Lecture Plan

Subject: Computer Networks (CSC15106) [L-T-P = 3-0-0] Class: V Semester B.Tech (Computer Science & Engineering)

Sl. No.	I	Name of the Topics	No. of Lectures
	Overview of Data Communication and Networking:		4
1.	(Network Architecture, OSI Reference Model, TCP/IP Protocol Suite)		
2.	Physical Layer:		
	(Line Configuration, Physical Topology, Signaling, Bit Synchronization,		8
	Multiplexing, Switching, Transmission Media, Bandwidth use, ISDN)		
3.	Data Link Layer:		8
	Logical Link Control Layer	Medium Access Protocol	
	(Framing, Error Detection &	(Addressing, Collision-based Protocols (ALOHA,	
	Correction, Error Control, Flow	CSMA, CSMA/CD), Collision-free Protocols (Bit	
	Control, HDLC Protocol)	Map, Binary Countdown, Adaptive Tree Walk),	
		Binary Exponential Backoff Algorithm, IEEE	
		Project 802.3, 802.4 & 802.5)	
4.	Network Layer		
	(Switching, Routing Algorithms (Shortest Path Routing, Flooding, Distance Vector		
	Routing, Link State Routing, Hierarchical Routing), Congestion Control Algorithms		8
	(Leaky Bucket & Token Leaky Bucket Algorithm), Networking & Internetworking		
	Devices, Protocols (IPv4, ARP, ICMP))		
	Transport Layer		
5.	(TCP, UDP)		6
6.	Network Applications		
	(Client-Server Model, Socket Interface, SMTP, POP/IMAP, DHCP, DNS)		6
		TOTAL	40