

ABSTRAK

MODEL CERIA UNTUK PEMBELAJARAN FISIKA

Oleh

AGUNG SEDAYU

Keterampilan berpikir kreatif merupakan kemampuan esensial dalam pendidikan abad ke-21, khususnya dalam memahami konsep kompleks seperti dinamika rotasi dalam fisika. Penelitian ini bertujuan mengembangkan serta menguji kevalidan, kepraktisan dan keefektifan Model CERIA untuk meningkatkan keterampilan berpikir kreatif siswa SMA. Penelitian ini menggunakan pendekatan *mixed methods* dengan model penelitian dan pengembangan (R&D). Model CERIA secara signifikan efektif dalam meningkatkan keterampilan berpikir kreatif siswa. Aspek *originality* menunjukkan peningkatan paling dominan sebesar 42%, diikuti oleh *elaboration* sebesar 37%, sementara aspek *fluency* dan *flexibility* meningkat masing-masing sebesar 25%-30%. Model CERIA mendorong siswa lebih terlibat aktif dalam diskusi, elaborasi konsep, dan proses pembangunan ide melalui pemanfaatan OER. Selain itu, hasil penelitian menunjukkan bahwa model CERIA efektif diterapkan di lokasi urban, suburban, dan rural, dengan efektivitas yang konsisten di seluruh lokasi. Model CERIA terbukti valid, praktis dan efektif dalam meningkatkan keterampilan berpikir kreatif siswa.

Kata Kunci: Model CERIA, berpikir kreatif, OER, pembelajaran fisika

ABSTRACT

THE CERIA MODEL for PHYSICS EDUCATION

By

AGUNG SEDAYU

Creative thinking skill is one of essential competencies in 21st-century education, especially in understanding complex concepts such as rotational dynamics in physics. This study aimed to develop and to test the validity, practicality, and effectiveness of the CERIA Learning Model in enhancing high school students' creative thinking skill. A mixed methods approach with a research and development (R&D) model was employed. The findings indicated that the CERIA Model was significantly effective in improving students' creative thinking skill. The originality aspect showed the most dominant increase of 42%, followed by elaboration at 37%, while the fluency and flexibility aspects increased by 25%-30%. The CERIA Learning Model encouraged students to be more actively involved in discussions, conceptual elaboration, and the ideation process through the utilization of Open Educational Resources (OER). Furthermore, the results showed that the CERIA model was effectively applied in urban, suburban, and rural locations, with consistent effectiveness across all areas. The CERIA Model has proven to be valid, practical, and effective in enhancing students' creative thinking skill.

Keywords: CERIA Model, creative thinking, OER, physics education