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Submitted: 14/04/2025 - Accepted: 12/05/2025 - Published: 28/06/2025

Psychological and Pedagogical Vectors of Distance Learning in Higher Education: A Framework for Integrated Management and Support

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DOI: 10.26417/r8v88753

Abstract

The proliferation of distance education in higher education (HE) offers unprecedented flexibility but simultaneously introduces challenges, including student isolation, disengagement, and diminished wellbeing, which adversely affect academic performance and retention. This paper addresses the critical need for a holistic support system that transcends traditional, siloed approaches. Using an integrative review methodology, this study synthesizes empirical and theoretical literature to develop a conceptual framework for integrating psychological and pedagogical support within digital learning environments. The framework emphasizes the synergistic relationship between fostering a sense of belonging, promoting student engagement, and providing accessible well-being counseling. We argue that a sense of belonging is a foundational element that mitigates negative psychological outcomes, such as anxiety, and enhances academic motivation. The proposed framework advocates for embedding well-being support directly into digital education platforms, creating a cohesive ecosystem that facilitates student success. By systematically combining psychological and pedagogical strategies, institutions can create a more resilient, supportive, and effective online learning experience. This paper offers a practical model for HE administrators and educators to guide the design and implementation of integrated support systems tailored for the digital age.

Keywords: distance learning, higher education, student engagement, sense of belonging, well-being counseling, integrated support framework, digital pedagogy

Introduction

The landscape of higher education (HE) has been irrevocably altered by the rise of distance learning, a trend accelerated by technological advancements and global events such as the COVID-19 pandemic and geopolitical conflicts like the war in Ukraine. This paradigm shift has compelled universities to rapidly adopt digital transformation strategies, evolving into what some scholars term "University 4.0" (Veglianti et al., 2023). While distance education offers significant benefits, including accessibility for non-traditional students and personalized learning paces, it concurrently presents a formidable set of challenges. Students often grapple with a "digital divide," difficulties in maintaining engagement, and a profound sense of social isolation (Kostolanyova et al., 2023). These issues can lead to decreased motivation, heightened anxiety, and ultimately, lower academic performance and retention rates.

The core problem addressed in this paper is the fragmented nature of student support in many online HE programs. Traditionally, academic support (pedagogical vector) and mental health services (psychological vector) operate in separate institutional silos. This separation fails to address the deeply intertwined nature of students' academic and emotional experiences in a remote setting. For instance, feelings of loneliness and a lack of belonging directly impact a student's ability to engage with course material, while academic struggles can exacerbate stress and anxiety (Di Malta et al., 2022). A reactive, disjointed support model is insufficient for the proactive, holistic needs of the modern distance learner.

This paper argues for a paradigm shift toward an integrated system of management and support that synergizes psychological and pedagogical vectors. We propose a conceptual framework designed to guide HE institutions in creating a cohesive digital ecosystem where academic assistance and well-being support are interwoven. The aim is to move beyond merely providing resources and toward fostering an online environment that actively cultivates a sense of belonging, promotes robust engagement, and normalizes access to mental health support. By synthesizing existing literature and best practices, this paper provides a structured model for administrators and educators to build more effective, humane, and successful distance learning programs.

Literature Review

The evolution of distance education from correspondence courses to sophisticated digital platforms has been well-documented. Initially a peripheral mode of delivery, it has now entered the mainstream of HE, forcing a re-evaluation of institutional structures and pedagogical models (Aoki, 2012). Unlike traditional campus-based education where instructors have significant autonomy, distance education necessitates a more centralized, institutionally planned system. This systemic nature, however, can lead to organizational inflexibility, making it difficult for institutions to adapt to new technologies and pedagogical innovations (Aoki, 2012).

A central theme in recent literature is the challenge of maintaining student engagement and interaction in online environments. Shatri et al. (2024) identified significant infrastructural and didactic hurdles in Kosovo's HE institutions, noting that the absence of a robust Learning Management System (LMS) hindered collaborative projects and student interactivity. Similarly, a study of Malaysian business students found that internal challenges, such as poor time management and low self-esteem, were the most significant barriers to success in online learning (Hussein et al., 2023). These findings underscore that technology alone is insufficient; it must be paired with pedagogical strategies that actively foster student motivation and self-regulation.

The psychological dimension of distance learning has emerged as a critical area of concern. The absence of informal, face-to-face interactions can lead to social isolation and a diminished sense of belonging, which are strong predictors of negative outcomes. Di Malta et al. (2022) found that for distance education students, connectedness (i.e., low loneliness and a high sense of belonging) mediated the relationship between mental health and academic achievement. Students with poorer well-being reported less emotional intimacy and worse academic performance. This connection is further supported by Mtshweni (2024), whose research on first-generation distance learners in South Africa revealed that a sense of belonging was a more significant predictor of academic persistence than perceived social support from family or friends. These studies highlight that fostering a sense of community is not an auxiliary benefit but a core requirement for student success.

In response to these challenges, scholars have called for the integration of psychological support into the fabric of distance learning. Puhach (2025) emphasizes that effective psychological support from peers and faculty can lower stress, boost motivation, and prevent emotional burnout. This involves more than just offering counseling services; it requires creating a supportive climate through digital pedagogy, or "cyber pedagogy," which includes personalized learning plans and trust-building communication (Gorina, 2024; Zefi et al., 2022). Jabin (2025), in a study of students in Bangladesh, recommends that institutions formalize support to help students manage coursework, improve social interaction through online collaboration, and run workshops to build self-efficacy. Self-efficacy, the belief in one's ability to succeed, is a powerful mitigator of anxiety in online learners (Abdous, 2019).

Despite a growing body of research on academic and psychological support in distance learning, a significant gap remains. Most studies focus on either the pedagogical vector (e.g., engagement tools, instructional design) or the psychological vector (e.g., mental health, sense of belonging) in isolation. This siloed approach fails to capture the synergistic potential of combining these domains. The current literature lacks a comprehensive, integrated framework that guides institutions in systematically weaving these two strands of support together. This paper aims to fill that gap by proposing a model that treats pedagogical and psychological support as

two sides of the same coin, essential for creating a holistic and effective online learning environment.

Methodology: Framework Development

This study employs an integrative review methodology to develop a conceptual framework for student support in distance higher education. An integrative review is a systematic approach that synthesizes both empirical and theoretical literature to provide a more comprehensive understanding of a specific phenomenon (Whittemore & Knafl, 2005). This method was chosen because the challenge of supporting distance learners is multifaceted, requiring insights from diverse fields, including education, psychology, sociology, and information technology. Unlike a meta-analysis, which aggregates quantitative data, an integrative review allows for the inclusion of varied research designs—qualitative, quantitative, and mixed-methods—to construct a holistic conceptual model.

The development of the framework followed a structured, multi-stage process, as depicted in Figure 1. The process included problem identification, a systematic literature search, data evaluation, data analysis, and the final synthesis and presentation of the framework.

Figure 1. Diagram of the Literature Selection and Review Process

Identification		
Records identified through database searching (MDPI, Springer, ScienceDirect, APA PsycInfo, ERIC, JSTOR) (n = 457)	Keywords: "distance learning", "online education", "higher education", "student support", "sense of belonging", "student engagement", "mental health", "wellbeing counseling"	
↓		
Screening		
Records after duplicates removed (n = 291)		
↓		
Records screened based on title and abstract for relevance to integrated psychological and pedagogical support (n = 291)		
↓		

Records excluded

(n = 215)

Reasons: Not focused on HE, purely technical focus, no relevance to student support.

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Eligibility

Full-text articles assessed for eligibility

(n = 76)

1

Full-text articles excluded

(n = 31)

Reasons: Lacked conceptual depth, insufficient methodological rigor, focus too narrow (e.g., single tool).

1

Inclusion

Studies included in integrative synthesis

(n = 45)

*Source: Developed by the authors, adapted from the PRISMA flow diagram.

The literature search was conducted using multiple databases, including MDPI, Springer, ScienceDirect, APA PsycInfo, ERIC, and JSTOR, to ensure comprehensive coverage of educational and psychological research. Search terms included combinations of "distance learning," "online education," "higher education," "student support," "sense of belonging," "student engagement," "mental health," and "wellbeing counseling." Inclusion criteria were: (1) peer-reviewed articles published in English between 2017 and 2024; (2) focus on higher education settings; and (3) relevance to psychological or pedagogical support for online students. Exclusion criteria included articles focused solely on K-12 education, purely technical papers on platform development without a student support focus, and publications shorter than three pages.

The data analysis phase involved a thematic synthesis approach. The selected articles were coded to identify recurring themes, key concepts, and proposed strategies. These codes were then grouped into conceptual categories related to challenges (e.g., isolation, anxiety) and support mechanisms (e.g., peer interaction, faculty presence, counseling). The final step was the synthesis, where these categories were organized into a coherent conceptual framework. The framework's structure emerged from the

analysis, illustrating the relationships between the core components of pedagogical and psychological support and their combined impact on student outcomes. This rigorous process ensures that the proposed framework is not merely speculative but is grounded in a broad and current body of scholarly literature.

A Framework for Integrated Student Support

The synthesis of the literature reveals that effective support for distance learners requires a deliberate and systematic integration of pedagogical and psychological strategies. A fragmented approach, where academic and well-being services are disconnected, fails to address the holistic needs of students. Based on our integrative review, we propose a three-tiered framework for integrated student support in distance HE. The framework is built on a foundational layer of institutional commitment, with two interconnected pillars—Pedagogical Engagement and Psychological Well-being—that work synergistically to produce positive student outcomes.

Figure 2. Conceptual Framework for Integrated Psychological and Pedagogical Support in Distance HE

Desired Student Outcomes

- Enhanced Academic Performance
- Increased Retention and Completion
- Improved Student Satisfaction
- Greater Self-Efficacy and Resilience

Pillar :	1: Pedagogio	cal Engagement
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Faculty Presence & Interaction:

- Proactive communication
- Timely & constructive feedback
- Synchronous sessions (live lectures, office hours)

Collaborative Learning Design:

- Structured group projects
- Peer review activities
- Online discussion forums

Interactive & Flexible Content:

Multimedia resources

Pillar 2: Psychological Well-being

Fostering Sense of Belonging:

- Peer mentoring programs
- Virtual social spaces (e.g., coffee hours)
- Program-level community events

Accessible Well-being Support:

- Integrated online counseling services
- Mental health workshops & resources
- Proactive check-ins

Building Self-Regulation Skills:

Time management training

Self-paced modules	Goal-setting exercises
Formative assessments	Stress management techniques

Foundation: Institutional Commitment & Integrated Digital Ecosystem

- Strategic vision for student support
- Investment in technology and training
- Data-driven policies and interventions
- Seamless integration of LMS, counseling platforms, and communication tools

Foundational Layer: Institutional Commitment

The entire framework rests on a foundation of institutional commitment. This involves more than just allocating a budget; it requires a strategic vision that prioritizes holistic student support. Leadership must champion a culture where student well-being is seen as integral to academic success. This commitment manifests in tangible ways: investing in a robust and integrated digital ecosystem where the LMS, counseling platforms, and communication tools work seamlessly together; providing ongoing professional development for faculty and staff on digital pedagogy and mental health first aid; and using data analytics to identify at-risk students and deploy proactive interventions.

Pillar 1: Pedagogical Engagement

This pillar focuses on the design and delivery of the learning experience itself. Its goal is to combat passivity and isolation through intentional pedagogical strategies. Key components include:

- **Faculty Presence and Interaction:** Research consistently shows that student-instructor interaction is a primary driver of satisfaction in online learning (Hettiarachchi et al., 2021). This goes beyond simply posting materials. It involves proactive communication, providing timely and substantive feedback, and creating opportunities for synchronous interaction, which humanizes the learning experience.
- Collaborative Learning Design: To counteract social isolation, courses should be designed with structured opportunities for peer-to-peer interaction. This can include well-designed group projects, peer review assignments, and actively moderated discussion forums that encourage meaningful dialogue rather than superficial posts.
- **Interactive and Flexible Content:** Leveraging the digital medium to provide engaging content is crucial. This means moving beyond static PDFs to include multimedia resources, interactive simulations, and low-stakes formative

^{*}Source: Developed by the authors based on the integrative literature review.

assessments that allow students to check their understanding at their own pace.

Pillar 2: Psychological Well-being

This pillar addresses the emotional and social needs of distance learners. Its goal is to create a supportive and caring community that promotes resilience and mental health. Key components include:

- **Fostering a Sense of Belonging:** As identified in the literature (Mtshweni, 2024; Di Malta et al., 2022), a sense of belonging is pivotal. Institutions can cultivate this through formal peer mentoring programs, informal virtual social spaces (e.g., online "coffee hours"), and program-level events that connect students outside of their specific courses.
- Accessible Well-being Support: Integrating counseling and mental health resources directly into the digital learning platform is a critical step. This reduces stigma and removes barriers to access (Owusu, 2024). Services can include online booking for counseling sessions, embedded mental health workshops, and proactive outreach to students who show signs of distress.
- **Building Self-Regulation Skills:** Many students struggle with the autonomy of distance learning. Providing explicit training in skills like time management, goal setting, and stress management empowers students to take control of their learning and build the self-efficacy needed to succeed (Puhach, 2025).

The power of this framework lies in the synergy between the two pillars. For example, a well-facilitated collaborative project (Pedagogical Pillar) directly contributes to a student's sense of belonging (Psychological Pillar). Similarly, a student who receives effective stress management support (Psychological Pillar) is better equipped to engage with challenging academic material (Pedagogical Pillar). By designing and managing the online experience through this integrated lens, institutions can create a virtuous cycle of engagement, well-being, and academic success.

Discussion

The proposed framework provides a structured approach for HE institutions to move from a reactive, fragmented model of student support to a proactive, integrated one. Its core premise is that in a distance learning context, pedagogical effectiveness and psychological well-being are not separate domains but are deeply intertwined facets of the student experience. This section critically analyzes the framework's implications, illustrates its application through a case study, and discusses the challenges of implementation.

Interpreting the Framework: A Synergistic Approach

The framework's primary contribution is its emphasis on synergy. Traditional models often address student failure by asking either "What was wrong with the teaching?" or "What was wrong with the student?" Our integrated model reframes the question to "How can we design an educational ecosystem that supports the whole student?" For example, the finding by Giusti et al. (2021) that half of their student sample reported significant concentration impairments during distance education highlights a problem at the intersection of pedagogy and psychology. A purely pedagogical solution (e.g., shorter videos) or a purely psychological one (e.g., a link to a counseling website) is insufficient. An integrated solution, as suggested by our framework, might involve embedding short mindfulness exercises (Psychological Pillar) within self-paced learning modules (Pedagogical Pillar) and training faculty to recognize and respond to signs of cognitive overload.

This synergistic approach directly addresses the challenges identified in the literature. The low student responsiveness and collaboration noted by instructors (Sällberg & Folino, 2024) are not just pedagogical problems; they are symptoms of a weak sense of community. By implementing strategies from the Psychological Pillar, such as peer mentoring and virtual social events, institutions can build the social fabric necessary for the collaborative learning strategies in the Pedagogical Pillar to succeed.

Illustrative Case Study: The Open University's "Belonging Project"

To ground the framework in practice, we can analyze "The Belonging Project" at the Open University Law School (OULS), as described by Edwards & Hardie (2024). This initiative serves as an excellent real-world example of our framework in action, demonstrating how a systematic, program-level effort can integrate pedagogical and psychological support.

- Fostering Sense of Belonging (Psychological Pillar): The project's core aim
 was to reduce isolation and build community. It created multiple avenues for
 connection, including student-led coffee events, a peer-mentoring program,
 and academic coffee gatherings where students could meet faculty with
 shared lived experiences. These initiatives directly align with the "Fostering
 Sense of Belonging" component of our framework.
- **Faculty Presence & Interaction (Pedagogical Pillar):** The monthly online guest lectures, where academic staff presented their research, served a dual purpose. They were pedagogically enriching, connecting students to the scholarly life of the university, but they also increased faculty presence and humanized the instructors, strengthening the student-institution connection.
- **Institutional Commitment (Foundation):** The "Belonging Project" was not an ad-hoc activity but a multi-year, institutionally supported project. Its continuation and evolution over three years, including the launch of a law

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school blog and an EDI (Equity, Diversity, and Inclusion) competition, demonstrate the foundational commitment required for such initiatives to succeed and become embedded in the institutional culture.

The success of the OULS project, evidenced by increased student engagement and improved outcomes, validates the core principles of our framework. It shows that by intentionally creating spaces for both formal and informal interaction, and by visibly committing institutional resources, a distance learning provider can cultivate a strong sense of community that supports both academic and personal growth.

Implementation Challenges and Contextual Adaptation

While the proposed framework is intended to be broadly applicable, its implementation must be adapted to specific institutional contexts. Several challenges and considerations must be addressed:

- 1. **Resource Allocation:** Implementing an integrated support system requires significant investment in technology, staff training, and personnel (e.g., online counselors, instructional designers). Institutions with limited funding may need to adopt a phased approach, prioritizing high-impact, low-cost strategies first, such as training faculty in proactive communication or establishing peermentoring programs.
- 2. **Institutional Culture and Silos:** The greatest barrier may be organizational inertia and the traditional separation between academic affairs and student services. Overcoming this requires strong leadership and a clear strategic vision that champions a collaborative, cross-departmental approach to student success.
- 3. **Faculty and Staff Development:** Instructors and support staff are the front line of this framework. They require comprehensive training not only in using digital tools but also in digital pedagogy, fostering online community, and recognizing signs of student distress. This represents a significant commitment to professional development.
- 4. **Student Demographics:** The specific needs of the student population must be considered. An institution serving primarily working adults may need to focus on flexible, asynchronous support options, while one with many first-generation students might prioritize structured mentoring and skills-building workshops, as suggested by Mtshweni (2024).
- 5. **Privacy and Data Security:** Integrating various platforms and using data to identify at-risk students raises important ethical questions about privacy and data security. Institutions must develop clear and transparent policies to ensure that student data is used responsibly and ethically.

Limitations and Future Research

This paper presents a conceptual framework derived from an integrative literature review. As such, its primary limitation is the lack of direct empirical validation. The framework is logically sound and grounded in existing research, but its effectiveness in practice has not been tested through a controlled study. Future research should aim to operationalize the components of the framework and test its impact on student outcomes—such as retention, academic performance, and self-reported well-being—through longitudinal or quasi-experimental studies. Further qualitative research could also explore the lived experiences of students and faculty within institutions that have implemented similar integrated support systems, providing richer insights into the mechanisms that drive success.

Conclusion

The rapid expansion of distance learning has created a new imperative for higher education institutions: to design online learning environments that are not only academically rigorous but also psychologically supportive. The traditional, fragmented approach to student support is no longer adequate for the unique challenges faced by remote learners. This paper has argued for and presented a conceptual framework for integrating pedagogical and psychological support vectors, built on a foundation of institutional commitment.

The proposed framework emphasizes the synergy between fostering pedagogical engagement and promoting psychological well-being. By focusing on strategies that enhance faculty presence, collaborative learning, sense of belonging, and accessible mental health resources, institutions can create a holistic digital ecosystem. The case of the Open University's "Belonging Project" demonstrates that such integrated initiatives are not only feasible but also highly effective in improving student outcomes. While implementation presents challenges related to resources, culture, and training, the long-term benefits—improved student retention, satisfaction, and success—are substantial.

As higher education continues its digital transformation, a commitment to supporting the whole student must be at the forefront of institutional strategy. By adopting an integrated framework, universities can move beyond simply delivering content online and begin to cultivate genuine learning communities that are resilient, engaging, and humane. This approach is not merely a best practice; it is an essential condition for the future success and sustainability of distance education.

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