LEARNING EFFECTIVENESS OF MECHANICAL ENGINEERING DRAWINGS THE REAL OBJECTS IN SMK N 2 DEPOK

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ABSTRACT

This study aimed to: (1) know the achievements of vocational students at SMK N 2 Depok mechanical engineering drawing class after getting the real objects of learning (2) know the progress of effectiveness learning mechanical engineering drawing class with real objects (3) know is there any difference of the effectiveness of learning mechanical engineering drawing with real objects with the previously used conventional teaching.

This study is a kind of experimental research where conducted at SMK N 2 Depok Sleman. The subjects of study is X grade "Teknik Pemesinan" (X TP) SMK N 2 Depok which consists of 2 (two) classes. The variables of study were: the independent variable (the use of real objects) and the dependent variable (learning achievement). The study used pre-eksperimental design. X TPA grade used as a experiment class and X TPB grade used as a control class. The treatment gave to the class experiment with learning methods to real objects, while control class gave with conventional methods. The instrument included indicators and validity that belong to face validity or the validity that come from judgment experts. Data analysis technique used descriptive analysis include: mode, median, mean, variance, and standard deviation.

The result shows that: student achievement SMK N 2 Depok in mechanical engineering drawing class after getting the real object of learning; the average was 77,38 while those getting conventional learning was 70,81. Mechanical engineering drawing class with the real object at SMK N 2 Depok was more effective than conventional learning. There was a difference of learning effectiveness on mechanical engineering drawing class with a real object of conventional teaching in SMK N 2 Depok.