



**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY,
PANIPAT
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

COURSE PLAN

Faculty Name: - PUNIT SONI

Subject Name: - Computer Networks

Branch/Semester: - CSE - 5th Sem (B)

Subject Code:-CSE-303N

Sr No.	Lecture No.	Topics To Be Covered	Planned On	Covered On	Remarks
1	L 1	Unit: 1 Network functions, Network Topologies and Goals of Networking.	17/07/19		
2	L 2	Network Services, Network Types: LAN, MAN, WAN.	18/07/19		
3	L 3	Transmission Networks, Data Communication Systems.	19/07/19		
4	L 4	Broadcast and Point to Point Networks.	24/07/19		
5	L 5	OSI Reference model.	25/07/19		
6	L 6	TCP/IP Reference Model, Differences b/w OSI & TCP/IP.	26/07/19		
7	L 7	Signals, Bandwidth, Transmission Impairments.	31/07/19		
8	L 8	Multiplexing and signaling techniques.	01/08/19		
9	L 9	Transmission Media: Wired, Wireless, Twisted Pair.	02/08/19		
10	L 10	Coaxial Cable, Fibre Optics, Radio wave, Microwave, Infrared.	07/08/19		
11	L 11	Switching: Circuit, Packet switching, Message switching.	08/08/19		
12	L 12	ISDN: Basic and Broadband ISDN, ATM.	09/09/19		
13	L 13	Unit: 2 Error Control, Types of errors.	14/08/19		
14	L 14	Framing: Character Stuffing and Bit Stuffing.	16/08/19		
15	L 15	Error Detection & Correction methods	21/08/19		
16	L 16	Flow control, Protocols: Stop & wait, Sliding window protocols.	22/08/19		
17	L 17	Stop & wait ARQ, Go-Back- N ARQ, Selective repeat ARQ.	23/08/19		
18	L 18	HDLC, Point to Point protocols.	28/08/19		
19	L 19	FDDI, Token Bus, Token Ring. Reservation Polling.	29/08/19		
20	L 20	MAC Protocols: ALOHA, Slotted ALOHA, CSMA.	30/08/19		

21	L 21	CSMA/CD, FDMA, TDMA, CDMA.	04/09/19		
22	L 22	LLC, Ethernet, Fast Ethernet.	05/09/19		
23	L 23	Network Devices: Repeater, Hub, Switch, Bridge, Router, Gateway.	06/09/19		
24	L 24	Unit: 3 Internet addressing, Subnetting.	11/09/19		
25	L 25	Routing techniques and implementation.	12/09/19		
26	L 26	Static routing, Dynamic Routing, Routing tables, DHCP.	13/09/19		
27	L 27	IEEE standards 802.x, Routing Algorithms.	18/09/19		
28	L 28	Shortest Path Algorithms, Flooding.	19/09/19		
29	L 29	Distance Vector Routing, Link State Routing.	20/09/19		
30	L 30	ARP, RARP, IP, ICMP, IGMP, ICMP, IPV6.	25/09/19		
31	L 31	Unicasting and Multicasting Routing Protocols.	26/09/19		
32	L 32	Unit 4: Process to Process Delivery, UDP, TCP, RPC.	27/09/19		
33	L 33	Congestion Control Algorithms and various types	09/10/19		
34	L 34	Leaky Bucket Algorithm, Token Bucket Algorithm.	11/10/19		
35	L 35	Choke Packets, QoS and its Techniques.	16/10/19		
36	L 36	DNS, SMTP, SNMP, FTP, HTTP, E MAIL, WWW.	17/10/19		
37	L 37	Firewalls, User Authentication, Bluetooth, IMAP.	24/10/19		
38	L 38	Cryptography, Security Protocols in Internet.	06/11/19		
39	L 39	Public key encryption, Digital Signature	08/11/19		

S. No.	Topic Beyond Syllabus (covered)	Date	Percentage of students	Relevance to PO's & PSO's
1	Secure Socket Layer	10/10/19		PO1, PO2, PO4, PO5
2	Wireless Sensor Networks	23/10/19		PO1, PO2, PO4, PO5
3	Web Security and its requirements	07/11/19		PO1, PO2, PO3, PO4, PO6

Punit Soni
(Subject Incharge)