ABSTRACT

Meriana Madiles. 2020. Comparison Of *E-Learning* And *Blended Learning* As A Component Of The *TPACK* Framework In Improving Student's Critical Thinking Ability On Immune System Materials. Dibimbing oleh. Dr. Cartono, M.Pd., M.T., Dr. Nia Nurdiani, M.Si.

The ability to think critically is the intellectual thinking process of students in carrying out learning so that students can think independently and rationally. One way to improve students' critical thinking skills is by implementing a learning process based on the TPACK framework. This study aims to determine the comparison of the increase in students' critical thinking skills through learning with the E-learning method and Blended Learning as a component of the TPACK framework on the subject of the Immune System. This research uses experimental method with Quasi experimental research design. The population in this study were all students of class XI IPA SMAN 12 Bandung with samples taken were class XI IPA 3 and class XI IPA 4. The results showed that the increase in critical thinking skills of students with the E-learning method was determined by calculating Gain shows an average 16.57, with the category of increase determined by the N-gain calculation showing a range between 0.14 to 0.82 with the criteria of moderate increase. While the increase in critical thinking skills of students with the Blended learning method is determined through the calculation of Gain shows an average 43.22, with the category of improvement determined through the calculation of N-gain shows a range between 0.11 to 1.00 with criteria increase in height. Thus it can be concluded that there is a significant difference in the improvement of students' critical thinking skills on the concept of the Immune System material which is significant between learning with the E-learning method and learning with the Blended Learning method, with a better category using the Blended Learning method.

Keywords: Critical thinking, *TPACK, E-learning* method, and *Blended Learning* method