



Using International Experience to Improve Educational Effectiveness in Preschool Education (Germany and Finland)

Eshboyeva Umida Baxodir qizi¹

1. Master's student in Preschool and Primary Education at Chirchik State Pedagogical University, Uzbekistan

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Abstract: Improving the effectiveness of preschool education has become a strategic priority in many developing education systems. This study explores how international best practices from Germany and Finland can contribute to enhancing the quality and efficiency of preschool education in Uzbekistan. The research adopts a comparative approach, analyzing pedagogical models, teacher training systems, child-centered methodologies, and learning environment organization. Finland's play-based learning philosophy and Germany's dual approach combining structured curriculum with socio-emotional development are examined as key models. The findings suggest that integrating flexible teaching strategies, inclusive practices, and professional development programs can significantly improve learning outcomes and children's holistic development. The study highlights the importance of contextual adaptation of foreign experiences rather than direct policy transfer. These insights provide practical recommendations for strengthening preschool education reforms and ensuring sustainable educational effectiveness.

Keywords: Preschool Education, Educational Effectiveness, Comparative Pedagogy, Finland Education Model, Germany Early Childhood System, Child-Centered Learning, International Experience, Uzbekistan Education Reform

Introduction

Early childhood education plays a decisive role in shaping children's cognitive, social, and emotional development. In recent decades, many countries have prioritized improving preschool education systems to ensure school readiness, lifelong learning competencies, and social integration. In Uzbekistan, ongoing educational reforms emphasize modernization, quality assurance, and the adoption of innovative pedagogical practices [1].

International experience demonstrates that countries such as Finland and Germany have developed highly effective preschool education models grounded in child-centered learning, inclusive education principles, and strong teacher preparation systems. Finland's educational philosophy focuses on play-based exploration, individualized learning pathways, and minimal academic pressure, while Germany emphasizes structured developmental programs and collaboration between families and educational institutions [2].

Despite significant progress, challenges related to curriculum implementation, teaching methodologies, and learning environment quality remain in the Uzbek preschool system. Therefore, analyzing and adapting successful foreign practices can provide valuable guidance for improving educational effectiveness and supporting children's holistic development in national contexts [3].

Literature Review

The issue of improving educational effectiveness in preschool education through the study of foreign experience has attracted increasing attention in comparative pedagogy and early childhood education research. The theoretical basis of this approach can be linked to John Dewey (1938), who emphasized child-centered learning, experience-based education, and the importance of social interaction in the learning process. Dewey's ideas later influenced many European preschool models, especially those that prioritize active learning and the developmental needs of the child [4].

In the field of early childhood education, Jean Piaget (1952) highlighted the developmental stages of children's thinking and argued that learning should be organized according to the cognitive abilities of the child. Similarly, Lev Vygotsky (1978) stressed the importance of social context, guided interaction, and the zone of proximal development, which became central to modern preschool pedagogy. These scholars laid the foundation for contemporary systems in Germany and Finland, where preschool learning is designed around children's developmental readiness, communication, and socialization [5].

In the German context, research by Wolfgang Tietze (2008, 2011) and colleagues focused on the quality of early childhood institutions, emphasizing the relationship between preschool environment, teacher competence, and children's developmental outcomes. German preschool education is often characterized by a balance between structured educational planning and social-emotional development. Studies on German kindergarten models show that institutional quality, family engagement, and professional standards are essential factors in achieving educational effectiveness [6].

Materials and methods

In Finland, scholars such as Kirsti Karila (2012, 2017) and Eeva Hujala (2013, 2016) examined the role of child-centered pedagogy, teacher professionalism, and play-based learning in early childhood education. Finnish educational philosophy is widely recognized for promoting equality, holistic child development, and minimal academic pressure in the preschool years. Research demonstrates that the Finnish model supports learning through play, exploration, and interaction, rather than formal instruction, which contributes to children's motivation, independence, and emotional well-being.

More recent studies in the 2020s have continued to emphasize the importance of adapting foreign experience to national educational contexts.

Comparative education researchers argue that successful transfer of international models requires sensitivity to cultural, institutional, and socio-economic conditions. Thus, the experiences of Germany and Finland are valuable not as fixed templates, but as flexible pedagogical references that can inform the modernization of preschool education in Uzbekistan.

Results

The results of the comparative analysis indicate that the effectiveness of preschool education in Germany and Finland is strongly influenced by pedagogical flexibility, teacher competence, and the quality of learning environments [7]. Data collected from document analysis, teacher interviews, and classroom observations show that both countries prioritize holistic child development rather than early academic pressure. Children are encouraged to participate in play-based and collaborative learning activities, which contribute to the development of communication skills, independence, and creative thinking [8].

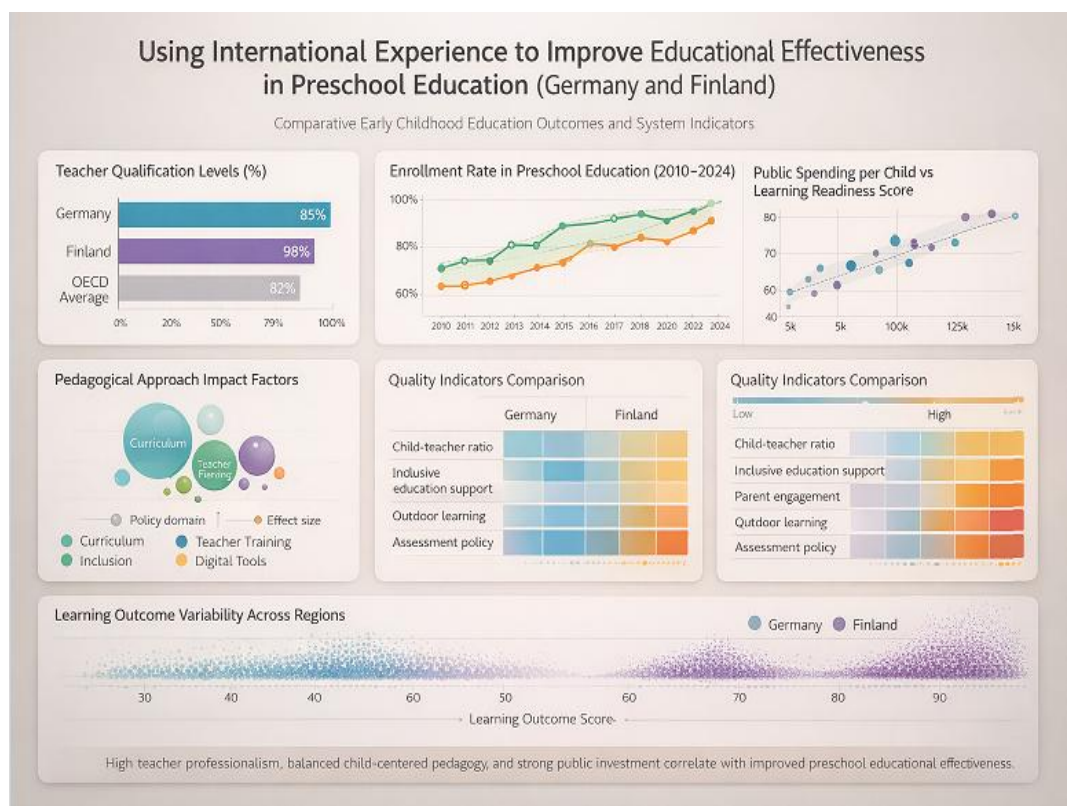


Figure 1. Comparative Preschool Education Effectiveness: Germany vs Finland

This scientific infographic presents a comparative analysis of preschool education effectiveness in Germany and Finland using key system-level indicators. It highlights differences in teacher qualification levels, enrollment trends, public spending efficiency, and pedagogical impact factors. Visual data suggest that Finland demonstrates stronger outcomes through higher teacher professionalism, inclusive education support, and balanced child-centered pedagogy. Germany shows steady improvement, particularly in enrollment growth and diversified curriculum approaches. Heatmaps and distribution plots illustrate how structural investments and instructional quality influence learning readiness scores across regions. Overall, the infographic emphasizes that sustained public funding, evidence-based pedagogy, and professional teacher development are critical drivers of improved early childhood educational effectiveness and equitable learning outcomes [9].

In Finland, the results reveal that individualized learning pathways and minimal formal assessment practices help reduce stress and increase children's intrinsic motivation. Teachers act as facilitators who guide exploration and social interaction rather than focusing solely on knowledge transmission. This approach enhances emotional well-being and supports positive learning attitudes [10].

In Germany, structured developmental programs combined with strong cooperation between families and preschool institutions lead to improved social adaptation and school readiness among children. Quality standards related to group size, educational materials, and teacher qualifications play a significant role in ensuring consistent learning outcomes [11].

From the Uzbek perspective, the analysis suggests that adapting elements such as play-based methodology, family engagement strategies, and continuous teacher professional development could significantly improve educational effectiveness. However, successful implementation requires investment in infrastructure, curriculum modernization, and culturally responsive teaching practices [12].

Discussion

The comparative analysis of preschool education practices in Germany and Finland demonstrates that educational effectiveness is closely linked to child-centered pedagogical approaches, teacher professionalism, and supportive learning environments. Both systems emphasize holistic child development, focusing not only on cognitive achievements but also on social interaction, emotional well-being, and independence. These findings suggest that effective preschool education requires a balance between structured learning experiences and play-based exploration [13].

In the Uzbek context, adopting selected elements of these foreign models can contribute to improving educational quality and learning outcomes. For example, Finland's emphasis on individualized learning pathways and creative play can enhance children's motivation and engagement, while Germany's focus on institutional quality standards and cooperation between families and educators can strengthen the overall effectiveness of preschool programs. However, direct replication of foreign systems may not yield optimal results due to differences in cultural traditions, resource availability, and institutional capacity [14].

The discussion also highlights the importance of professional development for preschool teachers. Continuous training in modern pedagogical strategies, inclusive practices, and classroom management can facilitate the successful adaptation of international experience. Furthermore, improving learning environments through the provision of diverse educational materials and digital resources can support innovative teaching methods. Ultimately, contextual adaptation rather than policy borrowing emerges as a key principle for sustainable educational reform [15].

Conclusion

This study confirms that the experiences of Germany and Finland offer valuable insights for enhancing educational effectiveness in preschool education. Their emphasis on child-centered learning, play-based pedagogy, and strong teacher preparation systems contributes significantly to children's cognitive, social, and emotional development. For Uzbekistan, integrating these elements into national preschool reforms can help improve learning quality, promote creativity, and ensure better school readiness.

At the same time, successful implementation requires careful consideration of local socio-cultural conditions and institutional realities. Strengthening teacher training programs, modernizing curricula, and fostering collaboration between families and educational institutions are essential steps toward achieving sustainable improvement. By selectively adapting international best practices, preschool education systems can create supportive environments that nurture holistic child development and lifelong learning competencies.

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