

IJORER : International Journal of Recent Educational Research Homepage : <u>https://journal.ia-education.com/index.php/ijorer</u> Email : <u>ijorer@ia-education.com</u>

p-ISSN : 2721-852X ; e-ISSN : 2721-7965 IJORER, Vol. 5, No. 2, March 2024 Page 317-333 © 2024 IJORER : International Journal of Recent Educational Research

Development of Physics Learning Media : A Literature Review

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Check for updates	DOI : <u>https://doi.org/10.46245/ijorer.v5i2.558</u>
Sections Info	ABSTRACT ₁₈
Article history:	Objective: The primary objective of this study is to investigate the
Submitted: December 28, 2023	development of physics learning tools by comparing the forms of digital and
Final Revised: February 10, 2024	conventional media, along with their respective impacts. Method: The
Accepted: February 12, 2024	employed methodology involves a comprehensive literature review, defined
Published: March 7, 2024	as an inquiry into scholarly articles, books, and other sources related to the
Keywords:	issue, research field, or specific theory. Literature review is characterized by
Interactive;	providing a general overview, summarization, and evaluation of scholarly
Learning;	works. The research method encompasses multiple steps, including: (1)
Media;	Identifying topics related to Assessment as Learning and metacognitive
Physics;	skills. (2) Searching and selecting relevant articles through Scopus and
Website.	Google Scholar. (3) Analyzing and synthesizing literature. (4) Organizing the
TELEVIS-VIEL	text. Results: The findings reveal the existence of 40 journals elucidating on
- Coxee	physics learning media, encompassing both digital and conventional forms.
87 Bass	Commonly utilized digital learning media include Adobe Flash, websites, e-
1000000000	modules, and interactive tools. Digital learning media is evaluated to
目的である	enhance student learning outcomes and understanding. It enables students
CELOW (CON	to perceive, hear, and interact with the material dynamically, thereby
	triggering a deeper understanding. The effectiveness of learning media has
	been substantiated to improve students' comprehension of physics and also
	heighten their interest in the subject matter. Novelty: This research offers
	insights into designing interactive and modern learning media to enhance
	students' understanding and learning outcomes in physics, contributing to
	the achievement of educational objectives.

INTRODUCTION

Physics learning is a teaching and learning process conducted by educators to contemplate distinctive phenomena through observation and discovery of facts, concepts, standards, and hypotheses that can influence the physics learning process Physics has become a subject that dreaded and disliked by students. This inclination often stems from the student learning groups, creating an impression that physics is a challenging subject, appears very serious, always requires conceptual understanding toward the subject, and a practical perspective (Larsson & Danielsson, 2023; Lathwesen & Belova, 2021; Mawas et al., 2020).

To address these challenges, learning media play a crucial role in preparing physicsrelated learning materials. Media serves as the presentation of data between the source and the recipient. Media can become medium of educational, if it conveys messages or data for educational contains educational goals (Gaol & Sitepu, 2019; Hasanah et al., 2022; Shiong et al., 2023; Sumandiyar et al., 2021; Vera et al., 2022). The development of Industry 4.0 influences the foundation of new innovations in the field of education and has implications that need particular attention, especially in the physics learning process (Bongomin et al., 2020; Elayyan, 2021; Hernandez-de-Menendez et al., 2020; Javaid et al., 2021; Li, 2020). This is particularly related to learning efficiency, time productivity, and other supporting facilities.

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