

<https://doi.org/10.26565/2074-8167-2025-57-15>

УДК 37.014.5:94

Nataliia Lukianenko

Lecturer, Department of Foreign Languages

lukianenko@khadi.kharkov.ua, <https://orcid.org/0009-0007-8836-7788>

Kharkiv National Automobile and Highway University,

Yaroslava Mudroho St. 25, Kharkiv, Ukraine, 61002

RESILIENT PEDAGOGY: COMPARATIVE APPROACHES IN TIMES OF CRISIS

The article examines the concept of resilient pedagogy as a response to the challenges faced by educational institutions during crises such as armed conflicts, pandemics, and large-scale social disruptions. The problem is defined as the urgent need to ensure continuity of education and the preservation of pedagogical quality under conditions of instability. The relevance of the study lies in the growing demand for adaptable teaching strategies that safeguard both the psychological well-being of learners and the professional sustainability of educators.

The purpose of the article is to analyze comparative approaches to resilient pedagogy across different national and institutional contexts, with particular attention to international research and practices. The study aims to identify common strategies, highlight innovative methods, and propose a synthesized framework for resilience pedagogy applicable to diverse educational environments.

The research methods include comparative-historical analysis, bibliometric review of foreign publications, and case studies of higher education institutions in Europe, North America, and Asia. These methods allow for the identification of theoretical foundations, practical applications, and cross-cultural variations in resilience pedagogy.

Comparative analysis reveals that institutions with embedded resilient strategies achieve higher levels of student engagement, teacher retention, and continuity of learning during crises. The author's contribution lies in proposing a multidimensional framework that combines narrative, technological, and community-based approaches to resilient pedagogy.

The conclusions emphasize the scientific novelty of resilient pedagogy as a proactive rather than reactive educational paradigm. The findings have both theoretical and practical significance, offering recommendations for policymakers, educators, and institutions seeking to strengthen their capacity to withstand crises while maintaining educational quality.

Keywords: *resilient pedagogy; crisis education; comparative approaches; teacher training; educational continuity; digital adaptation; international case studies.*

In cites: Lukianenko, N. (2025). Resilient pedagogy: comparative approaches in times of crisis. *Scientific notes of the pedagogical department*, 57, 174–182 <https://doi.org/10.26565/2074-8167-2025-57-15> [in English].

Introduction. Education has always been one of the most vulnerable social institutions in times of crisis. Wars, pandemics, economic instability, and forced migration disrupt not only the physical infrastructure of schools and universities but also the continuity of teaching and learning processes.

In such conditions, the question of resilience becomes central to pedagogy. Resilient pedagogy refers to the ability of educational systems, teachers, and students to adapt to adverse circumstances while maintaining the quality and integrity of the learning process [1].

The relevance of this problem is particularly acute in the twenty-first century, when crises have become systemic rather than episodic. Globalization, technological acceleration, and geopolitical instability mean that educational institutions must be prepared to respond to disruptions that affect millions of learners simultaneously [2]. The COVID-19 pandemic demonstrated how fragile traditional teaching methods can be when confronted with sudden restrictions on physical presence. At the same time, it revealed the potential of digital technologies and innovative pedagogical strategies to sustain learning continuity [3].

Resilient pedagogy is not limited to technological adaptation. It encompasses psychological support for learners, professional sustainability for educators, and organizational flexibility within institutions [4]. Comparative approaches are essential here, as different countries and cultures have developed diverse strategies to cope with crises. For example, Scandinavian models emphasize community - based support and social trust, while Anglo-American institutions often prioritize technological infrastructure and individualized learning pathways [5]. By analyzing these approaches, scholars can identify universal principles of resilience pedagogy that transcend national boundaries.

The theoretical significance of resilient pedagogy lies in its ability to reframe education as a proactive rather than reactive system. Instead of merely responding to crises, resilient pedagogy embeds adaptability into the very structure of teaching and learning [6]. This means that curricula, assessment methods, and institutional policies are designed with flexibility in mind, allowing for rapid adjustment when circumstances change. Such an approach aligns with contemporary theories of complexity and systems thinking, which view education as a dynamic ecosystem rather than a static institution [7].

From a practical perspective, resilient pedagogy has direct implications for teacher training, student engagement, and institutional governance. Teachers must be equipped not only with subject knowledge but also with skills in crisis communication, digital adaptation, and psychological support [8]. Students, in turn, benefit from learning environments that foster autonomy, collaboration, and critical thinking, enabling them to navigate uncertainty with confidence [9]. Institutions that integrate resilient strategies into their governance structures are better able to maintain continuity of operations, protect

vulnerable populations, and uphold academic standards during crises [10].

The comparative dimension of this study is particularly important. By examining how different educational systems respond to crises, we can identify both convergences and divergences in resilience pedagogy. For instance, while European universities often rely on state support and centralized policies, North American institutions may emphasize decentralized innovation and private partnerships [11]. Asian contexts, meanwhile, frequently integrate cultural traditions of collective responsibility into resilient strategies [12]. Such diversity enriches the global discourse on resilient pedagogy and provides valuable insights for policymakers and practitioners.

In summary, the introduction of resilient pedagogy into educational theory and practice addresses one of the most pressing challenges of our time: how to ensure the continuity and quality of education in the face of crisis. The present study seeks to contribute to this discourse by analyzing comparative approaches to resilient pedagogy, identifying universal principles, and proposing a synthesized framework that can guide institutions worldwide [13].

Analysis of Recent Studies and Publications.

The study of resilient pedagogy has gained significant attention in international scholarship, reflecting the urgency of adapting education to crisis conditions. Researchers emphasize that resilience in education is multidimensional, involving psychological, technological, and organizational aspects [1]. Comparative studies highlight that while the concept of resilience is universal, its application varies across cultural and institutional contexts [2].

Several strands of research can be identified. First, psychological resilience in education focuses on the capacity of teachers and students to cope with stress, uncertainty, and trauma. Scholars argue that resilient pedagogy must integrate counseling, peer support, and community engagement into the learning process [3]. Second, technological resilience emphasizes the role of digital platforms, online resources, and blended learning models in ensuring continuity of education during disruptions [4]. Third, organizational resilience examines how institutions restructure governance, curriculum, and assessment to maintain quality standards in times of crisis [5].

Recent publications demonstrate that resilient pedagogy is not merely reactive but proactive. For example, studies in European contexts show that universities which embedded resilient strategies

before the onset of crises were better able to sustain operations and protect vulnerable populations [6]. In North America, research highlights the importance of decentralized innovation, where individual faculties and departments develop tailored resilience practices [7]. Asian scholarship often integrates cultural traditions of collective responsibility, demonstrating how community values strengthen resilience in education [8].

Despite these advances, unresolved issues remain. One challenge is the lack of a unified theoretical framework that synthesizes psychological, technological, and organizational dimensions of resilient pedagogy [9]. Another is the uneven distribution of resources, which creates disparities between institutions in developed and developing countries [10]. Furthermore, while digital adaptation has been widely studied, less attention has been paid to the long-term psychological effects of crisis learning environments on students and teachers [11].

This review of recent studies underscores the need for comparative analysis. By critically examining diverse approaches, scholars can identify universal principles of resilient pedagogy while acknowledging cultural and institutional differences. Such analysis provides the foundation for developing a synthesized framework that strengthens the capacity of education systems to withstand crises [12].

Purpose of the Study. The purpose of this study is to investigate resilient pedagogy as a multidimensional framework for ensuring the continuity and quality of education in times of crisis. Unlike traditional approaches that treat crises as temporary disruptions, resilient pedagogy emphasizes proactive adaptation, embedding flexibility into the structures of teaching, learning, and institutional governance [1].

This research seeks to achieve three interrelated objectives. First, it aims to identify and systematize comparative approaches to resilient pedagogy across diverse national and institutional contexts [2]. Second, it intends to highlight innovative practices that integrate psychological support, digital adaptation, and organizational restructuring into educational processes [3]. Third, the study proposes a synthesized framework that combines theoretical insights with practical recommendations, thereby contributing to both academic discourse and applied pedagogy [4].

The novelty of the study lies in its comparative orientation. By analyzing international approaches, the research moves beyond isolated case studies to reveal universal principles of resilient pedagogy

that can be applied across cultural and institutional boundaries [5]. The expected scientific result is the development of a conceptual model that not only clarifies the theoretical foundations of resilient pedagogy but also provides practical guidance for educators, policymakers, and institutions seeking to strengthen their capacity to withstand crises [6].

Thus, the purpose of the article is to deepen the understanding of resilient pedagogy as a proactive educational paradigm, to enrich the theoretical discourse with comparative insights, and to offer practical recommendations for embedding resilience into the everyday practices of teaching and learning [7].

Research Methods. The methodological basis of this study is grounded in comparative and interdisciplinary approaches that allow for a comprehensive examination of resilient pedagogy in times of crisis. The research design integrates qualitative and bibliometric methods to ensure both theoretical depth and empirical validity [1].

Comparative-historical analysis. This method was employed to trace the evolution of pedagogical responses to crises across different historical periods and cultural contexts. By examining how educational institutions adapted during wars, pandemics, and social upheavals, the study identifies recurring patterns and strategies that inform contemporary resilient pedagogy [2]. Historical comparison also highlights the continuity of certain pedagogical principles, such as the emphasis on community support and adaptive teaching methods [3].

Bibliometric review. A systematic review of foreign academic publications was conducted, focusing on peer-reviewed articles, monographs, and conference proceedings indexed in international databases. This approach allowed for the identification of dominant research trends, key theoretical contributions, and gaps in the existing literature [4]. The bibliometric analysis also ensured that the study was informed by a wide range of perspectives, including psychology, sociology, and educational technology [5].

Case studies. To complement the theoretical analysis, case studies of higher education institutions in Europe, North America, and Asia were examined. These cases were selected based on their documented experiences in implementing resilient strategies during crises. The selection of regions and countries was based on documented resilience practices and the availability of comparative data. Europe and North America were analyzed as representative regions of major higher education systems, while Japan, South Korea, and

China were included as individual cases due to their distinctive resilience strategies and extensive scholarly documentation. This combination ensured both regional breadth and country-specific depth in the comparative analysis. The case study method provided insights into practical applications of resilient pedagogy, including teacher training programs, digital adaptation initiatives, and community-based support systems [6].

Qualitative synthesis. The study employed qualitative synthesis to integrate findings from historical analysis, bibliometric review, and case studies. This method facilitated the development of a multidimensional framework for resilient pedagogy, combining psychological, technological, and organizational dimensions [7]. The synthesis also ensured that the proposed framework was grounded in both theory and practice, making it applicable to diverse educational contexts [8].

Units of analysis. The primary units of analysis were educational institutions, teaching practices, and student learning outcomes. Indicators such as continuity of instruction, student engagement, and teacher retention were used to evaluate resilient strategies [9]. These indicators provided measurable evidence of the effectiveness of resilience pedagogy in maintaining educational quality during crises [10].

In summary, the methodological approach of this study combines historical, bibliometric, and case-based analysis to provide a comprehensive understanding of resilient pedagogy. By integrating multiple methods, the research ensures both theoretical rigor and practical relevance, laying the foundation for the presentation of material and main results [11].

presentation of material

Presentation of Research Material and Main Results.

1. Psychological Dimension of Resilient Pedagogy.

The psychological resilience of teachers and students is a decisive factor in sustaining education during crises. Surveys conducted across European universities indicate that approximately 68% of institutions introduced formal counseling services during the pandemic period, while 54% implemented peer-support networks [13]. In North America, individualized mentoring programs reached 47% of students, with reported improvements in engagement levels of up to 32% compared to institutions without such initiatives [14].

Asian contexts demonstrate even stronger integration of community values: in Japan and South Korea, over 70% of universities embedded

collective responsibility programs, such as group resilience workshops, into their curricula [15]. These findings confirm that psychological resilience is not peripheral but central to resilient pedagogy. Institutions that neglect this dimension show a 25–30% lower retention rate among teachers during crises [16].

2. Technological Dimension of Resilient Pedagogy.

Digital adaptation remains one of the most visible aspects of resilient pedagogy. Data from comparative studies reveal that 82% of European universities transitioned fully online within two weeks of crisis onset, supported by state-funded platforms [17]. In North America, 65% of institutions relied on commercial learning management systems, but only 41% reported equitable access for all students [18].

Asian universities, particularly in South Korea, achieved 90% student participation in mobile-based learning networks, demonstrating the effectiveness of community-driven digital solutions [19]. However, disparities remain: in developing countries, only 35–40% of students reported reliable access to digital resources [20].

The results highlight that technological resilience is not only about infrastructure but also about pedagogical integration. Institutions that combined digital adaptation with teacher training in online didactics reported 25% higher student satisfaction rates compared to those relying solely on technology [21].

3. Organizational Dimension of Resilient Pedagogy.

Organizational resilience refers to the ability of institutions to restructure governance, curriculum, and assessment in response to crises. Comparative data show that 58% of European universities adopted flexible assessment policies, such as open-book exams and project-based evaluations [22]. In North America, 72% of institutions decentralized decision-making, allowing faculties to design tailored resilience strategies [23].

Asian contexts demonstrate strong alignment with cultural traditions: in China and Japan, over 80% of institutions integrated collective responsibility into organizational policies, ensuring that resilience strategies were community-driven [24]. Institutions that adopted holistic organizational resilience achieved 30% higher continuity of operations compared to those with fragmented approaches [25].

To summarize the comparative findings, the resilience strategies across regions are presented in *Table 1*.

Table 1

Comparative Table: Resilient Strategies in Higher Education

Dimension	Europe	North America	Asia
Psychological	~68% of institutions introduced counseling services; peer-support widely used [13][14]	~47% of students reached via mentoring; engagement improved by ~32% [14][15]	~70% of universities embedded collective workshops/community values [15][16]
Technological	~82% transitioned online within 2 weeks; state-funded open platforms ensured equity [17]	~65% relied on commercial LMS; only ~41% reported equitable access [18]	~90% student participation in mobile-based networks; community-driven solutions [19]
Organizational	~58% adopted flexible assessment (open-book, projects); centralized state support [22]	~72% decentralized governance; faculties tailored resilience strategies [23]	~80% integrated collective responsibility into policies; strong community alignment [24]
Narrative	Limited integration of narrative approaches; focus on policy frameworks [29]	Narrative pedagogy emerging in some institutions; emphasis on individual resilience [27]	Narrative + collective identity widely embedded; cultural traditions reinforce resilience [27][28]

As shown in *Table 1*, European institutions emphasize state support and digital infrastructure, North American institutions prioritize decentralization and individualized approaches, while Asian institutions integrate collective values and mobile technologies. This confirms the multidimensional nature of resilient pedagogy. *Table 1* demonstrates the distribution of dimensions of resilient pedagogy across surveyed institutions, with psychological support and technological adaptability emerging as the most frequently reported strategies.

To complement these quantitative results, *Figure 1* illustrates the multidimensional framework of resilient pedagogy, integrating psychological, technological, organizational, and narrative approaches.

As shown in *Figure 1*, resilient pedagogy is not a single strategy but a synthesis of overlapping dimensions. The intersection highlights how institutional continuity depends on the integration of support systems, Psychological, Technological, Organizational, and Narrative dimensions. *Table 1* demonstrates the distribution of dimensions of



Fig. 1. Multidimensional framework of resilient pedagogy (author's elaboration)

resilient pedagogy across surveyed institutions, with psychological support and technological adaptability emerging as the most frequently reported strategies. To complement these quantitative results, *Figure 1* illustrates the multidimensional framework of resilient pedagogy, integrating psychological, technological, organizational, and narrative approaches. As shown in *Figure 1*, resilient pedagogy is not a single strategy but a synthesis of overlapping dimensions. The intersection highlights how institutional continuity depends on the integration of Psychological, Technological, Organizational, and Narrative dimensions.

The integration of quantitative data (*Table 1*) and the conceptual framework (*Figure 1*) provides a comprehensive understanding of resilient pedagogy. This synthesis highlights the author's role in designing, structuring, and interpreting the multidimensional model, which serves as the foundation for the subsequent discussion of individual contributions.

4. Author's Contribution.

The author's original contribution lies in synthesizing psychological, technological, organizational, and narrative dimensions. While previous studies have examined these dimensions separately, this research integrates them into a coherent model that demonstrates how resilience in education emerges from their interaction. The framework moves beyond existing literature by highlighting the importance of narrative practices as a fourth dimension that strengthens identity, motivation, and community in times of crisis. This multidimensional synthesis provides both theoretical novelty and practical applicability, offering institutions a structured approach to embedding resilience into everyday teaching and governance. In doing so, the study advances the discourse on resilient pedagogy from fragmented strategies toward a comprehensive paradigm that can guide educational systems worldwide.

Limitations and Future Research. Despite the comprehensive scope of this study, several limitations must be acknowledged. First, the analysis relies primarily on secondary sources, including bibliometric reviews and case studies documented in international publications. While these sources provide valuable insights, they may not fully capture the lived experiences of educators and students in diverse crisis contexts [29]. Second, the comparative framework focuses on Europe, North America, and Asia, which, although representative of major educational systems, does not encompass perspectives

from Africa, Latin America, or smaller regional contexts where resilience strategies may differ significantly [30]. Third, the quantitative indicators presented in the study are drawn from reported institutional data and surveys, which may be subject to methodological inconsistencies or regional biases [31].

Future research should therefore pursue several directions. Longitudinal studies are needed to assess the sustained impact of resilient pedagogy on student outcomes and teacher well-being beyond immediate crisis periods [32]. Expanding comparative analysis to underrepresented regions would enrich the global discourse and highlight culturally specific resilience practices. In addition, mixed-methods research combining bibliometric analysis with interviews, ethnographic studies, and institutional policy reviews would provide a more nuanced understanding of resilient pedagogy in practice. Finally, future investigations could explore the integration of emerging technologies - such as artificial intelligence, immersive learning environments, and adaptive assessment systems - into resilient pedagogy, evaluating their potential to enhance adaptability and inclusivity in times of crisis.

Conclusions. This study confirms that resilient pedagogy is a multidimensional framework that integrates psychological, technological, organizational, and narrative dimensions to sustain the continuity and quality of education in times of crisis. Unlike previous approaches that treated these dimensions separately, the research demonstrates their interdependence and highlights the importance of narrative practices in strengthening identity, motivation, and community.

The author's original contribution lies in synthesizing these four dimensions into a unified framework that reframes education as an adaptive ecosystem rather than a reactive response. This framework advances the discourse on resilient pedagogy by offering both theoretical novelty and practical applicability. It positions resilience not as an emergency measure but as a structural principle of educational design, capable of guiding institutions through uncertainty while maintaining integrity and inclusiveness.

The practical significance of the study is reflected in its recommendations for policymakers, educators, and institutions: embed psychological support into everyday teaching, integrate digital adaptability as a permanent feature of instruction, restructure governance for

flexibility, and cultivate narrative practices that sustain motivation and community. Together, these strategies form a comprehensive paradigm of resilient pedagogy that ensures education remains stable, adaptive, and transformative even in times of profound disruption.

At the same time, the study acknowledges certain limitations. The comparative analysis was based on selected regions and countries, which may not fully capture the diversity of resilience practices worldwide. Future research should expand to underrepresented contexts, including Africa, Latin America, and smaller educational systems, to test the applicability of the proposed framework across different cultural and institutional settings. Moreover, longitudinal studies are needed to evaluate the long-

term impact of resilient pedagogy on student outcomes, teacher well-being, and institutional sustainability.

In conclusion, resilient pedagogy should be understood not as a temporary response to crisis but as a proactive paradigm for the future of education. Its scientific novelty lies in reframing education as an adaptive ecosystem, while its practical value is evident in actionable strategies that can be embedded into everyday practice. By integrating psychological, technological, organizational, and narrative dimensions, resilient pedagogy offers a comprehensive model that can guide educational institutions worldwide in building systems that are not only crisis-proof but also transformative, inclusive, and future-oriented.

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*Автор заявляє, що конфлікту інтересів щодо публікації цього рукопису немає.
В роботі не використано ресурс штучного інтелекту*

Отримано: 07.09.2025

Переглянуто: 11.10.2025

Прийнято: 18.10.2025

Опубліковано: 30.11.2025

Лук'яненко Наталія Миколаївна

викладач кафедри іноземних мов

lukianenko@khadi.kharkov.ua, <https://orcid.org/0009-0007-8836-7788>

Харківський національний автомобільно-дорожній університет

вул. Ярослава Мудрого 25, Харків, Україна, 61002

ПЕДАГОГІКА РЕЗИЛЬЄНТНОСТІ: ПОРІВНЯЛЬНІ ПІДХОДИ ДО НАВЧАННЯ В УМОВАХ КРИЗИ

У статті розглянуто концепт педагогіки резильєнтності як відповідь на виклики, перед якими постають освітні інституції під час кризових явищ, як-от збройні конфлікти, пандемії та масштабні соціальні потрясіння. Проблему окреслено як нагальну потребу забезпечення неперервності освітнього процесу та збереження якості педагогічної діяльності в умовах нестабільності. Актуальність дослідження полягає у зростаючому запиті на адаптивні стратегії навчання, що гарантують психологічне благополуччя здобувачів освіти та професійну стійкість педагогів.

Метою статті є аналіз порівняльних підходів до педагогіки резильєнтності в різних національних та інституційних контекстах із особливою увагою до міжнародних досліджень і практик. Завдання дослідження полягає у виявленні спільних стратегій, висвітленні інноваційних методів та розробленні синтезованої моделі педагогіки резильєнтності, придатної для застосування в різних освітніх середовищах.

Методи дослідження охоплюють компаративно-історичний аналіз, бібліометричний огляд зарубіжних публікацій та кейс-стаді закладів вищої освіти Європи, Північної Америки та Азії. Застосування цих методів дає змогу визначити теоретичні засади, практичні реалізації та міжкультурні варіації педагогіки резильєнтності.

Основні результати дослідження засвідчують, що педагогіка резильєнтності інтегрує психологічну підтримку, цифрову адаптивність та організаційну гнучкість. Порівняльний аналіз показує, що заклади освіти, які впровадили стратегії резильєнтності, досягають вищого рівня залученості студентів, утримання педагогічних кадрів та неперервності навчання в умовах криз. Авторський внесок полягає у пропозиції багатовимірної моделі, яка поєднує нарративні, технологічні та комунітарні підходи до педагогіки резильєнтності.

У висновках підтверджено наукову новизну педагогіки резильєнтності як проактивної, а не реактивної освітньої парадигми. Здобуті результати мають як теоретичне, так і практичне значення, пропонуючи рекомендації для політиків, педагогів та освітніх інституцій, що прагнуть посилити свою здатність протистояти кризам, зберігаючи якість освітнього процесу.

Ключові слова: педагогіка резильєнтності; кризова освіта; порівняльні підходи; підготовка педагогів; освітня неперервність; цифрова адаптація; міжнародні кейс-стаді.

The author declares no conflict of interest regarding the publication of this manuscript.

The work does not use artificial intelligence resources

Submission received: 07.09.2025

Revised: 11.10.2025

Accepted: 18.10.2025

Published: 30.11.2025