

## ABSTRAK

Sinta Laraswati, Ni Made (2022), Meta Analisis Pengaruh Project Based E-Learning Terhadap Kemampuan Pemecahan Masalah. *Tesis*. Singaraja. Teknologi Pembelajaran, Program Pascasarjana, Universitas Pendidikan Ganesha.

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Kata-kata kunci: *project based learning*, *e-learning*, kemampuan pemecahan masalah, *effect size*

Banyaknya studi individu tentang pengaruh model *project based e-learning* terhadap kemampuan pemecahan masalah dengan hasil yang beragam sehingga perlu dieksplorasi untuk menentukan efektivitas dan menggali karakteristik penelitian dalam variasi hasil studi individu. Penelitian ini bertujuan untuk mengetahui pengaruh model *project based e-learning* terhadap kemampuan pemecahan masalah. Kriteria inklusi dan eksklusi telah ditetapkan, terpilih sebanyak lima belas kajian yang relevan untuk dipelajari lebih lanjut mengenai model *project based e-learning* terhadap kemampuan pemecahan masalah. Desain penelitian yang digunakan adalah penelitian meta analisis yang menganalisis artikel ilmiah nasional maupun internasional dengan media digital platform *scimagojr*, *google scholar*, *mendeley*, *web of science*, *sinta ristekdikti*, *scopus*. Adapun tahap-tahap penelitian meta analisis terdiri dari pencarian dan pengambilan artikel, pemfilteran dan penyortiran dan analisis. Metode pengumpulan data yang digunakan adalah studi dokumentasi. Instrumen penelitian yang digunakan dalam penelitian meta analisis adalah lembar pencatatan dokumentasi. Hasil penelitian menunjukkan dari lima belas kajian penelitian yang relevan yang telah diseleksi berdasarkan kriteria inklusi dan dihitung dengan menggunakan meta analisis untuk mengetahui *effect size*. Analisis hasil-hasil penelitian dilakukan secara keseluruhan, berdasarkan jenjang pendidikan, variabel terikat, variabel bebas, kelompok keilmuan dan desain penelitian. Dari analisis yang dilakukan penggunaan model *project based e-learning* berpengaruh besar terhadap kemampuan pemecahan masalah pada kelas eksperimen. Hal ini membuktikan model *project based e-learning* sangat efektif, dengan rata-rata *effect size* secara keseluruhan, yaitu 0,632 dengan simpangan baku sebesar 0,795 yang dikategorikan besar. Sehingga model pembelajaran *project based e-learning* sangat efektif diterapkan pada permasalahan yang kompleks untuk meningkatkan kemampuan pemecahan masalah. Hasil efektivitas model *project based e-learning* tersebut menjadi rekomendasi pengajar dalam memilah penggunaan model pembelajaran inovatif.

## ABSTRACT

Sinta Laraswati, Ni Made (2022), Meta Analysis The Effect Project Based E-learning on Problem Solving Abilities. Thesis. Singaraja. Postgraduate Program, Ganesha University of Education.

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*Key words:* project based learning, e-learning, problem solving ability, effect size

The number of individual studies on the effect of the project based e-learning model on problem solving abilities with varying result needs to be explored to determine their effectiveness and research characteristics. This study was aimed to determine the effect of the project based e-learning model toward problem solving abilities. Inclusion and exclusion criteria had been determined, the fifteen relevant studies had been selected for further study related to the project based e-learning model toward problem solving abilities. The research design was a meta-analysis research that analyzed national and international scientific articles using the digital media platform Scimagojr, Google Scholar, Mendeley, Web of Science, Sinta Ristekdikti, and Scopus. The stages of this meta-analysis research consisted of searching and retrieving articles, filtering, sorting, and analyzing. The data collection method was a documentation study. The research instrument used in this meta-analysis research was the documentation-recording sheet. The result shows that from the fifteen relevant research studies that have been selected based on the inclusion criteria and calculated using meta-analysis to determine the effect size. The analysis of the research's results was carried out as a whole, based on education level, dependent variable, independent variable, scientific group and research design. From the analysis conducted, the use of a project based e-learning model has a significant effect toward problem solving abilities in the experimental class. This proves that the project based e-learning model is strongly effective, with an overall average effect size of 0.632 with a standard deviation of 0.795 which is categorized as large. Thus, the project based e-learning model is highly effective to be applied to complex problems in order to improve the problem solving abilities. The results of the effectiveness of the project-based e-learning model become a teacher's recommendation in sorting out the use of innovative learning model.