

ABSTRAK

Widya Irfani: Pengembangan Media *Lectora Inspire* dan Video Pembelajaran Berbasis ICT Pada Materi Larutan Elektrolit dan Nonelektrolit. Tesis. Medan: Program Studi Pendidikan Kimia, Pascasarjana Universitas Negeri Medan, 2019.

Penelitian ini bertujuan untuk mengetahui kelayakan media yang telah dikembangkan yaitu *Lectora Inspire* sesuai dengan Badan Standar Nasional Pendidikan, mengetahui perbedaan hasil belajar siswa pada media *powerpoint*, media *Lectora Inspire* serta media *Lectora Inspire* dan Video Pembelajaran berbasis ICT, mengetahui hubungan aktivitas siswa dengan hasil belajar siswa pada ketiga media tersebut. Jenis penelitian ini adalah penelitian pengembangan *Research and Development* (R & D) dengan menggunakan model ADDIE (*Analysis, Design, Development, Implementation and Evaluation*). Populasi penelitian adalah seluruh siswa kelas X MIA SMAN 1 Secanggang. Sampel penelitian ini diambil secara *Purposive Sampling* yaitu 3 kelas dengan jumlah siswa 90 orang. Hasil penelitian diuji dengan menggunakan uji *one-way Anova* dan uji *bivariate pearson*. Hasil penelitian menunjukkan bahwa: (1) Media pembelajaran yang ada di sekolah memperoleh skor rata-rata 2,8 (cukup layak) untuk digunakan pada pembelajaran kimia tapi perlu direvisi dan dikembangkan (2) Media pembelajaran yang telah dikembangkan memperoleh skor rata-rata 3,8 (sangat layak) digunakan pada pembelajaran kimia materi larutan elektrolit dan nonelektrolit (3) Terdapat perbedaan hasil belajar siswa pada media pembelajaran *Powerpoint*, *Lectora Inspire* dan *Lectora Inspire* dan video pembelajaran berbasis ICT dimana nilai .Sig (0,005) lebih besar dari 0,05 (4) Terdapat hubungan antara aktivitas siswa dengan hasil belajar siswa pada ketiga media pembelajaran. Pada kelas eksperimen I (*Powerpoint*) nilai Sig. (0,024), kelas eksperimen II (*Lectora Inspire*) dengan nilai Sig. (0,008) dan pada kelas eksperimen III (*Lectora Inspire* dan Video Pembelajaran berbasis ICT) dengan nilai Sig. (0,000) dimana ketiga nilai Sig. tersebut lebih besar dari 0,05.

Kata Kunci: Media *Lectora Inspire*, ICT, Hasil Belajar, Aktivitas Siswa.

ABSTRACT

Widya Irfani: Development of Lectora Inspire Media and Learning Videos Based ICT on Electrolyte and Nonelectrolyte Solution Materials. Thesis. Medan: Chemistry Education Study Program, Postgraduate of Medan State University, 2019.

This study aims to determine the feasibility of the media that has been developed, namely Lectora Inspire in accordance with the National Education Standards Board, knowing the differences in student learning outcomes in powerpoint media, Lectora Inspire media and Lectora Inspire and Video Learning media, based ICT knowing the relationship between student activities and student learning outcomes on all three media. This type of research is research and development (R & D) development using the ADDIE model (Analysis, Design, Development, Implementation and Evaluation). The study population was all students of class X MIA SMAN 1 Secanggang. The research sample was taken by purposive sampling, namely 3 classes with a total of 90 students. The results of the study were tested using one-way Anova test and bivariate Pearson test. The results of the study show that: (1) Learning media in schools obtain an average score of 2,8 (quite feasible) to be used in chemistry learning but need to be revised and developed (2) Learning media that have been developed obtain an average score of 3,8 (very feasible) used in the study of chemistry of electrolyte and non-electrolyte solution materials (3) There are differences in student learning outcomes in Powerpoint, Lectora Inspire and Lectora Inspire learning media and ICT-based learning videos where the .Sig (0.005) value is greater than 0.05 (4) There is a relationship between student activity and student learning outcomes in the third instructional Media. In the experimental class I (Powerpoint) the Sig. (0.024), experimental class II (Lectora Inspire) with the value of Sig. (0,008) and in the experimental class III (Lectora Inspire and ICT-based Video Learning) with the Sig. (0,000) where all three Sig. greater than 0.05.

Keywords: Lectora Inspire Media, ICT, Learning Outcomes, Student Activities.