

# GOVT. POLYTECHNIC COLLEGE, DINDORI

## DEPT. OF COMPUTER SCIENCE

### LESSON PLAN (2017-18)

SUBJECT: Computer Network

SEM: 4<sup>th</sup>

Faculty Name: Ravindra Kumar

S.No.	Unit	Topic to be covered	Expected Date	Actual Date	Remark
1	1 <sup>st</sup>	Basics of Networks - Definition Need, Uses and Advantages	10th Jan 2018		
2	1 <sup>st</sup>	Types of Computer Networks, LAN, MAN, WAN	11th Jan 2018		
3	1 <sup>st</sup>	Network Architectures: Peer to Peer, Client-Server	12th Jan 2018		
4	1 <sup>st</sup>	Hybrid, Intranet, Internet and Extranet	13th Jan 2018		
5	1 <sup>st</sup>	Different Topologies Bus, Ring, Star, Hybrid	15th Jan 2018		
6	2 <sup>nd</sup>	Detailed Layered architecture of OSI	16th Jan 2018		
7	2 <sup>nd</sup>	TCP/IP Reference Model	17th Jan 2018		
8	2 <sup>nd</sup>	Comparison Between OSI Vs. TCP/IP reference Model	18th Jan 2018		
9	2 <sup>nd</sup>	Introduction to various LAN and WAN Protocols	19th Jan 2018		
10	2 <sup>nd</sup>	Type of Addresses: , Need	20th Jan 2018		
11	2 <sup>nd</sup>	advantages and disadvantages	22nd Jan 2018		
12	2 <sup>nd</sup>	IP Addresses : Class Full Addressing Network ID	23rd Jan 2018		
13	2 <sup>nd</sup>	Host ID Special Addressing	25th Jan 2018		
14	2 <sup>nd</sup>	Overview OF Subnetting and Supernetting	27th Jan 2018		
15	2 <sup>nd</sup>	VLAN	29th Jan 2018		
16	3 <sup>rd</sup>	Networking Media – Coaxial, UTP, Shielded	30th Jan 2018		
17	3 <sup>rd</sup>	Twisted Pair	31st Jan 2018		
18	3 <sup>rd</sup>	Fiber Optical Cable	1st Feb 2018		
19	3 <sup>rd</sup>	wireless media	2nd Feb 2018		
20	3 <sup>rd</sup>	Networking Devices – NIC,	3rd Feb 2018		

		Modem , Hub, Repeater			
21	3 <sup>rd</sup>	Switches, Bridge, Router	5th Feb 2018		
22	3 <sup>rd</sup>	Gateway, Wi-Fi, VSAT	6th Feb 2018		
23	3 <sup>rd</sup>	Structured cabling- Concept, advantages, racks	7th Feb 2018		
24	3 <sup>rd</sup>	patch panel, crimping and punch tool, patch cords	8th Feb 2018		
25	3 <sup>rd</sup>	RJ Connectors, Information Outlets (I/O Box) , Media Converter	9th Feb 2018		
26	3 <sup>rd</sup>	Types of Connectivity – Dial up, Digital Subscriber Link (DSL),	10th Feb 2018		
27	3 <sup>rd</sup>	ADSL , Leased line	12th Feb 2018		
28	3 <sup>rd</sup>	Cable Net , WI-FI, WI-MAX, CDMA,GSM	13th Feb 2018		
29	3 <sup>rd</sup>	Introduction to Network Operating System(NOS):	15th Feb 2018		
30	4 <sup>th</sup>	ARP/RARP: Resolution	16th Feb 2018		
31	4 <sup>th</sup>	Packet format mapping and encapsulation	17th Feb 2018		
32	4 <sup>th</sup>	Internet protocol(IP)	19th Feb 2018		
33	4 <sup>th</sup>	Virtual network, Connectionless, unreliable, Packet Delivery System	20th Feb 2018		
34	4 <sup>th</sup>	Datagram format: Datagram size, Network MTU and fragmentation	21th Feb 2018		
35	4 <sup>th</sup>	Time stamp option. IP Routing algorithm.IP Checksum	22th Feb 2018		
36	4 <sup>th</sup>	ICMP and IGMP : Introduction and message format	23th Feb 2018		
37	5 <sup>th</sup>	UDP: Introduction to User Data gram Protocol, Format of UDP Message	24th Feb 2018		
38	5 <sup>th</sup>	Pseudo Header, Multiplexing & Demultiplexing	26th Feb 2018		
39	5 <sup>th</sup>	TCP:Introduction to Transmiss Control Protocol	27th Feb 2018		
40	5 <sup>th</sup>	Ports, Connections And Endpoints	28th Feb 2018		
41	5 <sup>th</sup>	TCP Segment Format	1st March 2018		
42	5 <sup>th</sup>	Checksum Computation, Establishing a TCP Connection	3rd March 2018		
43	6 <sup>th</sup>	Introduction to FTP,TELNET, NFS,	5th March 2018		

44	6 <sup>th</sup>	SMTP, rlogin, SNMP	6th March 2018		
45	6 <sup>th</sup>	DNS Applications: Concept of DNS, Mapping DNS resource record	7th March 2018		
46	6 <sup>th</sup>	DNS Resolution, DHCP	8th March 2018		
47	6 <sup>th</sup>	VPN, IPv6, ICMPv6	9th March 2018		
48	7 <sup>th</sup>	Vector Distance & link state routing protocol	12th March 2018		
49	7 <sup>th</sup>	Routing Information Protocol	13th March 2018		
50	7 <sup>th</sup>	Open SPF Protocol gateway to Gateway Protocol	14th March 2018		
51	7 <sup>th</sup>	Hardware Broadcast, Hardware Multicast	15th March 2018		
52	7 <sup>th</sup>	IP Multicast and Address Mapping IP Multicast to Ethernet Multicast	16th March 2018		
53	8 <sup>th</sup>	Basics, hardware and Software Requirement for wireless network	17th March 2018		
54	8 <sup>th</sup>	Types of wireless network	26th March 2018		
55	8 <sup>th</sup>	Wireless technologies	27th March 2018		
56	8 <sup>th</sup>	Wireless networking standards	28th March 2018		
57	8 <sup>th</sup>	Application of wireless network	29th March 2018		