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Development of Technology-Based Learning Models to Enhance Critical Thinking Skills in Education Students

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This research focuses on the development of technology-based learning models aimed at enhancing critical thinking skills among education students. The increasing demand for educators to cultivate critical thinking skills in students necessitates innovative pedagogical approaches. This study leverages technology to design an interactive and engaging learning model that fosters the development of critical thinking abilities. The research methodology involves the systematic design and implementation of the technology-based learning model, integrating multimedia elements, interactive simulations, and collaborative online platforms. The study evaluates the effectiveness of the model through a pre-test/post-test design, assessing changes in critical thinking skills among a sample of education students. The results indicate a significant improvement in critical thinking skills after the implementation of the technology-based learning model. The interactive and multimedia-rich components of the model contribute to increased student engagement and active participation. Additionally, the collaborative online platform facilitates peer interaction, allowing students to discuss and analyze complex problems collaboratively. The implications of this study extend to the broader educational landscape, emphasizing the potential of technology-enhanced learning in nurturing essential skills for the 21st-century learner. The findings suggest that integrating technology into education can be a powerful tool for developing critical thinking skills, preparing future educators to effectively guide their students in the cultivation of higher-order thinking abilities.