

## **ABSTRACT**

*Steganography is the technique of inserting a message / information into other media (images, audio, video, etc.) so that the information is secure and not easily be abused by others. The use of steganography can also facilitate the information's sender to hide the message in another form. To detect the presence of hidden messages need a certain technique called Steganalisis. Could mean that steganalisis is a science to determine / detect the presence of hidden messages in a media that has been inserted using steganography.*

*In the process of making this Final Assigment Proposal, stego detection analysis (stegano object) will use Binary Similarity Measures (BSM) methods. BSM method is used to determine changes in the bits with the similarity calculation at the binary level. For the classification method will be used HMM (Hidden Markov Model), by way of predicting the outcome use the calculation of probability (likelihood). In the previous study the use of HMM is very effective for the classification process in the recognition system. So in this study HMM will be used to assist in the classification of the characteristics, especially to find the hidden information.*

*In this Final Assigment will be implemented the steganalisis Binary Similarity Measures (BSM) method and Hidden Markov Models (HMM) for detection of multiple digital images in JPG format that has been inserted LSB steganography. Based on the testing, the program can detect LSB steganography with accuracy of 74,80%. It can also avoid the misuse of information by means of infiltration another message into the object.*

**Keywords:** *Steganography, Steganalisis, Digital Image, Text, Hidden Markov Model (HMM), Binary Similarity Measures (BSM).*