THE IMPLEMENTATION OF PROJECT BASED LEARNING MODEL INTERGRATED WITH LESSON STUDY TO INCREAS STUDENT'S LEARNING OUTCOME ON BUFFER SOLUTION TOPIC

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ABSTRACT

This research has the purpose to know the student's learning outcome in Buffer Solution by implementing Project Based Learning model integrated with Lesson Study and to know the student's cognitive aspect improvement in learning buffer solution with Project Learning model with Lesson Study compared with conventional model. The population of this research are all Senior High School students grade XI in Medan Tembung, which the samples are 2 classes XIth grade chosen by purposive sampling method. 1st as experiment class was taught by Project Based Learning Model integrated with Lesson Study while 2nd class as control class was taught by Conventional model. The instrument test had been standardized by expert validator and empiric validity process. The result of test standardization is 20 multiple choice questions with reliability 0.919. The research resulted that the data is normal distributed and samples are homogenous. The result data showed that student's achievement taught by Project based learning with lesson study (0.69 ± 0.11) gave higher significance different compared with student's achievement taught by conventional model (0.41 ± 0.08). The statement supported by the result of hypothesis testing is $t_{count}(16.86) > t_{table} (1.68)$. Cognitive aspect which highest improved is C3 (Application) with high score 0.77.

Keywords : Project Based Learning, Lesson Study, Student's Achievement