



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Code / Name :U15CS519/Computer Networks

Class (Year / Programme / Department / Section): III/BE/CSE/A&B

LESSON PLAN

UNIT -1(FUNDAMENTALS & LINK LAYER)				
Session No	Topic	Duration in Minutes	Teaching Aid	Book Referred
1	Building a network	45	BB	R2
2	Requirements	45	BB	R2
3	Layering and protocols	45	BB	R2
4	Internet Architecture	45	BB	R2
5	Network software	45	BB	R2
6	Performance	45	BB	R2
7	Link layer Services	45	BB	R2
8	Framing	45	BB	R2
9	Error Detection	45	BB	R2
10	Flow control	45	BB	R2
UNIT -2(ROUTING)				
1	Routing (RIP, OSPF, metrics)	45	BB	R2
2	Switch basics	45	BB	R2
3	Global Internet (Areas, BGP, IPv6)	45	BB	R2
4	Multicast	45	BB	R2
5	addresses	45	BB	R2
6	multicast routing (DVMRP, PIM)	45	BB	R2
7	Global Internet	45	BB	R2
8	multicast routing	45	BB	R2
9	Switch	45	BB	R2
UNIT -3 (MEDIA ACCESS & INTERNETWORKING)				
1	Media access control	45	BB	R1
2	Ethernet (802.3)	45	BB	R1
3	Wireless LANs	45	BB	R1
4	802.11	45	BB	R1
5	Bluetooth	45	BB	R1
6	Switching and bridging	45	BB	R1
7	Switching	45	BB	R1
8	Basic Internetworking (IP, CIDR, ARP,)	45	BB	R3
9	DHCP,ICMP	45	BB	R3
UNIT -4 (TRANSPORT LAYER)				
1	Overview of Transport layer	45	BB	R1
2	UDP	45	BB	R1

3	Reliable byte stream (TCP)	45	BB	R1
4	Connection management	45	BB	R1
5	Flow control	45	BB	R1
6	Retransmission	45	BB	R1
7	TCP Congestion control	45	BB	R1
8	Congestion avoidance (DECbit, RED)	45	BB	R1
UNIT -5 (APPLICATION LAYER)				
1	Traditional applications	45	BB	R1
2	Electronic Mail	45	BB	R1
3	HTTP	45	BB	R1
4	Web Services	45	BB	R1
5	DNS	45	BB	R1
6	SNMP	45	BB	R1
7	(SMTP, POP3, IMAP, MIME)	45	BB	R1