

**PENGEMBANGAN VIDEO PEMBELAJARAN BERBASIS  
ETNOMATEMATIKA KERAGAMAN BUDAYA BALI PADA  
MUATAN MATEMATIKA SISWA KELAS V SD LAB  
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**Abstrak**

Penelitian pengembangan ini bertujuan untuk mengetahui rancang bangun, kelayakan, dan mengetahui efektivitas Video Pembelajaran Matematika berbasis Etnomatematika pada materi kecepatan siswa kelas V SD di SD Lab Undiksha. Subjek uji coba penelitian ini adalah ahli isi (materi) pembelajaran, ahli desain pembelajaran, ahli media pembelajaran, 3 orang siswa kelas VI di SD Lab Undiksha, 6 orang siswa kelas VI di SD Lab Undiksha, dan 24 siswa kelas V di SD Lab Undiksha. Penelitian ini menggunakan model pengembangan ADDIE (*Analyze, design, development, implementation, evaluation*). Metode pengumpulan data menggunakan metode kuesioner dan metode tes. Teknik analisis data menggunakan teknik analisis data kualitatif, analisis data deskriptif kuantitatif, dan teknik analisis data statistika inferensial (uji-t). Hasil penelitian pengembangan ini adalah produk Video Pembelajaran, meliputi hasil: (1) rancang bangun pengembangan Video Pembelajaran Matematika berbasis Etnomatematika yaitu tahapan analisis, perancangan, pengembangan, implementasi, evaluasi; (2) hasil uji coba produk meliputi: (a) hasil penilaian ahli media pembelajaran memperoleh persentase sebesar 94,79% dengan kualifikasi sangat baik; b) hasil penilaian ahli desain pembelajaran memperoleh persentase sebesar 95,83% dengan kualifikasi sangat baik; (c) hasil penilaian ahli materi memperoleh persentase sebesar 97,41% dengan kualifikasi sangat baik; (d) hasil penilaian siswa melalui uji coba perorangan memperoleh persentase sebesar 97,22% dengan kualifikasi sangat baik; (hasil penilaian siswa melalui kelompok kecil memperoleh persentase sebesar 98,29% dengan kualifikasi sangat baik; (3) efektivitas media Video Pembelajaran Berbasis Etnomatematika dilihat dari uji-t menunjukkan terdapat perbedaan signifikan hasil belajar siswa antara sebelum dan sesudah menggunakan media Video Pembelajaran berbasis Etnomatematika pada muatan Matematika materi kecepatan. Maka dapat disimpulkan media Video Pembelajaran berbasis Etnomatematika efektif digunakan untuk meningkatkan hasil belajar Matematika siswa kelas V SD Lab Undiksha.

Kata kunci: Video Pembelajaran, Matematika, Etnomatematika, ADDIE.

## ABSTRACT

*This development research aims to determine the design, feasibility, and determine the effectiveness of Ethnomatematics-based Mathematics Learning Videos on speed material for fifth grade elementary school students at SD Lab Undiksha. The subjects of this research trial were learning content (material) experts, instructional design experts, learning media experts, 3 grade VI students at SD Lab Undiksha, 6 grade VI students at SD Lab Undiksha, and 24 grade V students at SD Lab Undiksha . This study uses the ADDIE development model (Analyze, design, development, implementation, evaluation). The data collection method uses the questionnaire method and the test method. Data analysis techniques used qualitative data analysis techniques, quantitative descriptive data analysis, and inferential statistical data analysis techniques (t-test). The results of this development research are Learning Video products, including the results of: (1) the design and development of Ethnomatematics-based Mathematics Learning Videos, namely the stages of analysis, design, development, implementation, evaluation; (2) the results of product trials include: (a) the results of the evaluation of learning media experts obtained a percentage of 94.79% with very good qualifications; b) the results of the learning design expert's assessment obtained a percentage of 95.83% with very good qualifications; (c) the results of the material expert's assessment obtained a percentage of 97.41% with very good qualifications; (d) the results of student assessments through individual trials obtained a percentage of 97.22% with very good qualifications; (the results of the assessment of students through small groups obtained a percentage of 98.29% with very good qualifications; (3) the effectiveness of the Ethnomatematics Based Learning Video media seen from the t-test showed that there were significant differences in student learning outcomes between before and after using the Ethnomatematics Based Learning Video media on the mathematics content of speed material, it can be concluded that Ethnomatematics-based learning video media is effectively used to improve mathematics learning outcomes for fifth grade students at SD Lab Undiksha.*

*Keywords: Learning Video, Mathematics, Ethnomatematics, ADDIE.*



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