

## **ABSTRACT**

*Each type of acne has characteristic texture or shape respectively so that the texture or shape can be used to identify each type of acne. This research will be performed on the classification of types of acne based on texture on each type of acne with digital image processing technology. Texture analysis using value – the value of earmarks in the extraction method of GLCM (Gray Level Co-occurrence Matrix). Extraction of the characteristic is obtained by calculating the relationship of neighbourliness between two pixels at a distance and orientation angle of  $0^\circ$ ,  $45^\circ$ ,  $90^\circ$ , and  $135^\circ$ . In addition, to generate the value of earmarks by using statistical characteristics lima i.e. contrast, correlations, dissimilarity, energy, entropy. The five traits are used that can distinguish the texture of every type of acne. The results of research conducted, the system is capable of classifying any type of acne based on texture on each type of acne that produces the accuracy of 72%.*

**Keyword :** *Type of acne, Image Processing, and GLCM*