ABSTRAK

Johannes SM Sihite, NIM 4172141024 (2017). Perancangan Dan Pengembangan Video Pembelajaran Biologi Materi Virus Sebagai Bahan Ajar pada Kelas X MIA SMA

Penelitian ini bertujuan untuk merancang dan menghasilkan Video pembelajaran biologi sabagai bahan ajar di kelas X MIA pada materi Virus. Jenis penelitian yang digunakan adalah penelitian dan pengembangan. Subjek dalam penelitian ini adalah Ahli Materi, Ahli Pembelajaran, Ahli Desain, Guru bidang studi dan siswa kelas X MIA SMA Swasta St.Lusia Sei Rotan. Pengumpulan data dilakukan dengan instrumen berupa lembar penilaian validasi ahli, penilaian guru dan respon siswa. Perancangan Video Pembelajaran dilakukan dengan menggunakan model pengembangan instruksional 4D (Four-D) yaitu melalui tahap *Define, Design, Development,* dan *Dissismate* karena pada model ini setiap tahap dilakukan revisi hingga didapatkan produk Video Pembelajaran yang baik. Hasil penelitian menunjukkan bahwa penilaian ahli materi diperoleh persentase 95,2% (sangat layak), penilaian ahli pembelajaran diperoleh persentase 92,3% (sangat layak), penilaian ahli desain diperoleh persentase 75,2% (layak). Penilaian Guru bidang studi diperoleh persentase 92,5% (sangat setuju), sedangkan hasil tanggapan/respon dari Siswa diperoleh persentase 92% (sangat setuju) pada uji coba kelompok kecil dan persentase 80% (setuju) pada uji coba lapangan terbataas. Hasil dari penggunaan Video Pembelajaran diperoleh skor rata-rata 76%. Video pembelajaran biologi pada materi Virus yang telah dirancang memperoleh kriteria penilaian ”Sangat layak” dan telah memenuhi persyaratan untuk digunakan dalam proses pembelajaran Biologi.

Kata Kunci : Perancangan dan Pengembangan,Bahan ajar,Video Pembelajaran , Model 4D (Four-D).

ABSTRACT

Johannes SM Sihite, NIM 4172141024 (2017). Design and Development of Viral Biology Learning Videos as Teaching Materials in Class X MIA SMA

This study aims to design and produce biology learning videos as teaching materials in class X MIA on viruses. This type of research is research and development. The subjects in this study were material experts, learning experts, design experts, subject teachers and class X MIA students of St.Lusia Sei Rotan Private High School. Data collection was carried out with instruments in the form of expert validation assessment sheets, teacher assessments and student responses. The design of Learning Videos is carried out using the 4D (Four-D) instructional development model, namely through the *Define, Design, Development,* and *Dissismate stages* because in this model each stage is revised until a good Learning Video product is obtained. The results showed that the material expert's assessment obtained a percentage of 95.2% (very feasible), the learning expert's assessment obtained a percentage of 92.3% (very feasible), the design expert's assessment obtained a percentage of 75.2% (feasible) Teacher assessment in the field of study obtained a percentage of 92.5% (strongly agree), while the results of responses from students obtained a percentage of 92% (strongly agree) in small group trials and a percentage of 80% (agree) in limited field trials. The results from the use of Learning Videos obtained an average score of 76%. Biology learning videos on viruses that have been designed have obtained the assessment criteria "Very feasible" and have met the requirements for use in the Biology learning process.

Keywords : Design and Development, Teaching Materials, Learning Videos, 4D Model (Four-D).