

THE COMPARISON BETWEEN MULTIMEDIA BASED *PROJECT BASED LEARNING* AND A *POWER POINT* BASED-LECTURE ON STUDENT LEARNING RESULT OF THE CONCEPT OF VIRUS

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ABSTRACT

This study was conducted based on the background of the low student learning outcomes in the concept of virus in the class X MIPA SMA Pasundan 1 Bandung. This is due to lack of implementation of the learning model strategy or approach used by the teacher during a lesson, so that 50% of students score below KKM 75 every year. This study aims to identify the differences of students learning outcomes between multimedia-based project based learning and a power point based-lecture on the concept of virus in SMA Pasundan 1 Bandung. The method used in this research is Quasi Experimental with research design of Nonquivalent Control Group Design. The data was obtained by the pretest and posttest. The instruments of study is an objective test of 20 multiple-choice questions. The data were then analyzed using normality test in the form of Chi-Square (X^2), homogeneity test in the form of variant or the F test, and testing using t test. Based on the analysis results of hypothesis data from posttest using t test, it was obtained that $t_{hitung} = 2.75$ and $t_{table} (0,01) = 2.66$ at significant level of 1% or $\alpha = 0.01$ indicates $t_{hitung} > t_{table}$, which means that the hypothesis (H_a) is accepted and the null hypothesis (H_o) is rejected. This shows that there is a significant difference between multimedia-based project based learning with a power point based-lecture. Based on these studies it can be concluded that learning by using multimedia-based learning project based on the concept of virus can improve student learning outcomes.

Keywords: Multimedia, *Project Based Learning*, *Power Point*, Lecture, Learning Outcomes.