Lesson Planning and Teaching Strategies Enhanced by Generative AI

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Abstract

Generative AI is transforming lesson planning and teaching strategies by enabling educators to design more personalized, efficient, and innovative learning experiences. AI-powered tools assist teachers in creating structured lesson plans, generating learning objectives aligned with curriculum standards, and developing diverse instructional materials such as quizzes, case studies, and interactive activities. By analyzing student performance data, generative AI supports differentiated instruction, allowing teachers to tailor content to varied learning styles and abilities. It also facilitates real-time feedback, adaptive assessments, and the integration of multimedia resources to enhance student engagement. Furthermore, AI encourages creative pedagogy by suggesting collaborative tasks, problem-based learning scenarios, and interdisciplinary approaches. While generative AI improves efficiency and instructional quality, its responsible use requires digital literacy, ethical awareness, and human oversight to ensure accuracy and inclusivity. Ultimately, generative AI serves as a supportive partner, empowering educators to focus more on mentorship, critical thinking development, and meaningful classroom interaction.

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