

ABSTRAK

Farihatun Nisa'. 2021. Pengembangan Bahan Ajar Edumat (Edukasi Matematika) Berbasis Digital Pada Materi Bangun Datar Sebagai Pendamping Muatan Matematika SD, *Skripsi*. Program Studi Guru Sekolah Dasar. Fakultas Keguruan dan Ilmu Pendidikan, Universitas Islam Sultan Agung. Pembimbing I : Nuhyal Ulia, S.Pd.,M.Pd., Pembimbing II : Dr. Rida Fironika Kusumadewi, S.Pd.,M.Pd.

Penelitian ini berfokus pada pengembangan bahan ajar interaktif berbasis digital materi bangun datar. Kurangnya ketersediaan bahan ajar dan pemanfaatan teknologi terjadi pada jenjang Sekolah Dasar terutama pada muatan Matematika materi bangun datar. Tujuan dari penelitian ini adalah untuk mengetahui karakteristik dan kelayakan bahan ajar Edumat materi bangun datar muatan Matematika kelas IV SD. Metode yang digunakan adalah penelitian pengembangan (R&D). Penelitian pengembangan ini menggunakan model Borg and Gall yang telah dimodifikasi oleh Sugiyono menjadi 7 tahapan. Berdasarkan hal tersebut diperoleh hasil penelitian antara lain: (1) Tahap perancangan produk yang meliputi potensi dan masalah, pengumpulan data, perangkat pembuatan media dan desain produk. (2) Hasil produk, pada tahap ini menghasilkan produk bahan ajar berbasis digital dengan format (.apk). (3) Hasil uji coba produk yang meliputi validasi desain yang mendapatkan skor rata-rata 0,86 kriteria "Sangat Valid", validasi instrumen angket respon guru dan siswa mendapatkan skor rata-rata 0,87 kriteria "Sangat Valid", hasil uji coba skala kecil mendapatkan respon guru 46 kriteria "Sangat Baik", Sedangkan hasil respon siswa diperoleh rata-rata 43,3 kriteria "Sangat Baik", dan uji skala besar diperoleh hasil respon guru 49 dengan kriteria "Sangat Baik", sedangkan hasil respon siswa diperoleh hasil 46,7 dengan kriteria "Sangat Baik". Berdasarkan hasil, bahan ajar Edumat layak digunakan dalam pembelajaran.

Kata kunci: *Edumat (Edukasi Matematika), bahan ajar digital, muatan Matematika*

ABSTRACT

Farihatun Nisa '. 2021. Development of Digital-Based Edumat (Mathematics Education) Teaching Materials on Flat-Building Materials to Accompany Elementary School Mathematics, Thesis. Primary School Teacher Study Program. Faculty of Teacher Training and Education, Sultan Agung Islamic University. Advisor I: Nuhyal Ulia, S.Pd., M.Pd., Advisor II: Dr. Rida Fironika Kusumadewi, S.Pd., M.Pd.

This research focuses on developing interactive teaching materials based on digital flat shape materials. The lack of availability of teaching materials and the use of technology occurs at the elementary school level, especially in the Mathematical content of flat shape materials. The purpose of this study was to determine the characteristics and appropriateness of Edumat teaching materials for Mathematics content of grade IV SD. The method used is research and development (R&D). This development research uses the Borg and Gall model which has been modified by Sugiyono into 7 stages. Based on this, the research results obtained include: (1) Product design stage which includes potentials and problems, data collection, media making tools and product design. (2) Product results, at this stage, produce digital-based teaching materials with the format (.apk). (3) The results of product trials which include design validation that get an average score of 0.86, the criteria "Very Valid", the validation of the teacher response questionnaire instruments and students get an average score of 0.87 for the criteria "Very Valid", the results of the trial Small scale get teacher response 46 criteria "Very Good", while the results of student responses obtained an average of 43.3 criteria "Very Good", and large scale test results obtained teacher responses with the criteria "Very Good", while the results of student responses obtained results 46.7 with the criteria "Very Good". Based on the results, Edumat teaching materials are suitable for use in learning.

Keywords: *Edumat (Mathematical Education), digital teaching materials, Mathematics content*