



**B.P. Poddar Institute of Management and Technology**  
**Department of Information Technology**  
**Academic Year: 2026-2027, Sem: Even**

**Lesson Plan**

Stream : B.Tech/IT-3rd Year

Subject : Computer Networkd

Subject Code : PCC-CS602

Faculty Name: Ushashi Chowdhury

Lecture No.	Description	References	Pedagogy	Planned Date	Actual Date
L1	Introduction to Data Communication, Components, Representation of Data and Flow	T1, R1	Chalk & Talk, PPT		
L2	Networks, Connection Topologies, Protocols and Standards	T1, R1	Chalk & Talk, PPT		
L3	OSI Model – Layers and Functions	T1, R1	Chalk & Talk, PPT		
L4	Transmission Media – Wired & Wireless	T1, R1	Chalk & Talk, PPT		
L5	LAN: Wired LAN, Wireless LANs, Virtual LAN	T1, R1	Chalk & Talk, PPT		
L6	Bandwidth Utilization Techniques – Multiplexing (FDM, TDM, WDM)	T1, R1	Chalk & Talk, PPT		
L7	Spread Spectrum Concepts	T1, R1	Chalk & Talk, PPT		
L8	Data Link Layer – Error Detection & Correction Fundamentals	T2, R1	Chalk & Talk, PPT		
L9	Block Coding, Hamming Distance, CRC	T2, R1	Chalk & Talk, PPT		
L10	Flow Control & Error Control Protocols – Stop & Wait, Go-Back-N ARQ	T2, R1	Chalk & Talk, PPT		
L11	Selective Repeat ARQ, Sliding Window, Piggybacking	T2, R1	Chalk & Talk, PPT		
L12	Random Access Protocols – Pure ALOHA, Slotted ALOHA	T2, R1	Chalk & Talk, PPT		

Lecture No.	Description	References	Pedagogy	Planned Date	Actual Date
L13	Multiple Access Protocols – CSMA/CD, CDMA/CA	T2, R1	Chalk & Talk, PPT		
L14	Network Layer – Switching, Logical Addressing (IPv4, IPv6)	T3, R2	Chalk & Talk, PPT		
L15	Address Mapping – ARP, RARP, BOOTP, DHCP	T3, R2	Chalk & Talk, PPT		
L16	Delivery, Forwarding & Unicast Routing Protocols	T3, R2	Chalk & Talk, PPT		
L17	Transport Layer – Process-to-Process Communication	T3, R2	Chalk & Talk, PPT		
L18	UDP, TCP, SCTP	T3, R2	Chalk & Talk, PPT		
L19	Congestion Control Techniques	T3, R2	Chalk & Talk, PPT		
L20	QoS & Improving Techniques – Leaky Bucket, Token Bucket	T3, R2	Chalk & Talk, PPT		
L21	Application Layer – DNS, DDNS	T4, R2	Chalk & Talk, PPT		
L22	TELNET, EMAIL, FTP	T4, R2	Chalk & Talk, PPT		
L23	WWW, HTTP, SNMP	T4, R2	Chalk & Talk, PPT		
L24	Bluetooth, Firewalls	T4, R2	Chalk & Talk, PPT		
L25	Basics of Cryptography	T4, R2	Chalk & Talk, PPT		

**Text Books:**

- **T1:** Data Communications and Networking – Behrouz A. Forouzan
- **T2:** Computer Networks – Andrew S. Tanenbaum
- **T3:** Internetworking with TCP/IP – Douglas Comer
- **T4:** Cryptography and Network Security – William Stallings

**Reference Books:**

- **R1:** Data and Computer Communications – William Stallings
- **R2:** Computer Networking: Principles, Protocols and Practice – Olivier Bonaventure