EFFECTIVENESS OF WEB BASED *E-LEARNING* MEDIA ON INFORMATION AND COMMUNICATION TECHNOLOGY SUBJECT FOR IMPROVE ACHIEVEMENT STUDENTS OF GRADE X SMA NEGERI 1 KALASAN

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ABSTRACT

This research purposed to know the comparative effectiveness of the use of web based *E-Learning* media in Information Technology and Communication subjects to improve learning achievement students of grade X SMA Negeri 1 Kalasan when compared with conventional learning in place at the school.

The research method is quasi-experimental research method with two class sample XA and XB in SMA Negeri 1 Kalasan.

The research method is used in this research was quasi-experimental research methods with a sample of research is the class XA and XB SMA Negeri 1 Kalasan. The research design was pretest-posttest control group design. The sampling technique is used was random sampling. Different test done to measure the difference in the effectiveness of web based *E-Learning* media and conventional learning media based on learning achievement of using Independent Sample t-test.

Based on these results it can be concluded that the effectiveness of web based *E-Learning* media have an index of normalized gain is 0,54; effectiveness of conventional learning media have an index of normalized gain is 0,30 and improved learning achievement with web based *E-Learning* media is better than the improved learning achievement of conventional learning media while they in the same criteria. The criteria is in sufficient criteria. But if based on calculation of the gain, improvement learning achievement with based on the t test of the average value of learning achievement acquired $t_{hitung} > t_{tabel}$ (2,870> 1,672), as well as the significant value of P (0006) $<\alpha$ (0.05), thus Ho rejected and Ha accepted. It is proved that web based *E-Learning* media effectively to improve student learning achievement in the material Presentation Maker Software Class X SMA Negeri 1 Kalasan.

Keywords: media, *E-Learning*, conventional learning, learning achievement.