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NETWORK SECURITY AND CRYPTOGRAPHY

L3 T3 P0 Credits:3

By the end of this course students should be able to

1. Demonstrate a sound and critical understanding of the concepts, issues, principles and vulnerabilities of IT systems

- 2. Discussing some of the critical security challenges faced by today's computing world and provides insights to possible mechanisms to defend against these attacks
- 3. Develop basic security enhancements in stand-alone applications
- 4. Digital signature and its importance in transaction processing
- 5. Define the need for protection and security, and the role of ethical computing in computer use

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Unit I

Introduction to Cryptography : Cryptographic Attacks, Security Mechanisms, Security Services, Mathematics of Cryptography - Sets, Modular Arithmetic

Traditional Symmetric Key Ciphers : Transposition Ciphers, Substitution Ciphers, Vigenere Cipher, Introduction to Symmetric Key Ciphers, Mathematics of Symmetric Key Cryptography - Algebraic structures

Classification of Attacks

Wireless Mobile Ad Hoc Networks and Vehicular

Ad Hoc Networks : Introduction to Attacks, Attacks at the Physical Layer, Attacks at the MAC Layer, Attacks at the Network Layer, Attacks at the Transport Layer, Attacks at the Application Layer

Unit II

Mathematics of Asymmetric Key Cryptography : Chinese Remainder Theorem, Discrete Logarithm, Prime Number

Data Encryption Standard (DES) and Advanced Encryption Standard (AES) : Introduction to DES, Structure of DES, Security of DES, Introduction to AES, Transformation in AES, Key expansion in AES, AES Cipher

Unit III

Key Management : Symmetric key distribution, Symmetric key agreement, Public Key Distribution

Asymmetric Key Cryptography : Introduction to Asymmetric Key Cryptography, RSA cryptosystems

Unit IV

Message Integrity and Authentication : Message Integrity, Message Authentication, Introduction to Cryptographic Hash Functions, SHA, HMAC

Unit V

Digital Signature : Comparison with Conventional Signature, Process of Digital Signature, Services Provided by Digital Signature, Digital Signature Schemes

Unit VI

Security at Network Layer (IPsec) : Modes of IPsec, Two Security Protocols of IPsec, Security Association, Security Policy

Security at Application Layer : Email, PGP

Text Books:

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