Sub Code + 15 IT14401
Sub Name + Data Communication and Computer
Networks

Objective :

* To study the fundamental principles architectures and techniques employed in computer

* To study the concepts of communication networks, protocols and their performance.

* To design basic network system

Unit - I Introduction to computer Networks

Intro to computer retworks - Reference models - Iso Open System Integration (OSI)
model - TCP/IP protocol Suit - Evaluation
of Internet - Brief History of Internet today

Unit-II Physical Layer

Transmission media - Guided and Organided media, Twisted pair cable (STP and UTP), Co-caral cable, Fibre Obtic cable (FOC), Urquided Media -

Radio waves, IR waves, microwaves links. Switching: Circuit switching. packet switching Unit -3 Data link layer Data link layer design issues a traming Ennon control, Flow control, Error detection and consection, Data link protocol: Stop and Wout Protocol, Sliding Window Protocol: Co-back N, selective repeat. Unit-4 Medium Acress Sup layer and Network Layer. traditional ethernet (concept of CSMA (CD), Fast ethernet, Grigbyte ethernet, IEE 802.4 (TB), 802.5 (TR) token bis token sing 802.11 (MILAN) - Bridges and Swidges Network layer concepts and Routing algorithms: IPvb, IPv4, Address mapping, ICMP - DVR Carstance Vecto

LSR (Link state Routing)

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Multi case Routing, CTDR, Coaseler Inter Domain Routing) Unit - 5 Transport layer and Application Layer. Transport layer: User Dalagram Protocod, (UDP), Transmission Control Proticol (TCP), Conjession Control (CC), Quality of services (QOS) Application Layer Domain Name Spole CDNSI, Email, FTP C File Transfer Protocoly World Wide Web (WWW), SNMP, HTTP (Myper Text Transfer Protocol). Text Book: BA. Faxouxan " Data Communi cation and Networking