

## **ABSTRACT**

*In Indonesia there are very many cases of murder, theft, immoral acts, and suicides, in this case one of the sciences that can determine criminal and victim. Forensic science is one of medical science to be able to express one's identity from gender to race and ethnicity. In general, forensic science can be interpreted as an application or special knowledge assistance for law enforcement and justice. In each individual with a unique pattern that is different from each individual, but more specifically each individual will be different. In general, using fingerprints but having limitations, namely resistance that is not taken on fingerprints is taken as an alternative, lip prints.*

*Lip prints have a characteristic, stable throughout life, and will not change both the pattern and characteristics. Lip examination can be seen since the baby is born four months. Lips are an alternative way to get data from individuals. On the lips there is a unique pattern that each person is depicted on the lips of the upper mucosa and lower lip, as well as fingerprints. Lipstick can be used to help forensic science in solving existing cases.*

*This final project aims to renew the minangkabau and sundanese tribes in order to facilitate the individual search space in the application of forensic science. The method used is the registration of fingerprint images by extracting the features of Discrete Cosine Transform (DCT) and classification using the Learning Vector Quantization (LVQ) using the Matlab Laboratory application (MATLAB) for processing that has reached 89,94% using trace 91,26 seconds.*

***Keywords: Forensic, lipprint, lip, DCT, LVQ, accuracy, computing, tribe, minangkabau, Sundanese.***