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Curriculum Analysis to Evaluate Sustainable Learning in High School Physics Through AI-Based Learning Media for SDG 9

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ABSTRACT

Objective: The objective of this research is to analyze the implementation of the curriculum at SMAN 1 Cerme, Gresik, in order to identify the alignment of learning outcomes with applicable curriculum standards. This study also aims to contribute to achieving the Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education), which emphasizes inclusive and equitable quality education, and SDG 9 (Industry, Innovation, and Infrastructure), which encourages innovation in educational practices. **Method:** This research employs a qualitative descriptive method. Primary data were obtained from interviews and decisions issued by KOSP SMAN 1 Cerme, while secondary data were collected through observations and student response questionnaires. **Results:** The findings reveal that SMAN 1 Cerme applies the K-13 curriculum for grade XII and the Merdeka Curriculum for grades X and XI. The implementation demonstrates the importance of monitoring and evaluation to ensure the curriculum effectively supports the school's vision and mission. **Novelty:** This research's novelty lies in integrating curriculum analysis with the Sustainable Development Goals framework. By linking curriculum implementation to SDG 4 and SDG 9, this study highlights how curriculum transformation not only supports local educational objectives but also contributes to global efforts to promote quality education and foster innovation in learning infrastructure.

INTRODUCTION

In a global world, humans will never be separated from development. In the era of society 5.0, technological developments play a significant role in driving change in increasingly sophisticated times. With today's technological development, society must maximize existing technology. Learning offerings in the 21st Century prioritize human resource professionalism in integrating technology, pedagogy, and operational content knowledge (Oktasari, 2020). One way to compete with current technology is to improve the education system so that the nation's generation becomes more empowered to utilize the technology that has developed. This is based on the objectives of the 1945 Constitution, making the nation's life intelligent is one of the contributions of the nation's generation to advance this country.

In addition, in the context of Sustainable Development Goals (SDGs), technology plays a crucial role in promoting SDG 9, which emphasizes resilient infrastructure development, sustainable industrialization, and innovation. The importance of digital technology and learning media interaction in today's education world not only improves access and effectiveness of the teaching and learning process, but also becomes an innovative instrument to support the achievement of SDG 9 targets, such