

LEMBAR PENGESAHAN SKRIPSI

Skripsi yang berjudul : **“Pengembangan Media Pembelajaran Matematika Visual Basic Application for Powerpoint pada Materi ‘Barisan dan Deret’ di Kelas X SMA Negeri 1 Tapa”**

Oleh
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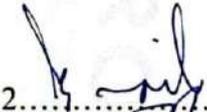
Program Studi Pendidikan Matematika
Fakultas Matematika dan Ilmu Pengetahuan Alam
Telah dipertahankan di depan pembimbing dan dewan penguji

Hari/Tanggal : Kamis, 10 Oktober 2024
Waktu : 13.00 – 14.30 WITA
Tempat : - Luring (Ruang Dosen Matematika)
- Daring (Via Google Meet)

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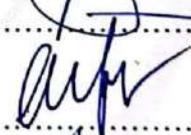

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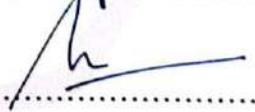

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ABSTRAK

Moh. Alfa Rezi Ali, 411420002, 2024. Pengembangan Media Pembelajaran Matematika *Visual Basic Application for Powerpoint* pada Materi ‘Barisan dan Deret’ di Kelas X SMA Negeri 1 Tapa. **Skripsi.** Gorontalo. Program Studi Pendidikan Matematika, Jurusan Matematika, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Gorontalo.

Pembimbing : (1) **Drs. Sumarno Ismail, M.Pd** (2) **Drs. Yamin Ismail, M.Pd**

Pada proses pembelajaran, penggunaan media pembelajaran oleh guru masih bersifat statis, sehingga sering timbulnya perasaan bosan pada siswa saat dalam belajar. Untuk itu dibutuhkan media pembelajaran yang interaktif guna menarik antusias siswa dalam proses pembelajaran. Penelitian ini bertujuan untuk mengembangkan media pembelajaran matematika *Visual Basic Application for PowerPoint* pada materi barisan dan deret, yang telah diuji kelayakan dan kepraktisannya. Penelitian ini menerapkan model ADDIE yang terdiri dari lima tahap: analisis, desain, pengembangan, implementasi dan evaluasi. Instrumen penelitian meliputi lembar validasi media, lembar validasi materi, angket respon guru dan peserta didik, Para validator ahli telah memvalidasi media pembelajaran ini. Data kelayakan dan kepraktisan dianalisis dengan menghitung rata-rata penilaian. Hasil penelitian mengindikasikan bahwa (1) penilaian kelayakan e-media pembelajaran oleh tim ahli media mencapai 92% (sangat valid) dan oleh tim ahli materi mencapai 91% (sangat valid), dan (2) penilaian kepraktisan oleh guru mencapai 98% (sangat praktis) dan oleh peserta didik mencapai 87% (sangat praktis). Dengan demikian, media pembelajaran matematika *Visual Basic Application for PowerPoint* pada materi barisan dan deret terbukti sangat valid dan praktis

Kata Kunci : Media Pembelajaran; *Visual Basic Application for Powerpoint*; Barisan dan Deret

ABSTRACT

Moh. Alfa Rezi Ali, 411420002, 2024. Development of Visual Basic Application for PowerPoint as a Mathematics Learning Media on the Topic of 'Sequences and Series' in Grade X of SMA Negeri 1 Tapa. **Undergraduate Thesis.** Gorontalo. Study Program of Mathematics Education, Department of Mathematics, Faculty of Mathematics and Natural Sciences. Universitas Negeri Gorontalo.

The supervisors: **(1) Drs. Sumarno Ismail, M.Pd. (2) Drs. Yamin Ismail, M.Pd.**

In the learning process, teachers' use of learning media remains static, often leading to boredom among students during lessons. Therefore, interactive learning media are needed to engage students' enthusiasm in the learning process. This study aimed to develop a Visual Basic Application for PowerPoint as a mathematics learning media on the topic of sequences and series, which has been tested for its feasibility and practicality. The study applied the ADDIE model, which consists of five stages: analysis, design, development, implementation, and evaluation. Research instruments included media validation sheets, material validation sheets, and questionnaires for teacher and student responses. Expert validators have validated this learning media. Furthermore, feasibility and practicality data were analyzed by calculating the average scores. The research results indicate that (1) the feasibility rating of the e-learning media by media experts reached 92% (highly valid), and by material experts reached 91% (highly valid), and (2) the practicality rating by teachers reached 98% (highly practical), and by students reached 87% (highly practical). Thus, the Visual Basic Application for PowerPoint mathematics learning media on sequences and series has been proven to be highly valid and practical.

Keywords: Learning Media; Visual Basic Application for PowerPoint; Sequences and Series

