1. **Problem Addressed - Implement secure data transfer using steganography**
2. **Problem Code - #ISR46**
3. **Title of Project – “Data Hiding Machine”**
4. **Unique Team name – “Tegh”**
5. **Team members’ names - MANIK SOOD, DILPREET SINGH, RITWIK TIWARI, SAKSHI SHARMA, HIMANK JOG, AKSHAT MATHUR**

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
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Dated: 13th December, 2016

Dear Selection Committee,

We Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh, are keen to send our Team **"Tegh"** for the problem "**Implement secure data transfer using steganography"** for The Smart India Hackathon '17. Kindly, consider our University's participants.

Our University was set up by Act No. 14 of 2002 vide Extraordinary Gazette notification of Government of Himachal Pradesh dated May 23, 2002 and was also approved by the University Grants Commission under section 2(f) of the UGC Act.

Team members :

1. MANIK SOOD– **TEAM LEADER**
2. DILPREET SINGH
3. RITWIK TIWARI
4. SAKSHI SHARMA
5. HIMANK JOG
6. AKSHAT MATHUR

I shall highly appreciate if you could please confirm our participation/registration so that we plan out the team's travel as the Hackathon on is falling during vacation of our University.

Thanking you.

Your Sincerely,

Dr. Samir Dev Gupta
(Director and Academic Head)
Jaypee University of Information Technology,
Waknaghat, Distt.-Solan (HP) 173234, India

(Prof. Samir Dev Gupta)

Director,

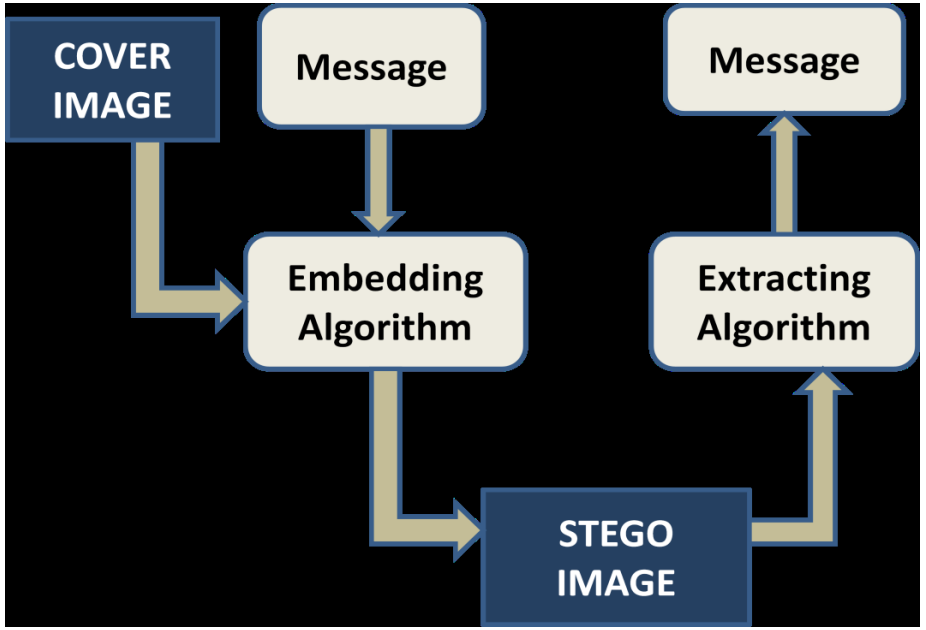
Jaypee University of Information Technology, Wakhnaghat

Idea/Approach Details – Slide -1

1. Converting plain text into cipher text using Cryptography.
2. Embedding the cipher text into an Image.
3. Implementing our own algorithm for steganography.
4. Comparing the results and errors of different algorithms used.

Implementation :

1. Designing a web application which will take data – text, image, any file etc.
2. Hiding the file/data in the image using our steganography algorithm.
3. At receiver end we will apply back ground subtraction algorithm for fetching our data back in the real form.



Idea/Approach Details – Slide -2

Steganography and Cryptography Combine : Improved Method of Data Hiding

1. Converting the plain text into Cipher text.
2. Embed Cipher text into the cover image
3. Image will be converted into stego image.
4. We will send the stego image to the receiver end with the private key for data encryption.