CANDIDATE'S DECLARATION

I/We hereby certify that the project work entitled **"Luminance Based Image Text Encryption"** in partial fulfilment of the requirements for the award of the Degree of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING with specialization in Mainframe Technology and submitted to the Department of Computer Science & Engineering at Center for Information Technology, University of Petroleum & Energy Studies, Dehradun, is an authentic record of my/ our work carried out during a period from **August**,2016 to **December**, **2016** under the supervision of **Mr. SaurabhShanu, Assistant Professor, CIT,UPES.**

The matter presented in this project has not been submitted by me/ us for the award of any other degree of this or any other University.

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ABSTRACT

“LBITE” – Luminance Based Image Text Encryption is the project to limit unauthorized access and provide better security during message transmission. To meet the requirements, We use the simple and basic approach of steganography.

In this project, the proposed approach finds the suitable algorithm for embedding the data in an image using steganography which provides the better security pattern for sending messages through a network.

The art of information hiding has received much attention in the recent years as security of information has become a big concern in this era of internet. As sharing of sensitive information via a common communication channel has become inevitable, Steganography – the art and science of hiding information has gained much attention . Steganography derives from the Greek word steganos, meaning covered or secret, and graphy (writing or drawing) .Steganography is the art and science of hiding information by embedding messages within others. Steganography works by replacing bits of useless or unused data in regular computer files with bits of different, invisible information. This hidden information can be plain text, cipher text, or even images. This is an attempt to analyze the LSB technique of steganography and image processing using c programming for the image text encryption that is luminance based.

Keywords:
Steganography, Covert- Communications, Carrier-Image, Stego-Key, Stego-Image, Luminance.

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