THE IMPACT OF MODERN TEACHING TECHNOLOGIES ON STUDENT ENGAGEMENT

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Annotation: The integration of technology into education has transformed howstudents learn and how teachers deliver instruction. This paper explores the influence of modern teaching technologies on student engagement, focusing on how digital tools affect motivation, interaction, and performance. References are provided throughout the text.

Key words: technology, engagement, education, innovation.

Introduction. In recent decades, education has undergone a remarkable transformation as digital technologies have become an inseparable part of teaching and learning. Tools such as interactive whiteboards, online learning platforms, and mobile applications have redefined traditional classroom dynamics. Student engagement-often regarded as the foundation of successful learning-has become increasingly linked to these new teaching approaches. The purpose of this paper is to examine how the use of modern educational technologies influences student engagement, highlighting both their potential advantages and the challenges they may bring.

Literature Review. Research shows that technology, when applied effectively, enhances learning by making it more interactive and engaging. According to Mayer(2021), multimedia materials support deeper understanding by combining visual and auditory channels [4, 56-b.]. Learning management systems like Google Classroom and Moodle improve communication and organization, allowing students to access materials and interact with peers and teachers anytime [1, 102-b.; 2, 88-b.]. Johnson et al. (2018) note that gamified learning platforms such as Quizizz and Kahoot increase student motivation by adding elements of competition and instant feedback [3, 45-b.]. However, as Prensky (2010)argues, the success of technology in education depends on how thoughtfully it simpleminded; otherwise, it can distract students and widen inequality [5, 77-b.].

Methodology. This study employs a qualitative approach, analyzing data from academic articles, educational reports, and case studies. It considers findings from previous classroom observations and teacher interviews reported in the

literature [2, 134-b.]. The analysis aims to provide a broad understanding of how modern technologies influence engagement at different educational levels.

Findings and Discussion. The findings reveal that modern technologies generally have a positive impact on student engagement when used properly. Interactive boards and visual media capture attention and make lessons more enjoyable [4, 99-b.]. Mobile learning applications promote autonomy, allowing students to learn at their own pace, while online learning environments foster collaboration and real-time feedback [1, 140-b.]. The integration of virtual and augmented reality helps students visualize abstract scientific concepts, thereby increasing comprehension and interest [3, 75-b.]. Despite these benefits, several challenges remain: lack of teacher training in digital pedagogy and unequal access to devices and internet connection still limit effectiveness [5, 66-b.]. Excessive screen exposure can also reduce face-to-face interaction and communication skills.

Conclusion. Modern educational technologies have brought significant progress to teaching and learning, opening new opportunities for interaction and engagement. When applied meaningfully, they foster critical thinking, creativity, and collaboration among students. However, technology should serve as a complement-not a substitute-for traditional teaching principles. Adequate teacher training and equitable access are essential to ensure effective and inclusive integration [2, 201-b.; 5, 114-b.].

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