

Silviana Agustin. 2023. *Pengembangan E-Modul Berbasis Pendekatan Matematika Realistik Materi Bangun Ruang Kubus dan Balok Kelas IV*. Skripsi, Program Studi Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan. Universitas Trunojoyo Madura. Rika Wulandari.

ABSTRAK

Tujuan penelitian dan pengembangan ini adalah untuk mengembangkan *e-modul* matematika yang valid, efektif, dan menarik untuk siswa kelas IV Sekolah Dasar pada materi volume kubus dan balok. Penelitian ini menggunakan model pengembangan 4D yang terdiri dari *Define*, *Design*, *Development*, dan *Dissemination*. Berdasarkan penelitian tersebut didapatkan hasil kevalidan pada: (1) ahli bahan ajar sebesar 91,66% (sangat valid), (2) ahli materi sebesar 75% (valid), (2) ahli bahasa sebesar 73,07% (valid), dan ahli desain pembelajaran sebesar 94,11% (sangat valid). Sedangkan untuk keefektifan *e-modul* yang didapatkan dari observasi keterlaksanaan pembelajaran diperoleh persentase sebesar 98,33% (terlaksana), dan ketuntasan klasikal hasil belajar siswa diperoleh persentase sebesar 100%. Kemenarikan *e-modul* didapatkan dari hasil angket respon siswa diperoleh persentase sebesar 89,37% (sangat baik). Hal tersebut menunjukkan bahwa *e-modul* valid, efektif, dan menarik untuk digunakan dalam pembelajaran.

Kata kunci: bahan ajar, kelas IV, model 4D, pengembangan *e-modul* matematika, pendekatan matematika realistik, volume kubus dan balok.

Silviana Agustin. 2023 Development of E-Modules Based on a Realistic Mathematical Approach Material Building Class IV Cubes and Blocks.. Thesis, Elementary School Teacher Education Study Program, Faculty of Education. Trunojoyo University, Madura. Rika Wulandari.

ABSTRACT

The purpose of this research and development is to develop valid, effective, and interesting mathematics e-modules for fourth grade elementary school students on the volume of cubes and blocks. This study uses a 4D development model consisting of Define, Design, Development, and Dissemination. Based on this research, the validity results were obtained for: (1) teaching materials experts 91.66% (very valid), (2) material experts 75% (valid), (2) language experts 73.07% (valid), and learning design experts 94.11% (very valid). As for the effectiveness of the e-module, which was obtained from observing the implementation of learning, a percentage of 98.33% (accomplished) was obtained, and the classical completeness of student learning outcomes obtained a percentage of 100%. The attractiveness of the e-module was obtained from the results of the student response questionnaire, which obtained a percentage of 89.37% (very good). This shows that the e-module is valid, effective, and interesting to use in learning.

Keywords: teaching materials, class IV, 4D models, development of mathematics e-modules, realistic mathematical approaches, volumes of cubes and blocks.