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Submission date: 09-Jun-2023 08:54AM (UTC-0400)

Submission ID: 2112470695

File name: Marningot_Development_of_Science_turnitin.docx (2.08M)

Word count: 4531

Character count: 24579

Development of Science, Environmental, Technology, and Community Based on E-Module in Science Subject to Improve Learning Outcomes

Marningot H Silalahi¹, Sahyar², Wawan Bunawan³

^{1,2,3} Basic Education Department, Pascasarjana, Universitas Negeri Medan, Indonesia

Abstract

To find E-Modul for Science subject based on SETS to increase the students learning outcome at Class VII Junior High School SMPN 3 Pulau Rakyat. This type of research is oriented towards research and development (R&D) research that produces products. The steps for the development research used are the Addie development model developed by Dick and Carey. Development of E-Modules based on SETS in Science Learning to Improve Learning Outcomes of Class VII Students of SMPN 3 Pulau Rakyat which were developed valid research and entitled to be used as learning tools for science lessons in class VII. It is also in Science Learning to Improve Learning Outcomes of Class VII Students of SMPN 3 Pulau Rakyat which were developed effectively in improving student learning outcomes in class VII students. E-Modules based on SETS in Science Learning to Improve Learning Outcomes of Class VII Students of SMPN 3 Pulau Rakyat which were developed effectively in improving student learning outcomes in class VII students.

Keyword: E-Modul, SETS, and Science Subject

INTRODUCTION

The survey investigation related to the studying process and learning resources carried out on science teachers in SMPN 3 Pulau Rakyat show that learning materials such as textbooks available in schools are less interesting to read and do not meet the understanding of concepts for students. The results of observations of students in the school also show that students do not like to read the science books provided, because too many explanations, the language is difficult to understand, lack of images and monotons. This is in line with the opinion of Anggi, Harahap, and Lenni (2020) who say that sometimes the book writing is still not good and its contents are difficult to understand by some students. On this premise, the capacity of teachers in planning and compiling a educating fabric he needs and learning assets for understudies do an vital part in deciding the victory of the learning prepare (Depdiknas, 2008).

According to Rasiman and Pramasdyahsari, A.S. (2014) Module is an independent learning package that is made in a structured manner and contains a series of planned studying experiences to help students achieve learning goals. The module work is as a learning apparatus that can offer assistance understudies to be able to memorize freely in agreement with the speed of their claim understandin. The use of educating materials within the shape of electronic modules (e-modules) can also help educators so that students are more active and independent (Rosmawati, R., Mutaqin, A. & Ihsanuddin, 2020). Research conducted by Sofan, A. & Ahmadi, L. K. (2010) provides a conclusion that the developed modules need to be given to students one week before learning takes place so that students can learn at home. This view originated from the saturation of students in

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