Mindluster Platform

# About the course Computer networks types for beginners

Computer networks types course in hindi, in this course we will learn about the types of computer networks, their functionalities, and their significance. Computer networks are the backbone of modern communication systems, enabling data exchange and connectivity across various devices and locations. We'll explore different network types, including Local Area Networks (LAN) that connect devices within a limited area, and Wide Area Networks (WAN) that cover broader geographic regions. We'll delve into Wireless Networks, which use radio waves for data transmission, and the Internet, the global network connecting millions of private and public networks. Additionally, we'll discuss Virtual Private Networks (VPN) for secure connections, Peer-to-Peer Networks where devices share resources directly, and Cloud Computing Networks that provide scalable online services. By the end of this course, you'll have a comprehensive understanding of these network types, their applications, and how they shape the digital world. This knowledge is essential for anyone interested in IT, network administration, or cybersecurity. Join us to uncover the intricacies of computer networks and their pivotal role in today's technology-driven environment.

**Computer Science Category's Courses**

# Course Lesson(57)

Lesson 1 : **Types of Computer Networks**

Lesson 2 : **Network Topologies BUS STAR MESH RING TREE HYBRID COMPUTER CN**

Lesson 3 : **Data Link Layer Design Issues Services Provided to Network Layer**

Lesson 4 : **Framing in Data Link Layer Design Issues Byte Stuffing Bit Stuffing Character Count CN**

Lesson 5 : **Error Control in Data link layer Design Issues Error Detection and Correction CN**

Lesson 6 :
**Flow Control Data Link Layer Design Issues Stop and Wait Protocol Sliding Window Protocol**

Lesson 7 :
**Cyclic Redundancy Check CRC Error Detection Data Link Layer Design Issues Error Control**

Lesson 8 : **Parity Check Error Detection Data Link Layer Design Issues Error Control Even Odd**

Lesson 9 : **Checksum Error Detection Technique**

Lesson 10 : **Hamming Code Error Detection and Error Correction**

Lesson 11 :
**Sliding window protocol Types of sliding window protocol 1 Bit Go Back N ARQ Selective Repeat**

Lesson 12 :
**Stop and Wait Protocol Stop and Wait ARQ Protocol Data link layer Computer Networks CN**

Lesson 13 :
**1 Bit Sliding Window protocol One Bit Sliding Window protocol Data link layer Computer networks**

Lesson 14 : **Go Back N ARQ Protocol Data link layer Computer networks**

Lesson 15 : **Selective Repeat ARQ Protocol Data link layer Computer networks**

Lesson 16 :
**Introduction to Error Detection and Correction in Computer Networks Data Link Layer CN**

Lesson 17 : **Piggybacking in Computer Networks**

Lesson 18 :
**Unrestricted Simplex Protocol Elementary Data Link Protocols Data Link Layer Computer Networks**

Lesson 19 :
**Simplex Stop and Wait Protocol for Noiseless Error Free Channel Elementary Data Link Protocols CN**

Lesson 20 :
**Simplex Stop and Wait Protocol for Noisy Channel Error Channel Elementary Data Link Protocols CN**

Lesson 21 : **Pure Aloha in Computer Networks**

Lesson 22 : **Slotted Aloha in Computer Networks**

Lesson 23 : **CSMA Carrier Sense Multiple Access Protocol in Computer Networks**

Lesson 24 :
**CSMA CD protocol in computer networks Carrier Sense Multiple Access With Collision Detection CN**

Lesson 25 :
**CSMA CA Protocol in Computer Networks Carrier Sense Multiple Access With Collision Avoidance**

Lesson 26 :
**Collision Free Protocols in Computer Networks 1 Bit Map protocol Binary Countdown protocol**

Lesson 27 : **Controlled Access Protocol Reservation Computer Networks**

Lesson 28 : **Controlled Access Protocol Polling Computer Networks**

Lesson 29 : **Controlled Access Protocols Token Passing Computer Networks**

Lesson 30 : **Controlled Access Protocols Reservation Polling Token Passing Computer Networks**

Lesson 31 : **Shortest Path Routing Algorithm Dijkstra s algorithm Computer Networks**

Lesson 32 : **Flooding in computer networks Flooding routing algorithm in computer networks CN**

Lesson 33 : **Distance Vector Routing Algorithm in Computer Networks**

Lesson 34 : **Link State Routing Algorithm in Computer Networks**

Lesson 35 : **Hierarchical Routing in Computer Networks Routing Algorithms**

Lesson 36 : **Broadcast Routing in Computer Networks Routing Algorithms**

Lesson 37 :
**Introduction to Routing Algorithms Types of Routing Algorithms Adaptive Non Adaptive Static**

Lesson 38 : **Network Layer Design Issues**

Lesson 39 : **Classful Addressing Class A IP addressing Class B Class C Class D Class E CN**

Lesson 40 : **ICMP Protocol Internet Control Message Protocol**

Lesson 41 : **ARP Protocol Address Resolution Protocol**

Lesson 42 : **RARP Protocol Reverse Address Resolution Protocol**

Lesson 43 : **BOOTP Protocol BootStrap Protocol Computer Networks**

Lesson 44 : **DHCP Protocol Dynamic Host Configuration Protocol Computer Networks**

Lesson 45 :
**TCP Connection Establishment Three Way Handshake Transport layer Computer Networks**

Lesson 46 : **TCP Data Transfer Transport Layer Computer Networks**

Lesson 47 :
**TCP Connection Termination Three Four Way Handshake Transport layer Computer Networks**

Lesson 48 :
**Connection Management in TCP Connection Establishment Data Transfer Connection Termination**

Lesson 49 :
**TCP vs UDP Differences between TCP and UDP Protocols Transport Layer Computer Networks**

Lesson 50 :
**TCP Services Transport Services Responsibilities of Transport Layer Computer Networks**

Lesson 51 : **TCP Header Format Transport Layer Computer Networks Transmission Control Protocol**

Lesson 52 : **UDP Header format UDP features User Datagram Protocol**

Lesson 53 : **TCP State Transition Diagram Transport Layer Computer Networks**

Lesson 54 : **IPv4 Header Format in Computer Networks Network Layer**

Lesson 55 : **Fragmentation in Computer Networks Network Layer**

Lesson 56 : **UDP Services Computer Networks Network Layer**

Lesson 57 : **Token Ring IEEE 802 5 in Computer Networks**

# Related courses

**Linear Algebra for Computer Scientists**

**Insertion Sort**

**Bubble Sort**

**GCSE Computer Science**

**Random Access Memory**

**Binary Trees**

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