Diploma, Anna Univ UG & PG Courses

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IT8761 SECURITY LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To learn different cipher techniques
- To implement the algorithms DES, RSA, MD5, SHA-1
- To use network security tools and vulnerability assessment tools

LIST OF EXPERIMENTS

- 1. Perform encryption, decryption using the following substitution techniques
 - (i) Ceaser cipher, (ii) playfair cipher iii) Hill Cipher iv) Vigenere cipher
- 2. Perform encryption and decryption using following transposition techniques
 - i) Rail fence ii) row & Column Transformation
- 3. Apply DES algorithm for practical applications.
- 4. Apply AES algorithm for practical applications.
- 5. Implement RSA Algorithm using HTML and JavaScript
- 6. Implement the Diffie-Hellman Key Exchange algorithm for a given problem.
- 7. Calculate the message digest of a text using the SHA-1 algorithm.
- 8. Implement the SIGNATURE SCHEME Digital Signature Standard.
- 9. Demonstrate intrusion detection system (ids) using any tool eg. Snort or any other s/w.
- 10. Automated Attack and Penetration Tools Exploring N-Stalker, a Vulnerability Assessment Tool
- 11. Defeating Malware
 - i) Building Trojans ii) Rootkit Hunter