

## ABSTRACT

The probability and statistics subject is needed for the college students, especially when they have to collect, process, analyze, and interpret data for making theses and dissertations. Statistics is a science that studies how to plan, collect, analyze, interpret, and present data in a simplified form so that it will be easy to 'read'. Many of statistical analysis use probability as its basic concept. It can be seen in a fact that many statistical tests based on the distribution of opportunities was used.

Along with the rapid development of technology, a mobile device that known as a smartphone has been found. This mobile device allows many applications to be run in it. Android smartphone's operating system which is open facilities every people to develops applications in it.

In this Final Project, a Probability and Statistics application that are packed onto the Android smartphone so that the college students can study Probability wherever and whenever easily was made. This application presented some simple menus which is packaged applicatifly, such as Konsep, Resume, Latihan, and Solusi, thus providing attraction and easiness for students in understanding the subject.

These application was built in several stages. First, design stage by using the Eclipse software. Next, testing stage by using Android SDK emulator. The final stage is testing in the Android smartphone. This application provides the output in form of text, images, and videos.

Results showed that this application can run all its functions and features as expected. This application also can be used as a new tool for college students to understanding the probability and statistics subject.

*Key words: Probability, Statistics, Mobile Application, Eclipse, and Android*