23CS32P2 – CRYPTOGRAPHY AND NETWORK SECURITY LAB

Course Category:	Professional Core	**Credits:**	1.5
Course Type:	Practical	**Lecture-Tutorial-Practical:**	0-0-3
Prerequisite:	Nil	**Sessional Evaluation:** **Univ. Exam Evaluation:** **Total Marks:**	30 70 100

Course Content:	**LIST OF EXPERIMENTS (WITH BLOOM'S COGNITIVE LEVELS):** 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..