

ABSTRAK

Tujuan penelitian yaitu menghasilkan bahan ajar berupa video pembelajaran sebagai suplemen praktikum yang dapat dijadikan bahan referensi pembelajaran Biologi di SMA yang memenuhi kualifikasi dari 3 aspek. Tahap pengembangan produk berupa video dilakukan validasi oleh ahli materi, ahli desain, dan ahli bahasa. Model pengembangan yang digunakan adalah Model 4-D, yaitu Pendefinisian (*define*), Perancangan (*design*), Pengembangan (*develop*), dan Penyebaran (*disseminate*). Pada penelitian yang berjudul pengembangan video pembelajaran sebagai suplemen praktikum pada materi sistem jaringan kelas XI SMA Negeri 2 Negeri Besar Way Kanan telah di uji oleh uji validasi ahli desain. Uji validasi desain menunjukkan persentase sebesar 85,33%. Uji validasi materi menunjukkan persentase sebesar 87,69%. Uji validasi bahasa menunjukkan persentase sebesar 95,38%. persentase setiap validasi yang didapat menunjukkan persentase 81-100% menunjukkan kriteria "sangat baik". Data hasil penelitian peserta didik menunjukkan beberapa persentase yaitu dari aspek desain menunjukkan jumlah persentase kelayakan 76% dengan kategori baik, aspek materi menunjukkan jumlah persentase kelayakan 79% dengan kategori baik, dan aspek bahasa menunjukkan jumlah persentase kelayakan 69% dengan kategori baik. Berdasarkan pendapat tersebut menunjukkan bahwa Video pembelajaran sebagai suplemen praktikum pada materi struktur jaringan yang dikembangkan telah layak digunakan dalam pembelajaran.

Kata kunci: video pembelajaran, suplemen praktikum, pendekatan saintifik, sistem jaringan.

ABSTRACT

The purpose of this study was to produce teaching materials in the form of learning video as a practicum supplement as a reference material for Biology learning in high schools which meet the qualifications on 3 aspects. The stages of video product development are undergone by validating the video via material experts, design experts, and linguists. The development model used is the 4-D Model, namely Defining, Planning, Development, and Disseminate. This research was entitled the development of learning videos as a practicum supplement on network system material for class XI SMA Negeri 2 in Negeri Besar Way Kanan. This research instrument has been tested for its validity by design experts. The design validation test showed that the percentage of the instrument validity level was 85.33%. Likewise the results of the material validity test showed a percentage of 87.69%. The language validity test showed a percentage of 95.38%. The percentage resulted of each validity showed a percentage between 81-100%, this shows the "very good" criterion. Data from the research results of students showed that there were several good percentages in term of the design aspect with a feasibility percentage of 76%, which was in the good category, while from the material aspect it showed that the percentage of eligibility was 79% which was in the good category, and from the language aspect it showed the percentage of eligibility was 69% in the good category. Based on this opinion, it showed that the learning video as a practicum supplement on the network structure material development is feasible to use for learning.

Keywords: learning video, practicum supplement, scientific approach, network system.