

ABSTRAK

ADE DARMAWAN. 2022. **Pengembangan E- Modul Berbantuan Articulate Storyline 3 untuk Mengeksplor Pemahaman Matematika Peserta Didik pada Materi Bangun Ruang Sisi Datar.** Program Studi Pendidikan Matematika Program Pascasarjana Universitas Siliwangi.

Penelitian ini bertujuan untuk mengembangkan media pembelajaran dalam bentuk e-modul berbasis android berbantuan Articulate Storyline 3 dan mengetahui kelayakan. Metode yang digunakan yaitu metode research and development model Luther Sutopo dengan tahapan Konsep, Desain, Pengumpulan bahan, Pembuatan, Pengujian, dan Penyebaran. Teknik pengumpulan data dilakukan melalui wawancara, kuesioner dan tes pemahaman. Instrumen penelitian menggunakan lembar wawancara pra penelitian, angket penilaian ahli materi dan ahli media, angket respon peserta didik dan soal tes. Data penelitian bersumber dari dua ahli materi dan dua ahli media, serta peserta didik kelas VIII SMP Islam Bina Insan Mandiri Bantarkalong Tasikmalaya. Penelitian ini menghasilkan aplikasi berbasis android dalam bentuk e- modul. E- modul dinilai dari keefektifan penggunaan yang diukur ahli media berdasarkan kualitas teknis, dan ahli materi kualitas isi dan tujuan, dan kualitas instruksional. Hasil Ahli media menyatakan E- Modul masuk pada kategori layak dengan skala 78,75% dan ahli materi menyatakan E- modul masuk pada kategori layak dengan skala 76%, dan berdasarkan angket respon peserta didik pada uji coba penilaian kualitas instruksional menghasilkan kategori yang baik dengan skala 75,15%. Efektifitas e- modul dalam mengeksplor pemahaman matematika pada materi bangun ruang sisi datar masuk kategori tinggi dengan skor 5,1. Jadi penggunaan E- Modul dinyatakan masuk pada kategori layak sehingga efektif dalam mengeksplor pemahaman matematika peserta didik.

Kata kunci: Pengembangan E- Modul, E- Modul berbasis Android, *Articulate Storyline 3*.

ABSTRACT

ADE DARMAWAN. 2022. *Development of Android-based E-Module Assisted by Articulate Storyline 3 to Explore Students' Mathematical Understanding on Flat Sided Space Building*. Mathematics Education Masters Study Program. Pascasarjana. Siliwangi University.

This study aims to develop learning media in the form of android-based e-modules assisted by Articulate Storyline 3 and determine feasibility. The method used is the Luther Sutopo research and development model with the concept stage, design, material collecting, assembly, testing, distribution. Data collection techniques were carried out through interviews, questionnaires and comprehension tests. The research instrument used pre-research interview sheets and questionnaires for assessing material experts and media experts student response questionnaires and test questions. The research data comes from two material experts and two media experts, as well as students of class VIII Islamic Middle School Bina Insan Mandiri Bantarkalong Tasikmalaya. This research produces android-based applications. E-modules are assessed from the effectiveness of their use as measured by media experts based on technical quality, and content and objective quality, and instructional quality experts. Results Media experts stated that the E-Module was in the proper category with a scale of 78.75%. and material experts stated that the E-module was in the proper category with a scale of 76%, and based on the student response questionnaire in the instructional quality assessment trial it produced a good category with a scale of 75.15%. The effectiveness of the e-module in exporting mathematical understanding of the material on flat sided geometric shapes is in the high category with a score 5,1. the use of E-Module is stated to be included in the feasible category so that it is effective in exploring students' understanding of mathematics.

Keywords: Development of E-Module, Android-based E-Module, Articulate Storyline 3.