

ABSTRAK

Athiyyah Nurul A'lim, 1192080009, 2024;

Pengembangan Multimedia Pembelajaran Pada Materi Pemisahan Campuran Dengan Metode Distilasi

Penelitian ini bertujuan untuk menganalisis kebutuhan dan desain, menganalisis hasil uji validasi dan uji kelayakan, mendeskripsikan tampilan multimedia pembelajaran pada materi pemisahan campuran dengan metode distilasi. Metode yang digunakan adalah *Design Based Research* (DBR) dengan model ADDIE (*Analysis, Design, Development, Impelentation, Evaluation*), namun penelitian ini hanya mencakup tahap analisis, perancangan, dan pengembangan. Instrumen yang digunakan meliputi *flowchart*, *storyboard*, lembar uji validasi, dan lembar uji kelayakan. Tampilan multimedia distilasi mencakup halaman utama, menu, petunjuk penggunaan, profil pengembang, kompetensi dasar, materi, latihan, kesimpulan, refleksi, dan daftar pustaka. Rata-rata nilai r_{hitung} hasil uji validasi pada aspek isi materi, perangkat soal, media, serta pemakaian kata dan bahasa diperoleh masing-masing sebesar 0,76; 0,73; 0,78; 0,76 dan secara keseluruhan diperoleh nilai r_{hitung} sebesar 0,76, sehingga dinyatakan valid dengan interpretasi cukup tinggi. Uji kelayakan kepada 15 mahasiswa pendidikan kimia yang telah menyelesaikan mata kuliah kimia organik I. Rata-rata nilai hasil uji kelayakan dari semua aspek yaitu pemograman, isi, dan tampilan masing-masing 89%; 93,56%; 88,53% dengan, nilai akhir 90,36%. Hal tersebut menunjukkan bahwa multimedia ini sangat layak untuk digunakan sebagai media pembelajaran.

Kata Kunci: Multimedia, Pemisahan Campuran, Distilasi, Media Pembelajaran, Model ADDIE

ABSTRACT

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Development of Learning
Multimedia on the Material
of Separation of Mixtures by
Distillation Method

This study aims to analyze the needs and design, analyze the results of validation tests and feasibility tests, describe the appearance of multimedia learning on the material of separating mixtures using the distillation method. The method used is Design Based Research (DBR) with the ADDIE model (Analysis, Design, Development, Implementation, Evaluation), but this study only covers the analysis, design, and development stages. The instruments used include flowcharts, storyboards, validation test sheets, and feasibility test sheets. The appearance of distillation multimedia includes the main page, menu, instructions for use, developer profiles, basic competencies, materials, exercises, conclusions, reflections, and bibliographies. The average r value of the validation test results on the aspects of material content, question sets, media, and the use of words and language were obtained respectively at 0.76; 0.73; 0.78; 0.76 and overall the r value obtained was 0.76, so it was declared valid with a fairly high interpretation. Feasibility test on 15 chemistry education students who have completed the organic chemistry I course. The average value of the feasibility test results from all aspects, namely programming, content, and display, is 89%; 93.56%; 88.53% with a final value of 90.36%. This shows that this multimedia is very feasible to be used as a learning medium.

Keywords: Multimedia, Separation of Mixtures, Distillation, Learning Media, ADDIE model