ABSTRACT

Arini Nur Fariha. 2019. ***Use of Wikipedia in Learning Viruses to Improve Digital Literacy Skills and Student Learning Outcomes***. *Advisor* I Dr. Cartono, M.Pd., M.T. *and Advisor* II Dr. H Dadi Setia Adi, Ph.D.

This research is conducted based on 21st century skills background and technological development. Students will faces life problems, they will compete with technology. Educators are required to be able to provide learning in order to supply students an adequate competence to face problems digitally. This study aims to determine the differences in learning outcomes and digital literacy skills of students before and after using the Wikipedia application at SMAN 19 Bandung. This study uses a Pre-Experimental method. Research data obtained by pretest and posttest, questionnaire, observation, and assessment of scientific papers in article form. The instrument of the study is an objective test of 10 multiple choice questions. The result of the study is analyzed using software IBM SPSS 20.0 for windows through the normality test with the Shapiro-Wilk statistical test and then hypothesis testing is performed using one sample t-test. Based on the results of the analysis of hypothesis data from the posttest using one sample t-test, the value of 0,000 or significance value <0.05, which means that the null hypothesis (Ho) is rejected and the hypothesis (Hα) is accepted. It shows that there are significant improvement in student learning outcomes before and after using the Wikipedia application. The digital literacy ability of students analyzed from the results of the pretest and questionnaire also increased. Based on these studies it can be concluded that learning using the Wikipedia application on the Virus concept can improve digital literacy and student learning outcomes.

Keywords: Digital Literacy, Learning Outcomes, Wikipedia, Viruses.