THE IMPLEMENTATION OF DRILLING METHOD INTEGRATED INTO WEB-BASED LEARNING MEDIA TO INCREASE STUDENTS' ACHIEVEMENT AND MOTIVATION ON LEARNING OF BUFFER SOLUTION

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ABSTRACT

The aims of this study are to get the student's achievement, student's motivation between students follow tutorial and students don't follow tutorial taught with Drilling method integrated in web- based learning media. Beside of that, this research also conducted to know the correlation between student's achievement and student's interest. This study involved 60 students of 11th grade in SMAN 2 Medan which taken by purposive random sampling. The research instruments are achievement test and non test in observation sheet and questionnaire motivation form. Test instruments in this research is UAN instruments about buffer solution has been validated. The research use data analyzed by SPSS -17 for windows. The result data shows that (1) The student's achievement of students follow tutorial is higher than student's achievement of students don't follow tutorial. It can be seen from the average of gain and also proved with t-test, the normalized gain of students who are following tutorial is (0.46 ± 0.14) and students who are not following tutorial is (0.38 ± 0.13) at significant level $\alpha = 0.05$, Ha_1 is received and Ho_1 is refused where Sig. $< \alpha$ $(0.0075 < 0.05)$, (2) The student's motivation of students follow is higher than student's achievement of students don't follow tutorial. It can be seen from the average of motivation and also proved with t-test, the average students follow tutorial is 83.33 ± 9.37 and students don't follow tutorial is 72.59 ± 13.09 at significant level $\alpha = 0.05$, Ha_2 is received and Ho_2 is refused where Sig. $< \alpha$ $(0.005 < 0.05)$, (3) There is correlation between two variables that are student's achievement and student's motivation at significant level $\alpha = 0.05$, Ha_3 is received and Ho_3 is refused where Sig. $< \alpha$ $(0.000 < 0.05)$, with Pearson correlation $(r) = 0.649$, it means categorized in high correlation.

Keywords: Drilling Method, web-based learning media, Tutorial, Student's Achievement, Student's Motivation