

College of IT and Management Education

Lesson Plan

Sub : Computer Network (MCC303)
Branch : MCA
Semester : 3RD Semester MCA(July,2016 –December,2016)
Name of the Faculty : Bishnupriya Mallick

Total Credit Point: 3

Total number of classes: 40

SI No.	TOPIC PLANNED	SESSION
MODULE-I		11 HOURS
1.	introduction, evolution of computer n/w, topologies	1
2.	osi model	1
3.	tcp/ip model	1
4.	n/w arch, standardization, access n/w, n/w example, data, signal, bit rate, baud rate	1
5.	transmission-analog, digital, bandwidth, throughput	1
6.	data rate management-nyquist, shannon's theorem,	1
7.	multiplexing-FDM	1
8.	TDM, WDM	1
9.	transmission media-guided media, unguided media	1
10.	switching- circuit, packet, message	1
11.	doubt clear class	1
MODULE-II		17 HOURS
12.	error detection	1
13.	error correction	1
14.	data link control and protocol	1
15.	sliding window protocol	1
16.	mac sublayer-channel allocation problem	1
17.	multiple access protocol	1
18.	ethernet, wireless lan	1
19.	broadband wireless, bluetooth	1
20.	n/w devices-repeater, hub, bridge, switch, router, gateway	1
21.	backbone n/w, virtual lan, datalink layer switching	1
22.	wireless wan, frame relay, atm	1
23.	n/w design issues, logical addressing	1
24.	internet protocol, address mapping	1
25.	error reporting, multicasting	1
26.	delivery, forwarding, routing algorithm	1
27.	routing algorithm	1
28.	doubt clear class	1
MODULE-III		12 HOURS
29.	transport layer service and protocol-udp	1
30.	tcp	1
31.	congestion control and congestion control algorithm	1
32.	quality of service	1
33.	application layer-dns, remote logging, ftp	1
34.	snmp, multimedia, ziff's law	1
35.	cryptography, n/w security	1

36.	kerberos,ipsec	1
37.	ssl/tls	1
38.	pgp	1
39.	Vpn,firewall	1
40.	doubt clear class	1

Text Books:

1. Behrouz A. Forouzan, "Introduction to Data Communications and Networking", Fourth Edition, 2007, McGraw-Hill Education (India), New Delhi.
2. Natalia Olifer & Victor Olifer, "Computer Networks: Principles, Technologies and Protocols", First Edition, 2006, Wiley India Pvt. Ltd., New Delhi.
3. Andrew S. Tanenbaum, "Computer Networks", Fourth Edition, 2003, PHI Learning Pvt. Ltd., / Pearson Education Inc., New Delhi.

Reference Books:

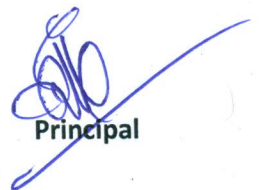
1. James F. Kurose, Keith W. Ross, "Computer Networking: A Top-Down Approach Featuring the Internet", 4th Edition (2008), Pearson Education Inc., New Delhi.
2. Wayne Tomasi, "Introduction to Data Communications and Networking", First Edition, 2005, Pearson Education Inc., New Delhi.
3. Prakash Gupta, "Data Communication and Computer Networks", 2008, PHI Learning Pvt. Ltd., New Delhi.
4. Curt White, "Data Communications and Networking", First Edition, 2008, CENGAGE Learning India Pvt. Ltd., New Delhi.
5. L. L. Peterson & B. S. Davie, "Computer Networks", Fourth Edition, Elsevier Inc



Faculty



Academic Coordinator



Principal