

ABSTRACT

**THE EFFECTIVENESS OF THE IMPLEMENTATION OF THE
DEMONSTRATION METHOD USING THE VIRTUALBOX APPLICATION
IN IMPROVING STUDENTS' LEARNING OUTCOMES IN CLASS XI
AT SMKN 3 OF BENGKULU CITY**

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Computer Network and Telecommunication Engineering (TJKT) SMKN 3 Bengkulu City as one of the fields of expertise in carrying out the process of learning activities on the learning outcomes of network operating system installation is not optimal. Based on observations that student learning outcomes are still not low. This is due to, among others, teachers still using the lecture method in learning, teachers still using textbooks from certain publishers, students are less enthusiastic in participating in learning, students pay less attention to learning, and special applications have not been utilized in supporting learning. This study aims to determine the effectiveness of the application of the demonstration method using the VirtualBox application in improving the learning outcomes of students in class XI TKJ2 at SMKN 3 of Bengkulu City. The approach method used in the research is to use the quasi experiment method. The results of the research on the demonstration method using the VirtualBox application in learning network operating system installation material based on the research instrument obtained an assessment in the very good category. The effectiveness of learning on the application of demonstration methods using VirtualBox applications is 59% based on the results of the acquisition of pre-test and post-test assessments conducted to students. The results of the t-test on the research obtained the results of $t_{count} > t_{table}$. Where the t_{count} is $11.03 > t_{table} 2.03$, meaning that there is a significant difference between variable X and variable Y on research conducted by applying the demonstration method using the VirtualBox application. Based on these results, it can be concluded that the application of the demonstration method using the VirtualBox application is effective in improving students' learning outcomes in the learning material for installing network operating systems for class XI TKJ 2 students at SMKN 3 of Bengkulu City.

Keywords: *Effectiveness, Demonstration Method, VirtualBox, Learning Outcomes.*

