Subject: Information Security Lab (ICT 3141)　　　　　　**Date: 28-08-2025**
Semester & Branch: 5th Sem, CCE B1 – Program Check

Name:　　　　　　　　　　　　**Reg. No:**　　　　　　**Roll No:**

Question:

Implement the following scenario in python showcasing various cryptographic techniques:

- Use the Playfair cipher with the keyword *"POTATO"* to encipher the message *"The key is hidden under the door pad"*.

- Generate the necessary keys for the participants and AES key must be shared by the encoder to the decoder using RSA public key cryptography.

- Encrypt the message "Information Security Lab Evaluation One" using AES-128 with the key "0123456789ABCDEF0123456789ABCDEF", and decrypt it to verify correctness.

- Compare the encryption times for both of these techniques and plot the graph.

Show the output for all steps above.