ABSTRACT

Eneng Siti Juariah Noor, 2025. META-ANALYSIS: THE INFLUENCE OF DIGITAL TECHNOLOGY-BASED LEARNING MEDIA ON STUDENTS' CRITICAL THINKING SKILLS. Master of Mathematics Education Study Program. Postgraduate Programs. Siliwangi University.

This research is motivated by many studies that discuss the influence of digital-based learning media on students' critical thinking skills. To obtain stronger and more comprehensive conclusions, a meta-analysis study was conducted on a number of previous research results. The purpose of this study is to find out the magnitude of the influence of the use of digital-based learning media on students' critical thinking skills, as well as to analyze the influence of moderator factors such as education level, year of publication, and source of publication. The population in this study is all relevant scientific articles, while the sample used is 21 articles with 23 effect data obtained through the Publish or Perish application in the range of 2015–2025. This study uses a quantitative meta-analysis method. The data collection technique was carried out through document review and selection based on inclusion and exclusion criteria. The research instrument is in the form of a coding sheet to identify the characteristics of the study. The data analysis technique used the help of Comprehensive Meta-Analysis (CMA) software to calculate the effect size and test heterogeneity and moderators. The results of the study show that: (1) Digital-based learning media has a significant influence on students' critical thinking skills with an effect size value of 1.086 (high category); (2) The moderator factor at the education level showed a greater influence on the elementary level/equivalent (ES = 1.7396); (3) The moderator factor of the year of publication showed a greater influence on the post-COVID-19 article (ES = 1.1504); and (4) The moderator factor of the publication source showed a greater influence on the article published in the proceedings (ES = 1.3627).

Keywords: meta analysis, digital learning media, critical thinking