**ABSTRACT** 

Steganography is a method of cryptography that is used to hide data

or information on a digital image so that the data sent is not identified by an

irresponsible party.

In this final project, a steganography application can be inserted that

can insert messages and extract them again using two choice methods where

the message is inserted in the form of text and image storage media using

the TIFF format.

After successfully implementing the system, several tests were

carried out on steganography images, namely image quality testing based on

MSE and PSNR parameters, testing the time of insertion process and image

extraction and testing the maximum number of characters that can be

inserted into the image. From several tests that have been done, the results

obtained where the least significant bit MSE and PSNR methods are better

compared to spread spectrum methods, where the average value of PSNR is

37.79451 dB for the least significant method and 32.35604 dB for the

spread spectrum method.

Keywords: Steganography, Least Significant Bit, Spread Spectrum, TIFF.