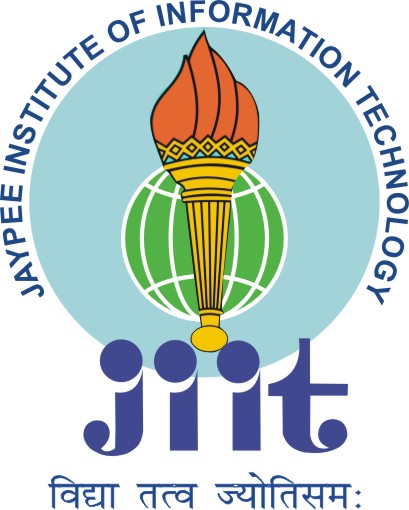
**Information Security Lab: Project Report**

**(15B17CI576)**



**Cyber-secure Communications Network**

Batch – B9

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**Overview of the Project**

Our project uses encryption techniques to encrypt files sent over a Network. These files can be either ***text, image, voice, pdf etc***. It will have varying levels of security which can be selected by the user. We will implement our own protocol to achieve this.

**Working of the Project**

Our project takes the file selected by the user and encrypts it and sends it through the network. The client will then receive the file and decrypt it.

**Techniques Used**

We used various encryption techniques such as AES, RSA, One Time Pad to ensure the security of our messages. We implemented a self-defined protocol that the user can use to keep his messages encrypted.

**Project in Detail**

1. Establishes our own self-defined network protocol
2. Multiple users can be both client and server
3. Send any type of file through the network
4. The file will then be encrypted and sent so that anyone who intercepts it will not be able to decipher it
5. The encrypted file that will be received will first be decrypted and then shown.

**Real life Applications**

Our project can be used by various agencies that want their data that is sent over the network, to remain safe. There are a lot of cases of the snooping by Chinese agencies who intercept the data when it is being transmitted.