

## **ABSTRACT**

**RIKE NURJANAH, 2026. "The Effect of the *Project Based Learning (PjBL)* Model on Students' Analytical Thinking and Critical Thinking Skills in the Human Circulatory System Topic (An Experimental Study in Grade XI of SMA Negeri 1 Jatiwaras, Academic Year 2025/2026)." Undergraduate Thesis, Department of Biology Education, Faculty of Teacher Training and Education, Siliwangi University.**

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*This study aims to determine the effect of the Project Based Learning (PjBL) learning model on students' analytical and critical thinking skills on the human circulatory system material in class XI of SMA Negeri 1 Jatiwaras in the 2025/2026 academic year. This study used a quasi-experimental method with a nonequivalent control group design. The study population consisted of all 153 class XI students of SMA Negeri 1 Jatiwaras, with two classes selected through purposive sampling techniques, namely class XI-3 as the experimental class and class XI-1 as the control class, each consisting of 35 students. The experimental class was given treatment using the Project Based Learning model, while the control class used the Problem Based Learning learning model. The research instrument was a descriptive test consisting of 5 questions to measure analytical thinking skills and 15 questions to measure critical thinking skills on the human circulatory system material. Data were analyzed using the ANCOVA test with a significance level of  $\alpha = 0.05$ . The results of the study showed that the significance value of analytical thinking and critical thinking abilities was 0.000 ( $p < 0.05$ ), so it can be concluded that the Project Based Learning model has a significant effect on improving students' analytical thinking and critical thinking abilities on the human circulatory system material in class XI of SMA Negeri 1 Jatiwaras in the 2025/2026 academic year.*

**Keywords** : *Project Based Learning, learning model, analytical thinking, critical thinking, human circulatory system*