

## The Effect of Computer-Based Formative Assessment on Learning Outcome

**Authors :** Van Thien NGO

**Abstract :** The purpose of the study is to examine the effect of student response systems in computer-based formative assessment on learning outcomes. The backward design course is a tool to be applied for collecting necessary assessment evidence. The quasi-experimental research design involves collecting pre and posttest data on students assigned to the control group and the experimental group. The sample group consists of 150 college students randomly selected from two of the eight classes of electrical and electronics students at Cao Thang Technical College in Ho Chi Minh City, Vietnam. Findings from this research revealed that the experimental group, in which student response systems were applied, got better results than the controlled group, who did not apply them. Results show that using student response systems for technology-based formative assessment is vital and meaningful not only for teachers but also for students in the teaching and learning process.

**Keywords :** student response system, computer-based formative assessment, learning outcome, backward design course

**Conference Title :** ICEIE 2021 : International Conference on Effective and Innovative Education

**Conference Location :** Singapore, Singapore

**Conference Dates :** January 11-12, 2021