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**Research Title: Image Encryption Program on Android** (Project’s topic)

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**Research Group:** Computer Engineering (Lab)

**Faculty:** Faculty of Engineering (Faculty)

**Generation:** 15th

**Abstract**

Nowadays multimedia is widely shared online, especially pictures. To keep the information privacy is important. The password access is one way to keep the privacy. Normally to use the password is just to justify the picture. The researcher has a concept of image encoding in every pixel. This is a stream encoding. The application is formulated on the Android operating system.

How does this application work? When the user enter the password. The application then encrypts the image. Random numbers are generated from the input password. Then the numbers are encoded with the readable pixel values then it will display on the screen and save it to memory. Decoding does the same if the password matches the encoding, it will get the original image. If the password does not match, then the encrypted image is the same. This encryption is very secure. Even if the application is deleted. Or even if someone takes the picture it still can not access the image. Until you decrypt with the old password. The application has been released and try to test with the user. The come out result is the application can be used.

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**Note**: In the abstract please use the letter TH SarabunPSK size 16. And please make sure not to exceed one A4 page length. The number of words should not exceed 300 words (standard size of 210 mm × 297 mm). The abstract should include important, purpose, hot to, factor, results (if any), analysis, and conclusions. Include suggestions for further research (if available).

Keywords: Image Encryption, Image Processing, Android Application

**Note**: please identify 3-5 key words (separate the keywords with semicolons)