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Teaching Method and Systematic Course Monitoring System for "Introduction to Water Resources and Hydropower Engineering"

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Abstract: This paper introduces a teaching method and a systematic course monitoring system for the "Introduction to Water Resources and Hydropower Engineering" course at the School of Water Resources and Environment, China University of Geosciences (Beijing). The method allows students to self-evaluate and self-score their learning, tracks and analyzes data over years, and aims to explore factors affecting student development and improve teaching quality. In the teaching process, teachers use three evaluation methods: standardized fill-in-the-blank questions, subjective evaluations by students, and an anonymous evaluation system to evaluate the teaching effect. Analysis shows that the pandemic has had less impact on students' psychology but significantly affected their knowledge acquisition. Before the pandemic, teaching effectiveness was improved, while during the pandemic, it decreased.

Keywords: Introduction to Water Resources and Hydropower Engineering; Teaching Method; Systematic Course Monitoring System; Self-Evaluation; Pandemic Effect

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