

ABSTRAK

Lase, Anugerah. 2025. Pengembangan Media Pembelajaran Berbasis Multimedia Pada Materi Elemen-elemen Struktur Bangunan. Skripsi. Pembimbing Aprianus Telaumbanua, S.Pd., M.Pd.

Ditemukan kendala yang mempengaruhi efektivitas proses belajar mengajar di Kelas X DPIB, SMK Negeri 1 Tugala Oyo, pada pembelajaran Dasar-dasar Desain Pemodelan Informasi Bangunan khususnya materi elemen-elemen struktur bangunan yaitu kurangnya motivasi guru dalam penggunaan media pembelajaran yang interaktif dan inovatif ditandai dengan penggunaan media pembelajaran yang cenderung pasif dan pendekatan pengajaran yang monoton, seperti penggunaan slide PowerPoint yang hanya menampilkan teks, menyebabkan siswa kesulitan memahami materi. Mengatasi masalah tersebut dikembangkanlah media pembelajaran berbasis multimedia yang relevan dalam mencapai tujuan pembelajaran untuk mendukung pembelajaran yang efektif. Tujuan dari Penelitian ini adalah untuk mengembangkan media pembelajaran yang valid, praktis, dan efektif dalam mencapai tujuan pembelajaran pada materi elemen-elemen struktur bangunan. Penelitian ini menggunakan metode Penelitian dan Pengembangan (Research and Development) dengan model ADDIE yang terdiri dari *Analyze* (analisis), *Design* (perancangan), *Development* (pengembangan), *Implementation* (implementasi), *Evaluation* (evaluasi). Instrumen penelitian ini berupa angket validasi, angket respon siswa dan guru, dan tes hasil belajar siswa. Jenis data yang digunakan adalah data kualitatif dan kuantitatif. Data kualitatif berupa komentar dan saran dari para validator ahli. Sedangkan data kuantitatif berupa angka-angka hasil skor angket validasi, respon siswa serta guru, dan tes hasil belajar. Berdasarkan hasil penelitian media pembelajaran dikategorikan sangat valid dengan persentase hasil validasi Ahli Materi sebesar 100%, validasi Ahli Bahasa sebesar 85,45%, dan hasil validasi Ahli Media/Desain sebesar 100%. Selanjutnya media pembelajaran dikategorikan sangat praktis berdasarkan hasil angket respon uji perorangan sebesar 89,33%, uji kelompok kecil sebesar 95,08%, dan hasil angket respon guru sebesar 93,33%. Media pembelajaran dikategorikan sangat efektif berdasarkan hasil tes soal sebesar 96,53%. Sehingga dapat disimpulkan bahwa media pembelajaran berbasis multimedia dinyatakan layak, praktis, dan efektif dalam mencapai tujuan pembelajaran serta memenuhi tujuan penelitian.

Kata Kunci: Media Pembelajaran, Multimedia, Elemen-elemen Struktur Bangunan, Model ADDIE.

ABSTRACT

Lase, Anugerah. 2025. Development of Multimedia-Based Learning Media on Building Structure Elements. Thesis. Supervisor Aprianus Telaumbanua, S.Pd., M.Pd.

Obstacles were found that affected the effectiveness of the teaching and learning process in Class X DPIB, SMK Negeri 1 Tugala Oyo, in learning the Basics of Building Information Modeling Design, especially the material of building structural elements, namely the lack of teacher motivation in the use of interactive and innovative learning media characterized by the use of learning media that tends to be passive and a monotonous teaching approach, such as the use of PowerPoint slides that only display text, causing students to have difficulty understanding the material. To overcome these problems, multimedia-based learning media that is relevant in achieving learning goals to support effective learning is developed. The purpose of this research is to develop valid, practical, and effective learning media in achieving learning objectives in the material elements of building structures. This research uses the Research and Development method with the ADDIE model which consists of *Analyze, Design, Development, Implementation, and Evaluation*. The instruments of this research are in the form of validation questionnaires, student and teacher response questionnaires, and student learning outcome tests. The types of data used are qualitative and quantitative data. Qualitative data is in the form of comments and suggestions from expert validators. Meanwhile, quantitative data is in the form of validation questionnaire score scores, student and teacher responses, and learning outcome tests. Based on the results of the research, learning media is categorized as very valid with a percentage of Material Expert validation results of 100%, Linguists Expert validation is 85.45%, and the results of validation result of Media/Design Expert is 100%. Furthermore, learning media is categorized as very practical based on the results of the individual test response questionnaire of 89.33%, the small group test of 95.08%, and the results of the teacher response questionnaire of 93.33%. Learning media is categorized as very effective based on the results of the question test of 96.53%. So it can be concluded that multimedia-based learning media is declared feasible, practical, and effective in achieving learning objectives and meeting research objectives.

Keywords: Learning Media, Multimedia, Building Structural Elements, ADDIE Model.