KIIT UNIVERSITY Bhubaneswar

LESSON- PLAN

School of Computer Engineering

Academic Session:2019 Semester: 6th

Subject code: IT-3001 Subject Name: Computer Networks

Module no. & Name.	Topics/Coverage	No. of lectures	Lectures serial nos.
Introduction	 Overview of internet Packet and circuit switching Protocol Layering TCP/IP Protocol Suite OSI Model Delay and throughput in Packetswitched Network. 	4	1-4
Application Layer	 Client Server Paradigm Web and HTTP FTP and E-mail DNS P2P Networks: BitTorrent 	6	5-10
Transport Layer	 Introduction Transport Layer services Flow Control in Transport Layer stop-and-wait Go-back-N Selective-Repeat UDP Services Applications TCP Services Features Segment TCP Connection State Transition Diagram Windows in TCP Flow Control Congestion Control 	14	11-24
Network Layer	 Introduction and services Virtual circuit and datagram networks IPv4 datagram format IPv4 addressing DHCP ICMP NAT Routing Algorithms Link state 	15	25-39

	 Distance vector Hierarchical routing Routing in Internet RIP OSPF BGP 		
Link-layer	 Introduction and services Error detection and correction techniques Multiple access protocols Link-Layer Addressing ARP Ethernet Frame format GIGABIT Ethernet Link Layer Switching & VLANs 	9	40-48

Text Book:

1. COMPUTER NETWORKS: A Top-Down Approach by Behrouz A Forouzan, Firouz Mosharraf

Reference Book:

- Computer Networks 5th edition by Tannenbaum
 Computer networks An Open source approach by Ying-Dar Lin
- 3. Computer Networks A systems approach by Peterson and Daive
- 4. A top-down approach by Kurose and Ross

Signature