

**PENGEMBANGAN E-MODUL INTERAKTIF BERBASIS
SCIENTIFIC APPROACH DALAM PEMBELAJARAN MUATAN IPA
PADA SISWA KELAS VI SD NEGERI 1 PADANGBULIA TAHUN
PELAJARAN 2022/2023**

Oleh

Kurnia Sotatema Lase, NIM 1911021027

Program Studi Teknologi Pendidikan

ABSTRAK

Penelitian pengembangan ini bertujuan untuk mengetahui rancang bangun, kelayakan, dan efektivitas e-modul interaktif berbasis *scientific approach* dalam pembelajaran muatan IPA pada siswa kelas VI SD Negeri 1 Padangbulia. Penelitian ini menggunakan model pengembangan ADDIE (*analyze, design, development, implementation, and evaluation*). Metode pengumpulan data menggunakan metode kuesioner dan metode tes. Subjek uji coba penelitian ini adalah ahli isi mata pelajaran, ahli desain pembelajaran, ahli media pembelajaran, uji perorangan, uji kelompok kecil dan siswa kelas VI di SD Negeri 1 Padangbulia. 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 e-modul interaktif, meliputi hasil: (1) rancang bangun pengembangan e-modul interaktif berbasis *scientific approach* yaitu tahapan analisis, perancangan, pengembangan, implementasi, dan evaluasi; (2) hasil uji coba produk meliputi: (a) hasil penilaian ahli isi mata pelajaran memperoleh persentase sebesar 85,33% dengan kualifikasi baik, (b) hasil penilaian ahli desain pembelajaran memperoleh persentase sebesar 95,71% dengan kualifikasi sangat baik, (c) hasil penilaian ahli media pembelajaran memperoleh persentase sebesar 92,5% dengan kualifikasi sangat baik, (d) hasil *review*/penilaian dari siswa melalui uji coba perorangan memperoleh persentase sebesar 92% dengan kualifikasi sangat baik, dan (e) hasil penilaian dari siswa melalui uji coba kelompok kecil memperoleh persentase sebesar 95,77% dengan kualifikasi sangat baik; (3) e-modul interaktif berbasis *scientific approach* efektif digunakan untuk meningkatkan hasil belajar IPA siswa kelas VI SD Negeri 1 Padangbulia.

Kata Kunci: E-modul Interaktif, IPA, *Scientific Approach*, ADDIE

**DEVELOPMENT OF INTERACTIVE E-MODULES BASED ON
SCIENTIFIC APPROACH IN SCIENCE LEARNING CONTENT IN CLASS
VI STUDENTS OF SD NEGERI 1 PADANGBULIA ACADEMIC YEAR
2022/2023**

By

Kurnia Sotatema Lase, NIM 1911021027

Study Program Educational Technology

ABSTRACT

This development research aims to determine the design, feasibility, and effectiveness of scientific approach-based interactive e-modules in learning science content in class VI students at SD Negeri 1 Padangbulia. The test subjects for this research were subject matter experts, instructional design experts, instructional media experts, 3 students of class VII SMP Negeri 1 Singaraja, 9 students of class VII SMP Negeri 1 Singaraja, and 22 students of class VI at SD Negeri 1 Padangbulia. This study uses the ADDIE development model (analyze, design, development, implementation, and evaluation). Methods of data collection using a questionnaire method and test methods. Data analysis techniques used qualitative data analysis techniques, quantitative descriptive data analysis, and inferential statistical data analysis techniques (t-test). The results of this developer's research are interactive e-modules, including the results of: (1) scientific approach-based interactive e-module development design, namely the stages of analysis, design, development, implementation, and evaluation; (2) the results of the products trial include: (a) the results of the review/assessment of subject content experts obtained a percentage of 85,33% with good qualifications, (b) the results of the review/assessment of learning design experts obtained a percentage of 95,71% with very good qualifications, (c) the results of the review/assessment of learning media experts obtained a percentage of 92,5% with very good qualifications, (d) the results of the review/assessment of students through individual trials obtained a percentage of 92% with very good qualifications, and (e) the results of the review/assessment of students through small group trials obtained a percentage of 95,77% with very good qualifications; (3) the effectiveness of scientific approach-based interactive e-module media seen from the t-test shows that there are significant differences in student learning outcomes between before and after using scientific approach-based interactive e-module media on science content. So it can be concluded that interactive e-module media based on scientific approach is effectively used to improve science learning outcomes for class VI students at SD Negeri 1 Padangbulia.

Key words : E-Module, Scientific Approach, ADDIE