

ABSTRAK

Najla Rizani Fahlevi. NIM 41821131012 (2018). Pengembangan Media Pembelajaran Berbasis Video Animasi pada Pembelajaran Materi Hidrokarbon di Kelas Xi Sekolah Menengah Atas

Dampak perkembangan teknologi di bidang pendidikan terhadap proses pembelajaran sangatlah besar. Agar efektif dan efisien, proses pembelajaran harus dikembangkan, dilaksanakan, dianalisis, dan dipantau. Ada beberapa siswa yang kesulitan memahami istilah, teori, dan struktur struktur rantai karbon hingga mereka melakukan kesalahan; nilai siswa pada kuis hidrokarbon, dengan 0% siswa yang mendapat nilai 61 sampai 100. Mayoritas siswa mendapat nilai pada rentang 31 sampai 40 (39%) dan paling sedikit pada rentang 51 sampai 60 sebesar 4%. Mengajarkan struktur rantai karbon memerlukan visualisasi yang jelas, yang akan terbantu dengan paparan guru. Diperlukan media yang tepat untuk mengajarkan dan memvisualisasikan bagaimana struktur rantai tersebut. Penelitian ini menggunakan model pengembangan ADDIE. Penelitian ini diawali dengan menganalisis masalah dan keterbatasan yang dihadapi dalam pembelajaran kimia. Kualitas media pembelajaran video animasi dengan persentase penilaian 84% oleh ahli media, 91% oleh ahli materi. Berdasarkan hasil kuesioner terhadap 30 siswa, persentase penilaian berdasarkan respon adalah 91% dengan kategori sangat baik. Berdasarkan hasil test terhadap 30 siswa, dengan $t_{count} \geq t_{table}$; $22.75166617 \geq 2.045$ dengan hipotesis H_a diterima. Video Pembelajaran Berbasis Video Animasi Kelas XI SMA dinyatakan valid berdasarkan penilaian ahli dan praktisi. Hasil penilaian para ahli tersebut secara konsisten mengkategorikan video animasi yang dikembangkan. Penilaian umum dari video ini sangat baik dan dapat digunakan.

Kata Kunci: ADDIE, Hidrokarbon, Media, Video Animasi

ABSTRACT

Najla Rizani Fahlevi. NIM 41821131012 (2018). Development of Learning Media Based on Animation Video in Learning on Hydrocarbon Material at Grade XI Senior High School

The impact of technological developments in education on learning process is significant. To be effective and efficient, the learning process must be developed, implemented, analyzed, and monitored. There are several students find it difficult to understand the terms, theories, and structures of carbon chain structures until they make an error; students' mark in hydrocarbon quiz, with 0% student that have mark up from 61 to 100. Majority of student have mark in range 31 to 40 (39%) and least in range 51 to 60 at 4%. Teaching the structure of the carbon chain requires clear visualization, which would be helped by the teacher's exposure. It needs a proper media for teaching and visualizing how the chain's structure are. This research uses the ADDIE development model. This research begins by analyzing the problems and limitations faced in learning chemistry. The quality of animated video learning media with an assessment percentage of 84% by media experts said it was Good, 91% by material experts said it was Very Good. Based on the results of a questionnaire for 30 students, the percentage of assessment based on responses was 91% in the very good category. Based on test results on 30 students, with $t_{\text{count}} \geq t_{\text{table}}$; $22.75166617 \geq 2.045$ with the H_a hypothesis accepted. Class XI SMA Class XI Animation Based Learning Videos are declared valid based on expert and practitioner assessments. The results of the experts' assessments consistently categorize the animated videos being developed. The general assessment of this video is very good and usable.

Keywords: ADDIE, Hydrocarbon, Media, Animation Video