ABSTRAK

"PENGEMBANGAN MEDIA PEMBELAJARAN IPA BERBASIS *AUGMENTED REALITY* (AR) PADA PROSES FOTOSINTESIS UNTUK SISWA KELAS IV A"

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Permasalahan utama pada penelitian ini adalah adanya miskonsepsi pada materi Fotosintesis sehingga diperlukan media pembelajaran yang membantu mengatasi miskonsepsi tersebut dengan bantuan *Augmented Reality* (AR). Penelitian ini bertujuan untuk (1) mendeskripsikan hasil pengembangan *Augmented Reality* (AR), dan (2) mendeskripsikan kualitas pengembangan *Augmented Reality* (AR) dan respon ketertarikan siswa terhadap media pembelajaran berbasis (AR) pada topik Fotosintesis kelas IV.

Media pembelajaran dikembangkan menggunakan model *ASSURE* yang terdiri dari (1) *Analyze Learners,* (2) *State Objectives,* (3) *Select Media & Materials,* (4) *Utilize Media &Materials,* (5) *Require Learner Participation,* dan (6) *Evaluate Revise*. Subjek penelitian ini adalah siswa kelas IV A di SD Negeri Gambiranom tahun ajaran 2023/2024 sebanyak 15 siswa.

Kualitas media pembelajaran yang dikembangkan divalidasi oleh dua ahli media dan tiga guru yaitu dengan rata-rata skor (1) 3,17, (2) 3,5, (3) 3,08, (4) 3,58, dan (5) 3,58. Implementasi media pembelajaran dilihat dari hasil kuisioner yaitu pertanyaan kuisioner nomor satu sampai tujuh siswa memilih SS dan S, nomor delapan sampai 10 siswa memilih S, dan nomor 11 sampai 15 siswa memilih SS dan S sehingga media yang telah dikembangkan mampu membuat siswa tertarik untuk belajar materi Fotosintesis dan memudahkan siswa untuk mengikuti proses serta memahami pembelajaran.

Kata kunci: media pembelajaran, Fotosintesis, dan *Augmented Reality*

ABSTRACT

"DEVELOPMENT OF AUGMENTED REALITY (AR) BASED IPA LEARNING MEDIA ON THE PROCESS OF PHOTOSYNTESIS FOR CLASS IV A STUDENTS"

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The main problem in this research is the existence of misconceptions in Photosynthesis material so that the need for learning media that helps overcome these misconceptions with the help of Augmented Reality (AR). This research aims to (1) describe the results of the development of Augmented Reality (AR), and (2) describe the quality of the development of Augmented Reality (AR) and the response of student interest in learning media based (AR) on the topic of Photosynthesis class IV.

The learning media developed using the ASSURE model which consists of (1) Analyze Learners, (2) State Objectives, (3) Select Media & Materials, (4) Utilize Media & Materials, (5) Require Learner Participation, and (6) Evaluate Revise. The subjects of this research were students of class IV A at SD Negeri Gambiranom in the academic year 2023/2024 as many as 15 students.

The quality of the learning media developed was validated by two media experts and three teachers, namely with an average score of (1) 3.17, (2) 3.5, (3) 3.08, (4) 3.58, and (5) 3.58. The implementation of learning media is seen from the results of the questionnaire, namely questionnaire questions number one to seven students chose SS and S, number eight to 10 students chose S, and number 11 to 15 students chose SS and S so that the media that has been developed can make students interested in learning photosynthesis material and make it easier for students to follow the process and understand learning.

Keywords: *learning media, Photosynthesis, and Augmented Reality*