

**DEVELOPING LEARNING OF CONTINUOUS VARIABLE
TRANSMISSION BASED ON COMPUTER MOTORCYCLE SUBJECT
AT VOCATIONAL HIGH SCHOOL IN CILACAP REGENCY**

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ABSTRACT

This research aims to identify the developing, validity and reliability of learning instruction of Continuous Variable Transmission Based On Computer Motorcycle Subject At Vocational High School In Regency Cilacap.

The research was categorized as research and development (R&D). The research implemented Borg and Gall. The subject of this research was the student was conducted three times in three schools at SMK Dr Soetomo, SMK Budi Oetomo and SMK N 2 Cilacap. Each school consisted of 36 student of the subject of the research. The effectiveness of the product was tested by quasi experimental research with non equivalent control group design. The sample in this step was based on the purpose sampling. The sample was 72 student of SMK Dr Soetomo that was divided into two class XI TKR II as the experimental group and TKR I as the control group. Each class consists of 36 students. The data were collected using questionnaire with four Likert scale. The instrument was validated by expert judgment and product moment. Meanwhile, the reliability of the instrument was found out by *Alpha Cronbach*. Then, the data were analyzed by descriptive statistic and t-test.

The result showed that learning media of CVT at SMK Dr. Soetomo was proper based media aspect. The value was 86.96%. Meanwhile, based material aspect, the learning media of CVT was not proper. The value for it was 14.28%. The developing of learning media of CVT was by Macromedia Flash. Based on the data analysis from three data of try out, the learning media of CVT is proper with value 87.05% it media aspect. Moreover based on material aspect, the learning media of CVT is proper with value 58.33%. There was any significant in learning motivation between control and experiment class. The students' learning motivation that was taught by learning media of CVT based on computer was higher than student in control class. It is shown by the result of t-test of t_{observe} was higher than $t_{\text{table } 5\%}$ ($2.1028 > 1.9996$).