practical experiences reported in this study, including the implementation of micro-tasks, peer mentorship, and real-time problem resolution, illustrate how WhatsApp can operate as a low-threshold yet high-impact tool within a complex educational ecosystem.

However, the research acknowledges certain limitations. The qualitative, practice-based nature of the study means findings are context-specific and may not be fully generalizable across other institutions, disciplines, or cultural settings. Furthermore, issues of digital burnout and blurred boundaries between academic and private life remain areas for further investigation.

This research confirms that the effectiveness of messenger-based learning is determined not by the tool itself, but by the **pedagogical intentionality** behind its use. WhatsApp, when framed within a reflective instructional design and accompanied by appropriate ethical guidelines, becomes a platform for inclusive, dialogic, and adaptive learning. These findings open avenues for further empirical studies on integrating mobile platforms into formal curricula, particularly in professional fields that intersect information, technology, and human-centered services.

**Conclusions.** Therefore, the professional training of future specialists in library, information, and archival science must go beyond teaching technical competencies alone. It should include comprehensive coursework in digital ethics,

digital communication, and dedicated modules on digital facilitation. Students must be prepared not only to navigate complex information environments, but also to embody and promote a culture of responsible, ethical, and human-centered information practices in an era of post-digital complexity.

This involves cultivating a skill set that is both technical and interpersonal: the ability to manage information systems, moderate online interactions, respond empathetically in digital environments, and facilitate learning and communication within diverse user communities. Future professionals are expected not merely to process data, but to act as mediators of meaning, ensuring accessibility, equity, and trust in a landscape marked by rapid technological change and information overload.

In this context, the role of the educator becomes crucial. The task of the modern teacher is to design inclusive, adaptive, and emotionally responsive learning environments, where each student, regardless of geographic location, digital literacy, or level of academic anxiety, feels seen, heard, and supported. Creating such environments requires pedagogical creativity, thoughtful integration of tools, and an understanding of how everyday technologies can serve deeper educational purposes.

Despite their apparent simplicity, messenger platforms such as WhatsApp have demonstrated their capacity to function as more than communication tools. When integrated intentionally, they become spaces of care, collaboration, reflection, and microlearning. They foster a sense of presence, reduce psychological distance, and support the development of both academic and professional identity.

Thus, messengers can and should serve as pillars of digital support, helping to realize the broader goals of modern pedagogy: adaptability, personalization, interaction, and reflection. The responsibility lies not in the technology itself, but in how educators choose to pedagogically frame and facilitate it, with purpose, empathy, and vision.

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