ABSTRAK

Arifin, Rediansyah. 2023. *Pengembangan E-Modul Matematika Berbasis Web Dengan Kode QR Pada Materi Volume Bangun Ruang Kelas V SD.* **Tugas Akhir**, Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Wiraraja, Pembimbing (1) Ratna Novita Punggeti, S.Pd., M.Pd., (2) Ach. Puniman, S.Pd.I., M.Pd.I.

Penelitian ini dilatarbelakangi oleh kesulitan pemahan siswa dan kurangnya penggunaan media pembelajaran dalam proses pembelajaran matematika, hal tersebut dibuktikan dari hasil nilai ulangan harian siswa yang mendapatkan nilai masih di bawah KKM. Tujuan penelitian ini untuk mendeskripsikan serta untuk mengkaji respon siswa kelas V Sekolah Dasar terhadap e-modul matematika berbasis web dengan Kode QR pada materi volume bangun ruang. Penelitian ini menggunakan metode penelitin dan pengembangan *Research and Development (*R&D) dengan model pengembanga yang digunakan adalah model pengembangan ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Adapun tahapan dari model pengembangan ADDIE yaitu (1) analisis *(analyze)*, (2) perancangan *(design)*, (3) pengembangan *(development)*, (4) implementasi *(implementation)* dan (5) evaluasi *(evaluation)*. Namun peneliti hanya menggunakan empat tahapan yaitu (1) *analyze*, (2) *design*, (3) *development*, (4) *implementation* dikarenakan tahap *evaluation* sudah ada di dalam keempat tahapan itu. Data yang diperoleh dari penelitian ini berupa hasil observasi, lembar validasi produk (validasi materi dan validasi media), dan lembar angket respon siswa. Berdasarkan hasil analisis diperoleh hasil validasi materi sebesar 85% dan untuk validasi media sebesar 95% dengan kategori "sangat layak". Sedangkan hasil dari pengisian angket respon siswa mendapatkan rata-rata persentase sebesar 97,86% dengan kategori "sangat baik". Sehingga pengembangan e-modul matematika berbasis web dengan kode QR layak digunakan sebagai media pembelajaran matematika pada materi volume bangun ruang.

Kata Kunci : E-modul, Media Pembelajaran, Bangun Ruang

ABSTRACT

***Arifin, Rediansyah. 2023**. Development of a Web-Based Mathematics E-Module with QR Codes in Building Volume Material for Class V Elementary Schools. **Final Project**, Elementary School Teacher Education Study Program, Faculty of Teacher Training and Education, Wiraraja University, Supervisor (1) Ratna Novita Punggeti, S.Pd., M.Pd., (2) Ach. Puniman, S.Pd.I., M.Pd.I.*

This research is motivated by students' comprehension difficulties and the lack of use of instructional media in the mathematics learning process, this is evidenced by the results of students' daily test scores whose grades are still below the KKM. The purpose of this study was to describe and to examine the responses of fifth grade elementary school students to web-based mathematics e-modules with QR codes on volume material. This study uses the Research and Development (R&D) research and development method with the development model used is the ADDIE development model (Analysis, Design, Development, Implementation, Evaluation). The stages of the ADDIE development model are (1) analysis, (2) design, (3) development, (4) implementation and (5) evaluation. However, researchers only use four stages, namely (1) analyze, (2) design, (3) development, (4) implementation because the evaluation stage is already in the four stages. The data obtained from this study were in the form of observations, product validation sheets (material validation and media validation), and student response questionnaire sheets. Based on the results of the analysis, the material validation results were obtained by 85% and for media validation by 95% in the "very feasible" category. While the results of filling out the student response questionnaire get an average percentage of 97.86% in the "very good" category. So that the development of a web-based mathematics e-module with a QR code is suitable for use as a medium for learning mathematics in volume material.

***Keywords** : E-module, Learning Media, Build Space*