

**CRYPTOGRAPHY AND NETWORK SECURITY LAB**

**B.Tech. III Year II Sem.  
Course Code: CS604PC**

**L T P C  
0 0 3 2**

- 1. Write a C program that contains a string (char pointer) with a value 'Hello world'.The program should XOR each character in this string with 0 and displays the result.**
- 2. Write a C program that contains a string (char pointer) with a value 'Hello world'.The program should AND or and XOR each character in this string with 127 and display the result.**
- 3. Write a Java program to perform encryption and decryption using the following algorithms**
  - a. Ceaser cipher b. Substitution cipher c. Hill Cipher**
- 4. Write a C/JAVA program to implement the DES algorithm logic.**
- 5. Write a C/JAVA program to implement the Blowfish algorithm logic.**
- 6. Write a C/JAVA program to implement the Rijndael algorithm logic.**
- 7. Write the RC4 logic in Java Using Java cryptography; encrypt the text "Hello world" using Blowfish. Create your own key using Java key tool.**
- 8. Write a Java program to implement RSA algorithm.**
- 9. Implement the Diffie-Hellman Key Exchange mechanism using HTML and JavaScript.**
- 10. Calculate the message digest of a text using the SHA-1 algorithm in JAVA.**
- 11. Calculate the message digest of a text using the MD5 algorithm in JAVA.**