

<b>Name Of the Faculty:</b>	Rohit Sharma
<b>Discipline:</b>	BCA
<b>Semester:</b>	5th Sem
<b>Subject:</b>	Computer Networks
<b>Lesson Plan Duration :</b>	
<b>**Work Load (Lecture/Practical) per week (In Hours):Lecture -03 (Of One Sections)- 03</b>	
<b>Lab of One Section</b>	
<b>Week</b>	<b>Topic (including assignment/test) (In Each Section )</b>
1	Introduction to Computer Networks and its uses
	Broadcast and point-to-point networks, LAN, MAN, WAN
	Internetworks, Topologies, Wireless networks,
2	Protocols, Services, network architecture, design issues
	OSI Reference model
	TCP/IP Reference model, Comparison of OSI and TCP/IP Models.
3	Introduction to Example Networks: Internet
	X.25, Frame Relay,
	ATM.
4	<b>UNIT-1 REVISION</b>
	Analog and Digital Communications Concepts: Representing Data as Analog Signals
	Representing
5	Data as Digital Signal
	Data Rate and Bandwidth, Capacity, Baud Rate;
	Digital Carrier Systems
6	Guided and Wireless Transmission Media
	Communication Satellites
	Switching and Multiplexing
7	Switching and Multiplexing
	Dialup Networking
	Analog Modem Concepts;
8	DSL Service
	<b>UNIT-2 REVISION</b>
	Framing, error control, Flow Control
9	Error Detection and correction
	Sliding Window Protocols; Media Access Control
	Random Access Protocols
10	Token Passing Protocols
	Token Ring; Introduction to LAN technologies
	Ethernet, switched Ethernet, VLAN, fast
11	Ethernet,
	gigabit Ethernet, token ring, FDDI,
	Wireless LANs; Bluetooth
12	<b>UNIT-3 REVISION</b>
	Network Layer and Routing Concepts
	Virtual Circuits and Datagrams
13	Routing Algorithms:
	Flooding, Shortest Path Routing
	Distance Vector Routing; Link State Routing, Hierarchical
14	Routing
	Congestion Control Algorithms; Internetworking
	Network Security Issues: Security threats
15	Encryption Methods; Authentication; Symmetric –Key
	Algorithms
	Public-Key Algorithms;

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<b>Week</b>	<b>Topic (including assignment/test) (In Each Section )</b>
	<b>UNIT-4 REVISION</b>