

p-ISSN: 2721-852X; e-ISSN: 2721-7965 IJORER, Vol. 4, No. 1, January 2023 Page 1-15 © 2023 IJORER: International Journal of Recent Educational Research

Preliminary Study of College Students' Creative Thinking Skills on Electromagnetic Material

Ericha Agusepta Marviyani¹, Sukarmin², I. Gusti Made Sanjaya³

1.23 State University of Surabaya, Surabaya, Indonesia



DOI: https://doi.org/10.46245/ijorer

Sections Info

Article history: Submitted: November 23, 2022 Final Revised: January 11, 2023 Accepted: January 16, 2023

Accepted: January 16, 2023 Published: January 31, 2023 *Keywords:*

College students Creative thinking skills Electromagnetic material Learning model / method Preliminary study



ABSTRACT

Objective: This study aims to analyze the initial ability of studen 29 creative thinking skills on electromagnetic materials and find a solution 20 thod of learning model that is suitable to the students conditions. Method: The design of this study was pre-experimental. The dato collection technique used test method using creative thinking skills test instrument. The test instruments used in 🔞 study were tested for validity and reliability before being used. Results: The results of this study showed 13 ferent results. The percentage of fluency indicator is 96.71% with very good 13 egory, the percentage of flexibility indicator is 51.97% with medium category, the percentage of elaboration indicator is 36.18% and originality is 16.45% with less category, and the a 32 ge of all indicators is 50.32% with medium category. Novelty: Students' creative thinking skills can be developed through a variety of methods, including the PjBL model, the Inquiry Social Learning model, PBL combined with Flashcard 16dia, and PjBL integrated with STEM-based elearning. The implications of this study can be used as a reference and basic alternative for future res<mark>3rchers</mark> to design learning tools using specific learning methods/models in order to increase the creative thinking skills of students or college students.

INTRODUCTION

Creativity is crucial to a prospective teacher's success in becoming a competent teacher. Creativity can be a person, a process, a motive, or a product. This stage of the process involves creative thinking (Priyambodo, Probosari, & Indriyanti, 2021). Creative thinking is a (dynamic) mental activity that moves progressively over time and alternative between convergent and divergent thinking (Webster, 1990). Every contained to meet the demands of the twenty-first century. In the context of 21st containing, there are four very crucial talents for every individual to master: critical thinking and problem solving skills, creative thinking, communication, and collaboration (referred to as the 4C skill) (Lestari, 2021). As a result, creative thinking skills become one of the skills that must be well learned.

Creative thinking abilities are required for physical learning. Determinement and confidence in tackling a challenge can be leveloped through creative thinking (Saadah, Hobri, & Irvan, 2019). Individuals with a high level of creativity are able to solve issues (Iskandar, Sastradika, Jumadi, Pujianto, & Defrianti, 2020). Creative thinking skills are required for physics learning. Individuals with creative thinking talents can freely use their imaginations to develop new ideas, new possibilities, and new innovations, which

ORIGINAL	ITY REPORT	
2.5 SIMILAR	3% 17% 15% 3% STUDENT PA	PERS
PRIMARY	SOURCES	
1	journal.unesa.ac.id Internet Source	3%
2	journal.ia-education.com Internet Source	2%
3	www.researchgate.net Internet Source	2%
4	H Rezeki, J Rokhmat, Gunawan, M Makhrus, Wahyudi. "Implementation of causalitic-learning devices to improve creative thinking ability and problem-solving of students in physics", Journal of Physics: Conference Series, 2021 Publication	2%
5	jppipa.unram.ac.id Internet Source	2%
6	journal-center.litpam.com Internet Source	1 %
7	Y Aryanti, Afandi, E S Wahyuni, D A Putra. "Torrance Creative Thinking Profile of Senior High School Students in Biology Learning:	1 %