

**ANALYSIS OF THE LEVEL OF SUITABILITY AND DEPTH OF
MATERIAL IN THE SARASAH KAJAI WATERFALL
PHYSICS EDUPARK E-BOOK IN ACCORDANCE
WITH THE MERDEKA CURRICULUM**

UNDERGRADUATE THESIS

*Submitted as one of the requirements to get a degree of
Bachelor of Education*



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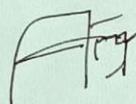
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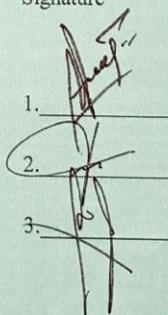
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Hereby declare that my thesis with the title: "Analysis of the level of Suitability and Depth of Physics Material in the Physics Edupark E-book of Sarasah Kajai Waterfall in accordance with the Merdeka Curriculum" is truly my work and is not a plagiarism of other people's work. If at any time it is proven to plagiarize, I am willing to be processed and accept academic and legal sanctions in accordance with applicable laws and regulations, both at Padang State University Institution and in society and State law.

Thus, I make this statement with full awareness and a sense of responsibility as a member of the scientific community.

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ABSTRACT

Etri alga vrimesty : Analysis of the Level of Suitability and Depth of Material in the Sarasah Kajai Waterfall Physics Edupark E-book in accordance with the Merdeka Curriculum

E-books are digital books in electronic form consisting of text, images or both, and are produced or published via computer or mobile. Yunita (2022) has developed a high school physics edupark E-book integrated with Sarasah Kajai Waterfall Destination and a scientific approach to the industrial revolution 4.0 by utilizing the Waterfall as an edupark or educational park. The edupark e-book was developed during the 2013 curriculum and is now implementing the Merdeka curriculum. To find out that the e-book is in accordance with the curriculum, an analysis of the level of suitability and depth of material is carried out in accordance with the current curriculum, namely the Merdeka curriculum. The 2013 curriculum prioritizes learning with a scientific approach while the Merdeka curriculum optimizes content so that students have plenty of time to explore concepts and strengthen competencies. This study aims to determine the level of suitability and depth of material in the Sarasah Kajai Waterfall physics edupark E-book in accordance with the Merdeka curriculum.

The type of research conducted is descriptive research with a qualitative approach. The population in this study were all Physics Edupark E-books. The samples used in this study were the Physics Edupark E-book Sarasah Kajai Waterfall. Data on the suitability and depth of material taken in this study using research analysis instruments and data collection techniques using documentation studies. The results of the level of suitability and depth of material are measured based on suitability and depth of material parameters.

The results showed that the level of suitability of physics material measured based on three dimensions of knowledge (factual, conceptual and procedural) was 84.45% with a very suitable category. Furthermore, the level of depth of physics material assessed based on BSNP indicators is 76.83% in the deep category. The results showed that the material analyzed was very appropriate and deep. However, the description of the material in the Sarasah Kajai Waterfall Physics Edupark E-book has not been described based on content standards in accordance with the Merdeka curriculum. Thus, the Sarasah Kajai Waterfall Physics Edupark E-book can't be applied in schools that have implemented the Merdeka curriculum.

Keywords : E-book, Edupark, Appropriateness of Material, Depth of Material, Sarasah Waterfalls

PREFACE

Praise and gratitude to Alloh SWT, who has bestowed His grace, gifts and guidance so that the thesis entitled Analysis of the Level of Suitability and Depth of Material in the Physics Edupark E-book of Sarasah Kajai Waterfall in accordance with the Merdeka Curriculum can be completed. The writing of this thesis is a requirement in completing the Undergraduate Program (S1) and obtaining a Bachelor of Education degree in the Department of Physics, Faculty of Mathematics and Natural Sciences, Padang State University. This thesis is part of one of the outcomes of Master Thesis Research on behalf of Dr. Hamdi, M.Si., in 2023 funded by DRTPM with contract number 143/E5/PG.02.00.PL/2023 and Padang State University with contract number 2357/UN35.15/LT/2023.

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Padang, September 2024

Writer

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CHAPTER I

INTRODUCTION

A. Background of the Research Problem

Physics is a natural science that studies the interaction between energy and matter which is the basis of natural science. Physics is a science that studies the occurrence of natural phenomena that include material components and their interactions. Physics is built from theoretical laws, concepts, and applications (Eka Erlinawati & Bektiarso, 2019). To study natural phenomena, physics uses a process starting from observation, measurement, analysis, and drawing conclusions. These stages are scientific attitudes that can be carried out in the learning process. Learners are required to understand physics concepts with natural phenomena and find relationships between realities for problem solving by observing these phenomena (Arni Yunita & Rifai, 2023).

Physics learning is one of the science learning that includes the process of understanding basic concepts in physical science and its application in various situations. Physics learning is a process of building knowledge in studying various physical phenomena that occur in the universe and understanding the concepts of science through learning activities that lead to scientific activities. Physics learning is needed to study natural phenomena that require thinking skills, so as to understand the principles and concepts of physics. In order for physics learning to run well, it can be supported with various learning resources, one of which is teaching materials. various learning resources, one of which is physics edupark-based teaching materials.

Physics edupark is a place that has beauty value and can be used as a learning resource. Edupark is a place that has entertainment value (tourism) as well as a place to learn (Lestari & Rifai, 2020). physics edupark is a natural or artificial park that allows for a learning process that can help teachers and students in finding facts, formulating principles and concepts of physics (Rifai, 2019). Learning becomes more enjoyable if a tourist area or tourist destination is chosen as a learning environment. In general, visitors to tourist attractions take advantage of the beauty of nature and travel only for photography, sports such as jogging, hiking, camping, and holding family events or light outdoor activities.

The utilization of Edupark as a learning resource through natural and artificial tourist attractions shows a change in the way of thinking about physics which was previously considered boring, complicated and monotonous, even though physics is also learned in a fun context. There have been many results of the development of physics edupark-based teaching materials carried out, including the development of a physics edupark textbook for Semurup hot springs, Kerinci based on inquiry-based learning for SMA/MA levels (Anggara & Rifai, 2019), development of high school physics edupark e-book class X with a scientific approach integrated with the potential of the Bukik Chinangkiek tourist park area (Lestari & Rifai, 2020), physics e-book design based on the South Solok Hot Waterboom edupark using Flip Pdf Professional for SMA/MA students, and the development of a high school physics edupark e-book integrated with Sarasah Kajai Waterfall

Destination and a scientific approach to the industrial revolution 4.0 (Arni Yunita, 2023).

Among the teaching materials developed are e-books or often known as digital books. E-Books are electronic versions of books that can be read on a laptop screen or other portable devices and can combine features such as images, video, audio, hyperlinks that allow interaction between students and teachers (Wahyuni & Rahayu, 2021). E-books are one of the solutions provided by the government through the Ministry of Education and Culture of the Republic of Indonesia to overcome the high cost of existing books and to reduce logging of forests as one of the raw materials for paper.

The physics edupark e-book of Sarasah Kajai Waterfall with a scientific approach that has been made by Yunita & Rifai (2022) is a newly developed e-book and shows that this physics edupark e-book has been tested for validity and practicality, the test results show that the physics edupark e-book has been valid and practical. However, the edupark e-book was developed during the 2013 curriculum while now it has implemented an Merdeka curriculum. To find out whether the developed edupark e-book is in accordance with the Merdeka curriculum, an analysis of the level of suitability and depth of material in the Sarasah Kajai Waterfall physics edupark e-book with the Merdeka Curriculum is carried out.

B. Identification of the Research Problem

After describing the background of the problem, the following problems can be identified in the study:

1. Physics Edupark based e-books have been developed, but the level of material conformity with the Merdeka Curriculum has not been analyzed.
2. Physics Edupark based e-books have been developed, but the level of material depth has not been analyzed in accordance with the Merdeka Curriculum.

C. Limitation of the Problem

Based on the identification of the problems above, the researcher limits the problems to be studied. The problem restrictions are:

1. The e-book to be analyzed is an e-book by Yunita & Rifai (2022), namely the Physics Edupark of Sarasah Kajai Waterfall, West Pasaman Regency, West Sumatra.
2. Research will be conducted on the level of suitability and depth of physics material in the Sarasah Kajai Waterfall Physics Edupark E-book in accordance with the material in the Merdeka curriculum.
3. The level of material suitability is only measured based on 3 (three) dimensions of knowledge (factual, conceptual, and procedural).
4. The material to be analyzed is the material in the physics Edupark E-book Sarasah Kajai Waterfall Phase F.

D. Formulation of the Research

Based on the background that has been stated, the problem formulations in this study are:

1. What is the level of suitability of physics material in the Sarasah Kajai Waterfall Physics Edupark E-book according to the Merdeka curriculum?

2. What is the level of depth of physics material in the Sarasah Kajai Waterfall Physics Edupark E-book in accordance with the Merdeka curriculum?

E. Purposes of the Research

Based on the problem formulation that has been stated above, the objectives of this study are:

1. To determine the level of conformity of physics material based on the E-book Edupark Physics Sarasah Kajai Waterfall with the Merdeka curriculum.
2. Knowing the level of depth of physics material in the Physics Edupark E-book of Sarasah Kajai Waterfall with the Merdeka curriculum.

F. Benefits of the Research

The benefits of this research are:

1. For researchers, as a provision of knowledge and fulfill one of the requirements to obtain a Bachelor of Education (S.Pd.) degree in the Physics Education Study Program, Physics Department, FMIPA, Universitas Negeri Padang.
2. As a consideration for teachers in using the Sarasah Kajai Waterfall Physics Edupark E-book in the learning process.
3. As a source of reference for other researchers to be able to develop more in-depth research in a broader scope.

CHAPTER V

CLOSING

A. Conclusion

From the results and discussion of the research analysis that has been carried out, it can be concluded that:

1. The level of suitability of Physics material in E-Book Edupark Sarasah Kajai Waterfall based on ATP formulated in the first semester of class XI, namely ATP 11.1 is categorized as “not suitable”, ATP 11.2 is categorized as “suitable”, ATP 11.3 is categorized as “quite suitable”, ATP 11.4 is categorized as “very suitable”, and ATP 11.5 is categorized as “quite suitable”. Meanwhile, in the second semester physics material, ATP ATP 11.7 is categorized as “very suitable” and the other ATPs, namely 11.6, 11.8, 11.9, and 11.10 are categorized as “not suitable” with the physics material of SMA/MA Class XI Merdeka Curriculum.
2. The level of depth of material in the Sarasah Kajai Waterfall Physics Edupark E-book on Work and energy material is categorized as very deep, on static fluid material is categorized as deep, and for dynamic fluid material is categorized as deep.

This shows that the suitability of the material in the Sarasah Kajai Waterfall Physics Edupark E-book is in accordance with the Merdeka curriculum. However, the description of the material in the Sarasah Kajai Waterfall Physics Edupark E-book has not been described based on the content standards of the Merdeka curriculum. Thus, the Sarasah Kajai

Waterfall Physics Edupark E-book cannot be applied as the main book in schools that have implemented the Merdeka curriculum before revision.

B. Suggestions

Based on the research results and conclusions obtained, the researchers put forward the following suggestions:

1. Teachers should need to choose textbooks that have the suitability and depth of material that is in accordance with the learning outcomes with the applicable curriculum and the expected learning objectives.
2. The description of the material in the Sarasah Kajai Waterfall Physics Edupark E-book is not in accordance with the content standards in the Merdeka curriculum, so it is necessary to redesign the Physics Edupark E-book in accordance with the applicable curriculum, namely the Merdeka curriculum.
3. Other researchers, to continue analyzing the suitability and depth of material in other Physics Edupark E-books.

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