Digital Technology in Learning: A Meta-analysis on Reputable Indexed Publications in Indonesia

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ABSTRACT

The rapid development of digital technology has an impact on the interaction of teachers and students in learning activities. Various studies have examined the phenomenon of integration of learning technology with student learning outcomes. This study aims to prove the effect size correlation between technology integration in learning and student learning outcomes. This study uses a quantitative approach through meta-analysis. The research sample uses 30 research articles that examine the integration of technology in learning on student learning outcomes. The samples were obtained from publications published in indexed journals with national reputation in Indonesia (Rank 1 and Rank 2). Data collection is done by documentation and data analysis is done by quantitative analysis through effect size testing. The results of the study show that the integration of technology has a positive correlation with student learning outcomes. The findings regarding the effect size show a coefficient of 0.94. This shows that the magnitude of the effect of digital technology integration variables on learning outcomes is in the very strong category. The findings of this study reinforce the importance of technology integration in learning activities. Digital technology can be integrated both in lesson planning, learning implementation and up to learning evaluation. However, in this study, it was found that there is a potential for publication bias.

Kata Kunci: *Digital Technology, Learning Outcomes, Meta-Analysis, Effect Size, Reputable Indexed Publications in Indonesia*