

Chapter 5

AI–Enhanced Peace Education:

AI's Impact on Student Learning Practices in Higher Education

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ABSTRACT

This chapter investigates the integration of artificial intelligence (AI) in higher education peace programs, examining its effects on student outcomes, engagement, and critical thinking. Employing a concurrent mixed-methods approach, the study collected data from 500 survey respondents and 50 interviewees across five institutions. Quantitative findings reveal significant improvements in learning outcomes, particularly in knowledge acquisition ($d = 0.82$) and critical thinking ($d = 0.70$), with increased student engagement ($d = 0.46$ – 0.61). AI integration emerged as the strongest predictor of learning outcomes ($\beta = 0.41$, $p < .001$). Qualitative analysis highlights AI's potential for enhancing engagement, personalization, and critical thinking, while also identifying implementation challenges and ethical concerns. The study concludes by recommending gradual AI integration, emphasizing personalized learning, and developing ethical guidelines, addressing issues such as technology overload and equitable access in AI-enhanced peace education.

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INTRODUCTION

In an era marked by rapid technological advancements and persistent global conflicts, the intersection of artificial intelligence (AI) and peace education presents a unique opportunity to revolutionize learning practices in higher education. In navigating the complexities of the 21st century, the need for innovative approaches to fostering peace, understanding, and conflict resolution has never been more critical. This chapter explores the transformative potential of AI-enhanced peace education in shaping students' learning experiences and outcomes in higher education institutions.

Peace education, which promotes nonviolence, social justice, and human rights, has long been recognized as a crucial component of holistic education (Bajaj & Hantzopoulos, 2016). However, the traditional approaches to peace education often face challenges in engaging students effectively and addressing the rapidly evolving global landscape. Integrating AI technologies into peace education curricula offers a promising avenue to overcome these limitations and create more dynamic, personalized, and impactful learning experiences.

The significance of this study lies in its exploration of how AI can enhance the effectiveness of peace education in higher education settings. As AI continues to permeate various aspects of human lives, understanding its potential to shape educational practices becomes increasingly important. This research aims to bridge the gap between technological innovation and peace education, providing insights into how AI can be leveraged to cultivate a culture of peace among future generations of leaders, policymakers, and global citizens.

Research Objectives

The primary objectives of this study are:

1. To examine the current state of AI integration in peace education within higher education institutions.
2. To assess the impact of AI-enhanced peace education on student learning outcomes and engagement.
3. To identify the challenges and opportunities associated with implementing AI technologies in peace education curricula.
4. To develop a framework for effectively integrating AI in peace education programs at the higher education level.

Research Questions

To address these objectives, the following research questions guide this study:

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