

ABSTRACT

TASNIM SALSABILA, 2025. ***THE EFFECT OF ASSEMBLR EDU MEDIA ON DIGITAL LITERACY AND ENVIRONMENTAL LITERACY IN ECOSYSTEM MATERIALS (Experimental Study in Class X SMA Negeri 5 Tasikmalaya in the 2024/2025 Academic Year).*** Biology Education Program, Faculty of Teacher Training and Education, Siliwangi University, Tasikmalaya.

In the 21st century, technology has become one of the key factors in improving the quality of social life, while environmental issues have become a pressing global concern due to human activities. The purpose of this study is to determine the influence of the Media Assemblr Edu platform on digital literacy and environmental literacy in ecosystem-related materials among Grade X students at State Senior High School 5 Tasikmalaya for the 2024/2025 academic year. This study employs a quasi-experimental method with a nonequivalent control group design. The population consists of all Grade X students at SMA Negeri 5 Tasikmalaya for the 2024/2025 academic year, comprising 12 classes with a total of 420 students. The sample was selected using purposive sampling, with Grade X-3 designated as the experimental class and Grade X-6 as the control class. Data collection techniques were conducted using a non-test digital literacy instrument consisting of 37 statements in the form of a questionnaire and an environmental literacy test instrument consisting of 27 multiple-choice questions. The research results showed that the average n-gain score for digital literacy in the experimental class was 0.58, while in the control class it was 0.51. Furthermore, the average n-gain score for environmental literacy in the experimental class was 0.70, while in the control class it was 0.64. The research data was analysed using ANCOVA, showing a significant value of $0.000 < 0.05$, meaning that the null hypothesis (H_0) was rejected for digital literacy, and a significance value of $0.004 < 0.05$, meaning that the null hypothesis (H_0) was rejected for environmental literacy. Based on the research results, it was found that the use of the Assemblr Edu platform had a significant positive effect in improving digital literacy and environmental literacy in ecosystem-related material in Grade X at SMA Negeri 5 Tasikmalaya.

Keywords: *Assemblr Edu media, digital literacy, environmental literacy, ecosystem.*