

ABSTRAK

Abdulloh (5202111005) Pengembangan Video Tutorial Berbasis Leonardo AI (*Artificial Intelligence*) Pada Elemen APLPIG Kelas XI DPIB di SMK Negeri 1 Percut Sei Tuan. Skripsi. Fakultas Teknik. Universitas Negeri Medan. 2024

Latar belakang penelitian ini berdasarkan hasil dari analisis kebutuhan siswa, dimana dari analisis kebutuhan tersebut diketahui jika media pembelajaran berbasis video tutorial sangat dibutuhkan siswa dalam pembelajaran mandiri. Tujuan dari penelitian ini untuk memvalidasi media pembelajaran berupa video tutorial berbasis Leonardo AI yang dikembangkan sehingga dapat dijadikan sebagai bahan ajar pada mata pelajaran APLPIG. Penelitian ini menggunakan model pengembangan *four-D* (4D) Thiagarajan, yang terdiri dari tahapan pendefinisian (*define*) perancangan (*design*) pengembangan (*develop*) dan penyebaran (*disseminate*). Tahap pendefinisian berisikan pemilihan media, materi, capaian, dan tujuan pembelajaran dari elemen APLPIG. Tahapan perancangan berisikan penyusunan materi, pembuatan naskah, *storyboard*, dan penyusunan instrumen validasi serta uji efektivitas dan praktikalitas. Tahapan pengembangan berisikan pembuatan media pembelajaran berbasis video tutorial, validasi oleh ahli materi, media, bahasa, pengguna, uji praktikalitas, *one to one*, *small group*, pre test, *field trial*, post test, uji praktikalitas. Dan tahapan penyebaran berisikan penyebaran media pembelajaran kepada guru mapel APLPIG dan di Youtube. Hasil penelitian dari penilaian media pembelajaran berupa video tutorial berbasis Leonardo ai oleh ahli materi memperoleh nilai 4,64% kategori sangat layak, ahli media mendapatkan nilai 4,52% kategori sangat layak, ahli bahasa mendapatkan nilai 4,53% kategori sangat layak, untuk uji praktikalitas mendapatkan 90,6% kategori sangat praktis, uji efektivitas mendapatkan 96% kategori sangat kompeten. Sehingga media pembelajaran berupa video tutorial berbasis Leonardo ai berupa menggambar potongan rumah 2 lantai menurut para ahli dan pengguna dinyatakan sangat layak digunakan serta dikategorikan sangat praktis digunakan

Kata Kunci : Media pembelajaran, Video tutorial, Menggambar potongan, Autocad, Leonardo AI

ABSTRACT

Abdulloh (5202111005) Development of Video Tutorials Based on Leonardo AI (Artificial Intelligence) On Elements APLPIG Class XI DPIB at SMK Negeri 1 Percut Sei Tuan. Thesis. Faculty of Engineering. Medan State University. 2024

The background to this research is based on the results of a student needs questionnaire, from the questionnaire, it is known that video tutorial-based learning media is really needed by students for independent learning. The aim of this research is to validate learning media in the form of video tutorials based on Leonardo AI which were developed so that later they can be used as teaching materials for subjects APLPIG. This research uses a development model four-D (4D) Thiagarajan, which consists of the definition stage (define) planning (design) development (develop) and spread (disseminate). The definition stage contains the selection of media, materials, achievements and learning objectives from the elements APLPIG. The design stage consists of preparing material, creating a manuscript, storyboard, and preparation of validation instruments as well as effectiveness and practicality tests. The development stage consists of creating video tutorial-based learning media, validation by material, media, language, user experts, practicality testing, one to one, small group, pre test, field trial, post test, practicality test. And the distribution stage consists of distributing learning media to field teachers APLPIG and on YouTube. The research results from the assessment of learning media in the form of video tutorials based on Leonardo AI by material experts received a score of 4.64% in the very appropriate category, media experts received a score of 4.52% in the very appropriate category, language experts received a score of 4.53% in the very appropriate category, for The practicality test got 90.6% in the very practical category, the effectiveness test got 96% in the very competent category. So the learning media in the form of video tutorials based on Leonardo AI in the form of drawing pieces of a 2-story house according to experts is declared suitable for use and categorized as very practical to use.

Keywords: *Learning media, video tutorials, drawing pieces, Autocad, LeonardoAI*