

ABSTRAK

WILHELMINARI BR SARAGIH, NIM 4183341030 (2018). Pengembangan Media Pembelajaran Berbasis Android Pada Materi Sterilisasi Alat

Penggunaan media pembelajaran dalam pembelajaran masih terbatas. Hal ini membuat mahasiswa masih sulit dalam memahami materi, karena media pembelajaran yang digunakan dalam proses pembelajaran belum dapat menjelaskan secara detail maupun visualisasinya. Tujuan dari penelitian ini adalah untuk mengetahui analisis kebutuhan mahasiswa, analisis kurikulum, analisis materi pembelajaran, serta analisis mahasiswa, design isi media pembelajaran, tingkat kelayakan produk media pembelajaran dari para ahli serta respon dosen dan mahasiswa dan evaluasi mahasiswa. Metode penelitian yang digunakan R&D, Model ADDIE (Analysis, Design, Development, Implementation, dan Evaluation). Hasil penelitian menunjukkan bahwa Analisis kebutuhan mahasiswa didapati hasil bahwa 80% penggunaan media pembelajaran dalam proses pembelajaran masih terbatas. Pada analisis kurikulum didapati hasil bahwa belum maksimalnya ketercapaian sub CP-MK dalam materi sterilisasi alat, lalu analisis materi didapati hasil bahwa 60% mahasiswa masih sulit dalam memahami materi sterilisasi alat dan Analisis mahasiswa didapati hasil bahwa mahasiswa memiliki tipikal karakteristik yaitu visual, audio dan kinestetik, selanjutnya design isi media pembelajaran terdiri dari: Petunjuk penggunaan, CP-MK, Referensi, Materi, Video sterilisasi alat, Latihan, Profil developer dan Exit. Tingkat kelayakan produk media pembelajaran penilaian ahli materi memperoleh kriteria “sangat layak” dengan persentase 100%, penilaian ahli media diperoleh kriteria “sangat layak” dengan persentase 97% dan penilaian ahli desain pembelajaran diperoleh kriteria “sangat layak” dengan persentase 93,3%. Lalu hasil respon dosen diperoleh 80,83% termasuk kategori sangat layak dan respon mahasiswa diperoleh respon “positif” pada uji coba kelompok kecil dengan persentase sebesar 91,37% dan diperoleh respon “positif” pada uji coba kelompok lapangan terbatas dengan persentase sebesar 92,72%. Tahap evaluasi didapati hasil skor n-gain sebesar 0,60 dengan kriteria “sedang”, hasil penelitian ini menunjukkan bahwa media pembelajaran berbasis android dapat digunakan dalam proses pembelajaran.

Kata Kunci: Pengembangan, Media Pembelajaran, Android, Sterilisasi Alat.

ABSTRACT

WILHELMINARI BR SARAGIH, NIM 4183341030 (2018). Development of Android-Based Learning Media on Tool Sterilization Materials

The use of learning media in learning is still limited. This makes it difficult for students to understand the material, because the learning media used in the learning process cannot explain in detail or visualize it. The purpose of this study was to find out the analysis of student needs, curriculum analysis, analysis of learning materials, and student analysis, design of learning media content, level of feasibility of learning media products from experts as well as lecturer and student responses and student evaluations. The research method used is R&D, the ADDIE Model (Analysis, Design, Development, Implementation, and Evaluation). The results showed that the analysis of student needs found that 80% of the use of learning media in the learning process was still limited. In the curriculum analysis, it was found that the CP-MK sub had not achieved maximum results in material sterilization, then material analysis showed that 60% of students were still difficult to understand material for sterilizing tools and student analysis found that students had typical characteristics, namely visual, audio and kinesthetic, then the design of the contents of the learning media consists of: Instructions for use, CP-MK, References, Materials, Videos of tool sterilization, Exercises, Developer profiles and Exit. The level of feasibility of learning media products in the assessment of material experts obtained the criteria of "very feasible" with a percentage of 100%, the assessment of media experts obtained the criteria of "very feasible" with a percentage of 97% and the assessment of learning design experts obtained the criteria of "very feasible" with a percentage of 93.3%. Then the lecturer response results obtained 80.83% including the very feasible category and student responses obtained "positive" responses in small group trials with a percentage of 91.37% and obtained "positive" responses in limited field group trials with a percentage of 92, 72%. The evaluation stage found the n-gain score of 0.60 with the "moderate" criteria, the results of this study indicate that Android-based learning media can be used in the learning process.

Keywords: Development, Learning Media, Android, Tool Sterilization.