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Innovations in Software Engineering Education: An Experimental Study of Integrating Active Learning and Design-based Learning.

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Abstract : Significant advancements have been made in engineering education in recent years. An important outcome of these advancements is the integration and extension of fundamental pedagogies as part of engineering curricula, as well as the need for continued research into the effectiveness of these pedagogies on students' learning within engineering knowledge domains. In this paper, we focus on an engineering educational research study in the domain of software engineering. This study considers the important research question of the efficacy of traditional lecture-homework-project teaching approaches compared to peer-to-peer active learning when combined with design-based learning approaches.

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