

ABSTRACT

Nandhita Ayu Lestari, 2019 Implementation Of E-Learning As A Component Of TPACK In Efforts To Improve The Learning Outcomes Of Students In Kingdom Monera Material. Mentor one: Dr. Yusuf Ibrahim, M.P., M.Pd, and mentor two: Dr. drh. Nia Nurdiani, M.Si.

This study aims to determine the effectiveness of learning by e-learning method in the framework of TPACK towards the improvement of student learning outcomes on the subject matter of Kingdom Monera. The subjects used were 23 students of class X MIPA SMA Nasional Bandung. The design of research used is pre-experimental with the type of design One Group Pretest Posttest Design. This learning is done by e-learning method whose teaching materials are uploaded to the LMS Moodle which can be accessed via the Internet. Measurement of student learning results is measured by the problem of pretests and posttest, the type of problem used is multiple choice with 20 questions and there are 4 alternative answers. The effectiveness of e-learning by using LMS Moodle can be seen from increasing student learning outcomes before and after the e-learning is being tested using the T-Test paired sample test. Results showed that on the cognitive aspects of learning outcomes increased significantly ($p < 0.05$) with an average Gain of 50.22. In the low category ($N\text{-gain} = 0.00 < G < 0.30$) 4.35%, Medium category ($N\text{-gain} = 0.30 \leq g < 0.70$) 21.74%, and at high category ($N\text{-gain} = 0.70 \leq g \leq 1.00$) 73.91%. In the affective aspect, learners demonstrate an attitude with an average value of 88.86 that belongs to the category very well, as well as on the psychomotor aspects of learners showing skills with an average score of 83.15 and belonging to a good category.

Keywords: *E-learning, TPACK, student learning results, Kingdom Monera*