Mindluster Platform

About the course Cryptography and Network Security

Cryptography and Network Security course, in this course Explore the core principles and techniques of cryptography, securing data through encryption and decryption methods

Computer Science Category's Courses

Course Lesson(82)

Lesson 1 : **Introduction to Cryptography and Network Security**

Lesson 2 : **CIA Triad**

Lesson 3 : **The OSI Security Architecture**

Lesson 4 : **Security Attacks**

Lesson 5 : **Security Services**

Lesson 6 : **Security Mechanisms**

Lesson 7 : **Network Security Model**

Lesson 8 : **Cryptography**

Lesson 9 : **Cryptography â€“ Key Terms**

Lesson 10 : **Cryptanalysis**

Lesson 11 : **Brute Force Attack**

Lesson 12 : **Classical Encryption Techniques**

Lesson 13 : **Caesar Cipher Part 1**

Lesson 14 : **Caesar Cipher Part 2**

Lesson 15 : **Monoalphabetic Cipher**

Lesson 16 : **Playfair Cipher Part 1**

Lesson 17 : **Playfair Cipher Part 2**

Lesson 18 : **Playfair Cipher Solved Question**

Lesson 19 : **Hill Cipher Encryption**

Lesson 20 : **Hill Cipher Decryption**

Lesson 21 : **Polyalphabetic Cipher VigenÃ¨re Cipher**

Lesson 22 : **Polyalphabetic Cipher Vernam Cipher**

Lesson 23 : **One Time Pad**

Lesson 24 : **Rail Fence Technique**

Lesson 25 : **Row Column Transposition Ciphering Technique**

Lesson 26 : **Steganography**

Lesson 27 : **LSB Steganography Demo**

Lesson 28 : **Cryptography Solved Questions**

Lesson 29 : **Abstract Algebra and Number Theory**

Lesson 30 : **Prime Numbers in Cryptography**

Lesson 31 : **Modular Arithmetic Part 1**

Lesson 32 : **Modular Arithmetic Part 2**

Lesson 33 : **Modular Exponentiation Part 1**

Lesson 34 : **Modular Exponentiation Part 2**

Lesson 35 : **GCD Euclidean Algorithm Method 1**

Lesson 36 : **GCD Euclidean Algorithm Method 2**

Lesson 37 : **Relatively Prime Co Prime Numbers**

Lesson 38 : **Euler s Totient Function Phi Function**

Lesson 39 : **Euler s Totient Function Solved Examples**

Lesson 40 : **Fermat s Little Theorem**

Lesson 41 : **Euler s Theorem**

Lesson 42 : **Primitive Roots**

Lesson 43 : **Multiplicative Inverse**

Lesson 44 : **Extended Euclidean Algorithm Solved Example 1**

Lesson 45 : **Extended Euclidean Algorithm Solved Example 2**

Lesson 46 : **Extended Euclidean Algorithm Solved Example 3**

Lesson 47 : **The Chinese Remainder Theorem Solved Example 1**

Lesson 48 : **The Chinese Remainder Theorem Solved Example 2**

Lesson 49 : **The Discrete Logarithm Problem**

Lesson 50 : **The Discrete Logarithm Problem Solved Example**

Lesson 51 : **Prime Factorization Fermat s Factoring Method**

Lesson 52 : **Testing for Primality Fermat s Test**

Lesson 53 : **Testing for Primality Miller Rabin Test**

Lesson 54 : **Group and Abelian Group**

Lesson 55 : **Cyclic Group**

Lesson 56 : **Rings Fields and Finite Fields**

Lesson 57 : **Stream Cipher vs Block Cipher**

Lesson 58 : **Feistel Cipher Structure**

Lesson 59 : **Introduction to Data Encryption Standard DES**

Lesson 60 : **Single Round of DES Algorithm**

Lesson 61 : **The F Function of DES Mangler Function**

Lesson 62 : **Key Scheduling and Decryption in DES**

Lesson 63 : **Avalanche Effect and the Strength of DES**

Lesson 64 : **Data Encryption Standard DES Solved Questions**

Lesson 65 : **Introduction to Advanced Encryption Standard AES**

Lesson 66 : **AES Encryption and Decryption**

Lesson 67 : **AES Round Transformation**

Lesson 68 : **AES Key Expansion**

Lesson 69 : **AES Security and Implementation Aspects**

Lesson 70 : **Multiple Encryption and Triple DES**

Lesson 71 : **Block Cipher Modes of Operation**

Lesson 72 : **Electronic Codebook ECB**

Lesson 73 : **Cipher Block Chaining CBC**

Lesson 74 : **Cipher Feedback CFB**

Lesson 75 : **Output Feedback OFB**

Lesson 76 : **Counter Mode CTR**

Lesson 77 : **Block Cipher Modes of Operation Solved Question**

Lesson 78 : **Pseudorandom Number Generator PRNG**

Lesson 79 : **Golomb s Randomness Postulates**

Lesson 80 :
Public Key Cryptography | Chapter 4 | Cryptography Network Security | nesoacademy org

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Hash Functions Digital Signatures | Chapter 5 | Cryptography Network Security | nesoacademy org

Lesson 82 :
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