THE EFFECT OF BLENDED LEARNING MODEL TO CRITICAL THINKING AND CREATIVE THINKING SKILL STUDENTS IN SENIOR HIGH SCHOOL

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ABSTRACT

This study aims to determine the effect of applying blended learning in improving students' critical and creative thinking skills. This type of research is a quasi-experimental design of two groups pre-test post-test. The study population was all students of class XI IPA SMA Negeri 5 Medan A.Y. 2019/2020 consisting of 9 classes. The research sample was taken by cluster random sampling technique consisting of two classes, namely XI IPA 2 as an experiment class and XI IPA 9 as a control class, each class consist of 34 students. This research instrument uses essay test consisting of 10 questions that measure critical thinking and 4 creative thinking questions. The research hypothesis was tested using the manova test. The results of data analysis obtained the average value of pretest critical thinking skills of the experiment class was 50.44 and the control class was 47.14, it means the initial ability of students is same. The average posttest critical thinking skills of the experiment class was 85.05 and the control class was 68.05. The average pretest of the creative thinking skills of the experimental and control class is 49.26 and 52.52, it means the initial ability of students is same. The average posttest of creative thinking skills in the experiment class was 83.82 and the control class was 61.53. Based on manova test can be concluded there is an effect of blended learning on critical thinking skills and creative thinking. From the result of correlation the result is 0.860 it means a perfect correlation and positive form, so the higher critical thinking skills, the higher the students, creative thinking. The results of the N-gain critical thinking skills test showed an increase in the critical thinking of the experimental class 71% and the control class 38%. The results of the percentage increase in N-gain creative thinking skills obtained 68% in experiment class and 23% in control class.

Keyword : critical thinking skill, creative thinking skill, *blended learning*.