

**DEPARTMENT OF COMPUTER ENGINEERING & IOT**



**LESSON PLAN**

**SUBJECT: COMPUTER NETWORK**

**BRANCH: 4<sup>TH</sup> SEM, CE&IOT**

**FACULTY NAME: Barsha Rani Patel**

## **OUR MISSION**

- To provide state of the art infrastructure and vibrant environment conducive to quick & qualitative learning through excellent teaching and guidance of dedicated faculties.
- To provide exposure to industry through suitable Institution-Industry-Interaction programs to enhance employability.
- To provide platform for development of personality traits like professional attitude, Communication Skills etc. to produce competent technocrats.

## **OUR VISION**

To emerge as one of the Nation's finest institutions of higher learning in the field of technical education to develop professionals who are technically competent, ethical & environmental friendly for

**LEARNING OUTCOMES:** After competing this course, student will be able to:

- Explain the basic concepts related to computer networks
- Explain various network media and topologies used in computer network
- Exhibit LAN & VLAN concept related to datalink layer
- Exhibit Routing algorithm and Routing Protocols
- Explain Protocols related to Application Layer
- Illustrate Networking Devices.

# SYLLABUS PLAN

JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA  
 Name of the Faculty: Mrs. Barsha rani Patel

Course Name: \_\_\_\_\_

Computer Networks

Course No.: ITPC206/TH3

Program: Diploma Branch: CE&IOT

Semester: 4<sup>th</sup>

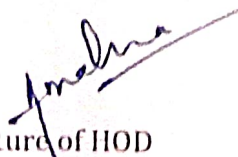
Total Classes: 45

Sl No	Class	Time (min)	Unit	Topic to be Covered	Teaching Method
1	1	60	I	Introduction to Computer Networks	Chalk & Talk
2	2	60	I	Network Models	Chalk & Talk
3	3	60	I	OSI Reference Model	PPT
4	4	60	I	TCP/IP Model	Chalk & Talk
5	5	60	I	Comparison of OSI & TCP/IP	Video
6	6	60	I	Revision & Questions	Discussion
7	7	60	II	Transmission Media - Principles	Chalk & Talk
8	8	60	II	Guided Media: UTP, STP, Coaxial	PPT
9	9	60	II	Fiber Optic Cable	Video
10	10	60	II	Wireless Media	Chalk & Talk
11	11	60	II	WiFi & Cellular Networks	PPT
12	12	60	II	Network Topologies	Chalk & Talk
13	13	60	II	Revision	Quiz
14	14	60	III	Data Link Layer - Design Issues	Chalk & Talk
15	15	60	III	Ethernet	PPT
16	16	60	III	WLAN & Bluetooth	Chalk & Talk

	17	60	III	Switching Techniques	Chalk & Talk
	18	60	III	VLAN Concept	PPT
	19	60	III	Revision	Quiz
20	20	60	IV	Network Layer - Design Issues	Chalk & Talk
21	21	60	IV	IPv4 & IPv6	PPT
22	22	60	IV	Routing Principles	Chalk & Talk
23	23	60	IV	Distance Vector Routing	Chalk & Talk
24	24	60	IV	Link State Routing	PPT
25	25	60	IV	Routing Protocols: RIP, OSPF	Video
26	26	60	IV	Revision	Quiz
27	27	60	V	Transport Layer - Design Issues	Chalk & Talk
28	28	60	V	UDP	PPT
29	29	60	V	TCP	Chalk & Talk
30	30	60	V	UDP vs TCP	Discussion
31	31	60	V	Revision	Quiz
32	32	60	VI	Application Layer - Design Issues	Chalk & Talk
33	33	60	VI	DNS & DHCP	PPT
34	34	60	VI	SNMP	Chalk & Talk
35	35	60	VI	FTP & TFTP	PPT
36	36	60	VI	SMTP & WWW	Chalk & Talk
37	37	60	VI	Telnet & SSH	Video
38	38	60	VI	Revision	Quiz
39	39	60	VII	Networking Devices - NIC & Hub	Chalk & Talk
40	40	60	VII	Switch - Core, Distribution, Access	PPT
41	41	60	VII	Router	Chalk & Talk
42	42	60	VII	WiFi Access Point	PPT
43	43	60	VII	Wireless LAN Controller	Chalk & Talk
44	44	60	VII	Revision	Quiz
45	45	60	VII	Overall Revision	Discussion

Barsha Rani Patel.

Signature of the Faculty

  
Signature of HOD