

ABSTRAK

Rodearna Siregar, NIM 4203121046 (2024). Pengembangan E-Modul Berbasis Kearifan Lokal Pesisir Pantai Timur Sumatera Utara Pada Materi Fluida Statis Berbantuan Flip Pdf Professional di SMA Negeri 14 Medan Tahun Ajaran 2023/2024.

Penelitian ini bertujuan untuk mengembangkan dan menghasilkan bahan ajar berbentuk E-modul yang valid, praktis dan efektif dengan mengintegrasikan kearifan lokal pesisir pantai timur Sumatera Utara pada materi fluida statis menggunakan software Flip Pdf Professional. Penelitian ini dilakukan dengan menggunakan metode R & D (Research and Development) dan model pengembangan ADDIE (Analysis, Design, Development, Implementation, Evaluation). Kevalidan E-modul pada tahap pengembangan dinilai oleh para validator yaitu ahli materi dan ahli media. Kepraktisan E-modul dinilai melalui angket respon guru dan siswa. Keefektifan E-modul diukur menggunakan uji gain ternormalisasi (N-Gain). Uji coba produk terdiri dari uji kelompok kecil dan kelompok besar. Uji kelompok kecil melibatkan 10 siswa, uji kelompok besar melibatkan 20 siswa. Instrumen yang digunakan berupa angket validasi ahli, angket respon guru dan siswa. Pada tahap validasi, hasil penilaian ahli materi memperoleh persentase rata-rata 90,62% dengan kategori sangat valid. Hasil penilaian ahli media memperoleh persentase rata-rata 87% dengan kategori sangat valid. Hasil uji kepraktisan oleh guru memperoleh persentase rata-rata 96% dengan kategori sangat praktis dan uji kepraktisan pada kelompok kecil memperoleh persentase rata-rata 86,43%, pada kelompok besar memperoleh persentase rata-rata 82,95% dengan kategori sangat praktis. Hasil uji keefektifan memperoleh nilai N-Gain pada kelompok kecil yaitu 0,87 dan kelompok besar yaitu 0,92 dengan masing-masing kategori tinggi, sehingga e-modul dikategorikan efektif. Hasil yang diperoleh menunjukkan bahwa E-modul yang dikembangkan sangat valid, sangat praktis, dan efektif digunakan sebagai bahan ajar dalam pembelajaran fisika.

Kata Kunci: E-modul, Kearifan Lokal, Fluida Statis



ABSTRACT

Rodearna Siregar, NIM 4203121046 (2024) Development of E-Modules Based on Local Wisdom on the East Coast of North Sumatra on Flip Pdf Professional Assisted Static Fluid Materials at SMA Negeri 14 Medan for the 2023/2024 Academic Year

This study aims to develop and produce valid, practical and effective E-module teaching materials by integrating local wisdom of the east coast of North Sumatra on static fluid material using Flip Pdf Professional software. This study was conducted using the R & D (Research and Development) method and the ADDIE (Analysis, Design, Development, Implementation, Evaluation) development model. The validity of the E-module at the development stage was assessed by validators, namely material experts and media experts. The practicality of the E-module was assessed through teacher and student response questionnaires. The effectiveness of the E-module was measured using the normalized gain test (N-Gain). The product trial consisted of small group and large group tests. The small group test involved 10 students, the large group test involved 20 students. The instruments used were expert validation questionnaires, teacher and student response questionnaires. At the validation stage, the results of the material expert assessment obtained an average percentage of 90.62% with a very valid category. The results of the media expert assessment obtained an average percentage of 87% with a very valid category. The results of the practicality test by the teacher obtained an average percentage of 96% with a very practical category and the practicality test in small groups obtained an average percentage of 86.43%, in large groups obtained an average percentage of 82.95% with a very practical category. The results of the effectiveness test obtained an N-Gain value in small groups of 0.87 and large groups of 0.92 with each category being high, so that the e-module is categorized as effective. The results obtained indicate that the developed E-module is very valid, very practical, and effective to be used as teaching materials in physics learning.

Keywords: E-module, Local Wisdom, Static Fluids

