

**THE EFFECTIVENESS OF USING WEB PAGE MAKER-BASED
LEARNING MEDIA ON ELECTRICAL AUTOMOTIVE ENGINEERING IN
STARTER SYSTEM MAINTENANCE IN SMK MUHAMMADIYAH
GAMPING**

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ABSTRACT

The purpose of this research is to find the students' knowledge improvement after using *Web Page Maker* media to support the learning process of electrical automotive engineering in the competence of starter system maintenance in SMK Muhammadiyah Gamping.

This is a quasi experimental research with nonequivalent control group design. The population consisted of class XII A (thirty students) as the experiment group who was taught using Web Page Maker and class XII B (twenty five students) as the control group who was taught using conventional way. The data collection technique was done by using questionnaires Likert four scales to find the using media. While, Pre-test and post-test were conducted to find the improvement and the effectiveness of using media. Instrument validity test was done using expert judgment and product moment. Instrument reliability was counted using Alpha Cronbach. Descriptive statistic and t-test were used to analyze the research data.

The result of the research shown the media was good and appropriate to be used in SMK Muhammadiyah Gamping. This was approved by the judgment of the teachers who test the media from four aspects; contents, media advantages, screen design, and program operating. The result shown average count 3.42 when it was converted in Likert scale means very good. The students in experiment class have average score 61.6 (pretest) and 75.1 (posttest). It has increased percentage 9.86%. The result analyzed using t-test shown $t_{count} 5.075$, which is bigger than $t_{tabel} 1.69$. It can be concluded that there is a significance improvement in the students' achievement in the experiment group. The effectiveness of using media judged by correlating the students' achievement in experiment class and the students' achievement in control class shown significance improvement. From t-test, it gets $t_{count} 1.74$, which is bigger than $t_{table} 1.67$.

Key words: learning media, *Web page maker*, starter system.