

ABSTRACT

E-LEARNING METHOD AS A TPACK COMPONENT IN IMPROVING STUDENT LEARNING OUTCOMES IN ANIMAL NETWORK MATERIALS

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This study aims to determine the effectiveness of learning by using the E-Learning method within the TPACK framework for improving student learning outcomes with the subject matter Animal Networks. The subjects used were 32 students of class XI MIPA Bandung National High School. The research design used was a Pre-Experimental type One-Group Pretest Posttest Design. This learning uses the E-Learning method whose teaching material is uploaded to Moodle LMS which can be accessed via the internet with the site unpas15.com. Measurement of student learning outcomes is measured through pretest and posttest questions while the type of questions used is multiple choice with a total of 20 questions and there are 4 alternative answers. The effectiveness of E-Learning can be seen from the increase in student learning outcomes by increasing the score (Gain = 34.53) from 32 students 7 students (21.87%) experienced an increase in learning outcomes with the highest criteria (N-Gain = 0, 71-0.86) and 24 students (75%) experienced an increase in learning outcomes with moderate criteria (N-Gain = 0.44-0.70) and 1 person (3.13%) learners experienced an increase in learning outcomes with criteria low (N-Gain = 0.14). In the affective domain (attitude) obtained from observations in class during the learning process, showed that in the aspect of curiosity assessment there were 67.1% of students showed responsibility, 62.9% of students showed disciplinary attitudes 62.1%, participants students address responsive and proactive there are 67.1% and students carry out learning by accessing MMI there are 75.7%. of 32 students there were 5 of them had very good criteria, 6 had good criteria and 21 students had enough criteria.

Keywords: *E-Learning, TPACK, Student Learning Outcomes, Animal Networks*