ABSTRACT

The limited study time in class, or sudden Affairs until the teachers could not be

present in the classroom, sometimes blocking in conveying all the subject matter. In

addition. teachers are constrained in awarding problems exercises or quizzes manually

with the examination results. This led to his learning process is inefficient, due to

limitations of time and place. Where is the current information and communication

technology is growing very rapidly, but there is still that have yet to optimize the

process of teaching and learning in ICT and is also still the lack of

Telecommunications Engineering Science among vocational high school. Based onthis, it

needs a solution.

Therefore, to overcome the problems that have been presented before, made a E-

learning applications, as well as being the final project by lifting the title "design"

and implementation of E-learning-based LMS Moodle (Case studies SMK Prakarya

Internasional)". E-learning is based on Moodle LMS and use Hosting services Indonesia

i.e. Qwords.com, where apache web server and PHP as a server and its databases.

In this final project, there is a functionality test results indicate that the system is

running properly, and performance test results showed 0% error of 10-20 user access at the

as well as the results of the questionnaire there are 80% stating this same time,

application helps the process of teaching and learning. So it can be inferred, this e-

learning applications can help in the process of teaching and learning and facilitatethe

time learn more about the science of telecommunications engineering among Vocational

High School, without necessarily limited by distance and time.

Keywords: e-learning, LMS, Moodle, Server

٧