

**THE IMPLEMENTATION OF PROJECT-BASED LEARNING (PjBL)  
MODEL IN PIPAS SUBJECT TO STRENGTHEN PANCASILA STUDENT  
PROFILE AND 21ST CENTURY SKILLS AT SMKN PANCATENGAH  
TASIKMALAYA REGENCY  
(Priyo Wibowo, 2026)**

**ABSTRACT**

*This research is motivated by the still low levels of critical thinking, creativity, communication, and collaboration skills among Grade 10 students at SMKN Pancatengah in the learning of Proyek Ilmu Pengetahuan Alam dan Sosial (PIPAS), which is still dominated by conventional approaches. These four skills are essential for facing the challenges of an era marked by increasingly complex levels of competition. The study aimed to examine the effect of implementing the Project-Based Learning (PjBL) model on strengthening the Pancasila Student Profile in the dimensions of critical reasoning and creativity, as well as 21st Century Skills in the dimensions of communication and collaboration. This study employed a quantitative approach with a quasi-experimental method. The sample consisted of 52 tenth-grade students from class X.TKR.A (experimental group) and X.TKR.B (control group) selected through purposive sampling. Data were collected using observation sheets and assessment rubrics for the inorganic waste product manufacturing process, measured through initial and final observation stages. The results of the Independent Sample T-Test showed a significance value of 0.000 (Sig. < 0.05), indicating that the alternative hypothesis was accepted. There was a highly significant difference in achievement between the experimental and control classes, with the experimental class obtaining much higher N-Gain and mean scores across all observed dimensions. Therefore, it can be concluded that the implementation of the PjBL model has a positive and significant effect on strengthening the Pancasila Student Profile and 21st Century Skills of the students.*

**Keywords:** *Project-Based Learning, PIPAS, Pancasila Student Profile, 21st Century Skills.*