CRYPTOGRAPHY AND INFORMATION SECURITY LAB
(Common to CSE&IT)

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IV B. Tech. - I Semester				
Course Code: A3CS33	-	-	3	2

COURSE OVERVIEW:
To give practical exposure on basic security attacks, encryption algorithms, authentication techniques. Apart from security algorithms, firewall configuration is also introduced.

COURSE OBJECTIVES:
1. To provide deeper understanding into cryptography, its application to network security, threats/vulnerabilities to networks and countermeasures.
2. To explain various approaches to Encryption techniques, strengths of Traffic Confidentiality, Message Authentication Codes.
3. To familiarize symmetric and asymmetric cryptography

COURSE OUTCOMES:
At the end of this course students will be able to:
1. Identify basic security attacks and services
2. Use symmetric and asymmetric key algorithms for cryptography
3. Make use of Authentication functions

SYLLABUS

LIST OF EXPERIMENTS:

Lab 1: Implementation of Caesar Cipher technique

Lab 2: Implement the Play fair Cipher

Lab 3: Implement the Pure Transposition Cipher

Lab 4: Implement DES Encryption and Decryption

Lab 5: Implement the AES Encryption and decryption

Lab 6: Implement RSA Encryption Algorithm

Lab 7: Implementation of Hash Functions