

Dewi Suryani. 2022. *Pengembangan Media Web Mobile Learning Berbasis Etnosains pada Materi Konduktivitas*. Skripsi. Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Dosen Pembimbing Rahmad Fajar Sidik, S.Si., M.Si.

ABSTRAK

Pembelajaran IPA dengan berpendekatan etnosains masih jarang diterapkan karena kurang maksimal mengeksplorasi dalam mengintegrasikan materi IPA dalam sains ilmiah. Siswa cenderung kurang menyukai belajar IPA yang berkaitan dengan rumus perhitungan serta minimnya penggunaan media pembelajaran yang berbasis etnosains. Solusi yang dapat diberikan adalah dengan mengembangkan media *web mobile learning* berbasis etnosains pada materi konduktivitas. Tujuan dalam penelitian ini adalah untuk mengetahui kelayakan, keterbacaan, dan respons siswa terhadap media. Penelitian ini menggunakan model pengembangan ADDIE (*Analyze, Design, Development, Implementation, dan Evaluation*). Penelitian dilaksanakan di SMP Negeri 2 Kamal kelas VII-A dengan 28 siswa pada semester genap tahun ajaran 2021-2022. Teknik pengumpulan data dengan menggunakan angket validasi ahli media, ahli materi, guru IPA, keterbacaan siswa, serta respons siswa terhadap media. Berdasarkan penelitian dapat disimpulkan bahwa : (1) pengembangan media *web mobile learning* berbasis etnosains pada materi konduktivitas SMP layak digunakan dengan persentase dari ahli media 89.18% dan reliabilitas 93.76%, ahli materi memberikan penilaian dengan kategori layak digunakan dengan skor rata-rata 87.29% dan reliabilitas 95.41%. (2) Keterbacaan memperoleh nilai rata-rata 86.31% dengan kategori sangat baik. (3) Respons siswa dengan nilai rata-rata 88.19% dengan kategori sangat baik.

Kata Kunci : Pembelajaran IPA, etnosains, *web mobile learning*

Dewi Suryani. 2022. *Development of Ethnoscience-Based Mobile Learning Web Media on Conductivity Materials*. Thesis, Science Education Program, Faculty of Education, University of Trunojoyo Madura. The advisor is Rahmad Fajar Sidik, S.Si., M.Si.

ABSTRACT

Science learning with an ethnoscience approach is still rarely applied because it is not optimal in exploring and integrating science material in scientific science. Student tend not to like learning science related to calculation formulas and the lack of use of ethnoscience-based learning media. The solution that can be given is to develop an ethnoscience-based web mobile learning media on the conductivity material. The purpose of this development is to know the advisability, legibility, and responses of student to web mobile learning media. The research uses the ADDIE development model (Analyze, Design, Development, Implementation, and Evaluation). The research was conducted in SMP Negeri 2 Kamal with a sample of 28 students of class VII-A in the even semester of academic year 2021-2022. Data collection techniques using questionnaires are media expert validation questionnaires, material expert validation, science teacher validation, student readability, and student responses to the media. Based on the results of the study concluded that : (1) Development of ethnoscience-based mobile learning web mobile learning media on conductivity material for junior high schools is suitable for use with a percentage of media experts 89.18% and reliability 93.76%, material experts provide an assessment with a suitable category for use with an average score 87.29% and reliability 95.41%. (2) Legibility to get an average score of 86.31% with very good category. (3) Student responses with an average of 88.19% with a very good category.

Keywords: Science learning, ethnoscience, web mobile learning