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CRITICAL ANALYSIS: WAYS TO FORM PEDAGOGICAL TECHNIQUES

PhD, Sultanov Otabek Sahobiddin ugli
Acting Associate Professor of the Department of Pedagogy and Psychology, UBS,
Otabeksultonov511@gmail.com

Abstract
This article explores the multifaceted nature of pedagogical techniques and the diverse methods through which they can be developed. Pedagogical technique is defined as the combination of communicative, managerial, and psychological strategies employed by educators to foster effective teaching and learning environments. Drawing from contemporary literature and empirical evidence, the study analyzes how methods such as simulation-based training, reflective practice, role-play, and mentorship programs contribute to the professional growth of teachers. The article emphasizes the need for a systematic and context-responsive approach to pedagogical development, incorporating both technological and humanistic perspectives. Practical examples, including results from experimental research conducted in higher education institutions, are presented to highlight the tangible benefits of structured pedagogical technique training. The analysis contributes to the broader discourse on educational reform and teacher competency, offering insights relevant to both practitioners and policymakers.

Keywords: Pedagogical technique; teacher development; simulation training; reflective teaching; mentorship in education; educational innovation; teaching strategies; experiential learning.

Introduction

Pedagogical techniques—the strategic methods teachers use to facilitate learning—are foundational to educational success. The formation of these techniques reflects a complex interplay of educational theories, learner needs, societal demands, and technological advancements. This article critically examines contemporary approaches to the formation of pedagogical techniques, drawing on current academic literature. The aim is to evaluate existing methodologies, question assumptions, and explore innovative trends shaping modern pedagogy.

Historically, pedagogy has evolved from behaviorist models toward constructivist, experiential, and transformative frameworks. Faraz (2024) contrasts traditional pedagogy, rooted in direct instruction and rote learning, with smart classroom-based pedagogy that emphasizes interactivity, digital tools, and student-centered learning. The shift signals a broader move from teacher-centered to learner-centered education.

Spilker-Beed (2025) critiques traditional models, advocating for anti-racist and care-based pedagogies that focus on inclusivity and social-emotional learning. His work underscores that pedagogical technique formation is not neutral but deeply ethical and political. The introduction

of care pedagogy, for instance, aligns instructional methods with the moral imperative of education.

Critical Insight: Most foundational models fail to address the sociopolitical contexts of learning. The inclusion of care and trauma-informed strategies offers a more holistic foundation for technique development.

Modern pedagogical technique formation increasingly incorporates digital tools and AI-driven methodologies. Lin (2025) explores how deep learning algorithms are used to evaluate and improve music pedagogy in universities. Here, data-driven feedback loops help refine instructional strategies dynamically.

Similarly, Löber et al. (2025) present a virtual reality-based system for music education, where students learn drumming and music theory in immersive environments. This innovation exemplifies embodied pedagogy, where sensory and motor experiences are integral to learning.

Tajibayeva (2025) adds to this discourse by discussing multi-platform approaches for enhancing textual comprehension, showing that multimodal instruction improves cognitive engagement.

Critical Perspective: While technologically mediated pedagogies promise scalability and interactivity, they risk reinforcing digital divides. Not all learners have equal access to high-end tools, necessitating hybrid approaches that bridge analog and digital worlds.

Masiliauskienė and Smilgienė (2025) argue that forming pedagogical techniques should involve experiential learning models that embed ecological and cultural awareness. Their research in environmental education demonstrates how learners form deep connections with content through hands-on, real-world engagement.

Kasowska and Kowalski (2025) examine alternative pedagogical traditions such as those of Maria Montessori and Rudolf Steiner, emphasizing individualized learning paths and holistic development. These approaches align with neuroeducation, which considers the neurological development of students in technique formation.

Murtisari (2025) focuses on genre-based interlingual techniques that foster contextual grammar acquisition. This approach marries linguistic theory with contextualized translation exercises, bridging theoretical and practical learning.

Critical Reflection: Culturally grounded pedagogical techniques prevent the imposition of hegemonic practices. However, implementing localized pedagogies in standardized systems remains a challenge, especially in multicultural classrooms.

Visual aids have become central to pedagogical formation strategies, especially in language and early education. Naurazbaeva et al. (2025) demonstrate how visual methods enhance Russian Sign Language acquisition. These techniques support multisensory learning, crucial for diverse learner profiles.

Čolakov (2025) explores how digital aesthetics and 3D modeling can be used with preschool children to support visual literacy. He asserts that integrating visual design into early education promotes both creativity and spatial reasoning.

Moraes (2025), in a case study, warns against the overuse of video content, which can distract more than educate if not guided by pedagogical intent. His balanced perspective urges educators to distinguish between educational media and entertainment media.

Evaluation: The inclusion of visual pedagogy recognizes the diversity of cognitive styles. However, empirical assessment of these methods remains underdeveloped in some educational contexts, warranting further research.

Ekholm (2025) analyzes the moral undercurrents of pedagogical technique through a case study of football-based education. Here, pedagogy becomes a means of disciplining bodies and instilling social order. This approach highlights how pedagogical techniques are often tools of governance as much as education.

Burton (2025) further explores this theme through classical literature and pop culture, showing how pedagogical engagement can blend traditional academic material with contemporary references (e.g., Herakles and Pokémon). These methods aim to make learning relatable, thereby enhancing retention and motivation.

Philosophical Critique: The formation of pedagogical techniques must confront the tension between fostering autonomy and instilling discipline. Overstructured techniques risk stifling critical thinking.

Recent literature promotes hybrid pedagogical models that combine multiple instructional theories. Peskoller (2025) introduces the concept of pedagogical anthropology, where technology, culture, and identity intersect. His work positions technique formation within the technological history of human practices.

Micklitz et al. (2025) present pedagogical strategies using mathematical form factors, suggesting that even in hard sciences, techniques can be made accessible through creative recontextualization. These approaches break disciplinary silos and foster interdisciplinary pedagogy.

Synthesis: The future of pedagogy lies in integration—not only of tools but also of epistemologies. Educators must be trained in multiple paradigms to develop effective, context-responsive techniques.

The literature reveals that forming pedagogical techniques is a multidimensional task influenced by epistemology, technology, ethics, culture, and learner variability. There is a clear trend toward learner-centered, technologically integrated, and ethically grounded pedagogical methods.

Ways to Form Pedagogical Techniques. There are several ways to form Pedagogical Techniques (see Fig.1).

Figure 1. Ways to Form Pedagogical Techniques.

Training sessions and workshops – Simulation-based activities aimed at enhancing pedagogical mastery by allowing educators to practice responding in realistic classroom scenarios.
Reflection and video analysis – Teachers record their lessons and critically evaluate their performance to identify strengths and areas for improvement.
Role-playing – Through role-switching between teacher and student in conflict scenarios, teachers can experiment with different approaches and communication strategies.
Mentorship system – Experienced educators provide support and guidance to novice teachers, facilitating professional development and skill acquisition.

Practical Examples. Research conducted in various universities and schools has shown that students taught by educators with strong pedagogical techniques demonstrate higher academic performance and greater engagement in class (Xolmurodov A. Karimova N. Vygotskiy L.S. Tohirov S.). For instance, an experiment at the Pedagogical University in Tashkent revealed that teachers who underwent a special three-month training program in pedagogical technique improved their teaching effectiveness by 27%.

Conclusion

The formation of pedagogical techniques is a pivotal component of a teacher's professional effectiveness and directly influences student engagement and academic performance. The literature and practical examples reviewed in this article demonstrate that pedagogical competence can be significantly enhanced through targeted methods such as training workshops, reflective video analysis, role-playing activities, and structured mentorship. These approaches not only refine the technical skills of educators but also cultivate emotional intelligence, adaptability, and classroom leadership. Importantly, the article highlights the necessity of integrating both traditional and technology-enhanced methodologies to address the evolving demands of education systems. A sustained and reflective pedagogical practice, supported by institutional infrastructure and academic collaboration, is essential for cultivating skilled, responsive, and innovative educators in today's learning environments.
The development of pedagogical technique is one of the critical determinants of a teacher's professional success. This process requires a systematic approach, consistent practice, and a commitment to self-improvement. The recommendations presented in this article contribute to advancing pedagogical competence within scientific research domains and align with the goals of higher academic standards.

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