

Rumman Azis. 2025. *Pengembangan Media Pembelajaran Berbasis Augmented Reality pada Materi Teknologi Fiber Optik*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing : Prita Dellia, S.Kom., M.Kom.

ABSTRAK

Abstrak: Penelitian ini bertujuan untuk mengembangkan dan mengevaluasi kelayakan media pembelajaran berbasis *Augmented Reality* pada materi teknologi fiber optik untuk siswa kelas X SMKS Al-Baisuny. Media ini dirancang menggunakan model pengembangan ADDIE (*Analysis, Desain, Development, Implementation, Evaluation*). Tahap analisis meliputi analisis kebutuhan, analisis tujuan, analisis peserta didik, dan analisis sumberdaya. Pada tahap desain, dibuat alur pengembangan media pembelajaran dan desain tampilan media pembelajaran. Tahap pengembangan melibatkan persiapan alat dan bahan, bahan yang telah tersedia akan diolah menggunakan alat yang telah disiapkan, kemudian media yang telah selesai dilakukan uji kelayakan media dan materi untuk mengukur kelayakan media. Hasil uji coba ahli media mendapatkan persentase 90% kategori sangat layak, dan uji coba ahli materi mendapatkan persentase 88% kategori sangat layak. Media yang dihasilkan kemudian diuji implementasi terhadap uji coba perorangan sebanyak 2 orang yang mendapatkan persentase 89% kategori sangat layak, uji coba kelompok kecil sebanyak 6 orang yang mendapatkan persentase 91% kategori sangat layak, dan uji coba kelompok besar sebanyak 12 orang yang mendapatkan persentase 91,83% kategori sangat layak. Terakhir, tahap evaluasi dilakukan untuk mengukur kelayakan media dari validitas ahli materi dan ahli media, serta dari respon pengguna. Hasil penelitian menunjukkan bahwa media pembelajaran berbasis AR yang dikembangkan sangat layak digunakan.

Kata-kata kunci: Media Pembelajaran, *Augmented Reality*, Model ADDIE, Fiber Optik

Rumman Azis. 2025. Development of Augmented Reality-Based Learning Media on Fiber Optic Technology Material. Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, University of Trunojoyo Madura. Supervisor: Prita Dellia, S.Kom., M.Kom.

ABSTRACT

Abstract: This research aims to develop and evaluate the feasibility of Augmented Reality-based learning media on fiber optic technology material for 10th-grade students of SMKS Al-Baisuny. This media was designed using the ADDIE development model (Analysis, Design, Development, Implementation, Evaluation). The analysis phase included needs analysis, objective analysis, learner analysis, and resource analysis. In the design phase, the learning media development flow and learning media display design were created. The development phase involved preparing tools and materials, processing the available materials using the prepared tools, and then conducting media and material feasibility tests on the completed media. The results of the media expert validation test obtained a percentage of 90% in the very feasible category, and the material expert validation test obtained a percentage of 88% in the very feasible category. The resulting media was then subjected to implementation tests: an individual trial with 2 participants obtained a percentage of 89% in the very feasible category, a small group trial with 6 participants obtained a percentage of 91% in the very feasible category, and a large group trial with 12 participants obtained a percentage of 91.83% in the very feasible category. Finally, the evaluation phase was carried out to measure the media's feasibility based on the validity from material experts and media experts, as well as user responses. The research results indicate that the developed AR-based learning media is highly feasible for use.

Keywords: *Learning Media, Augmented Reality, ADDIE Model, Fiber Optic*