



ARUNAI ENGINEERING COLLEGE

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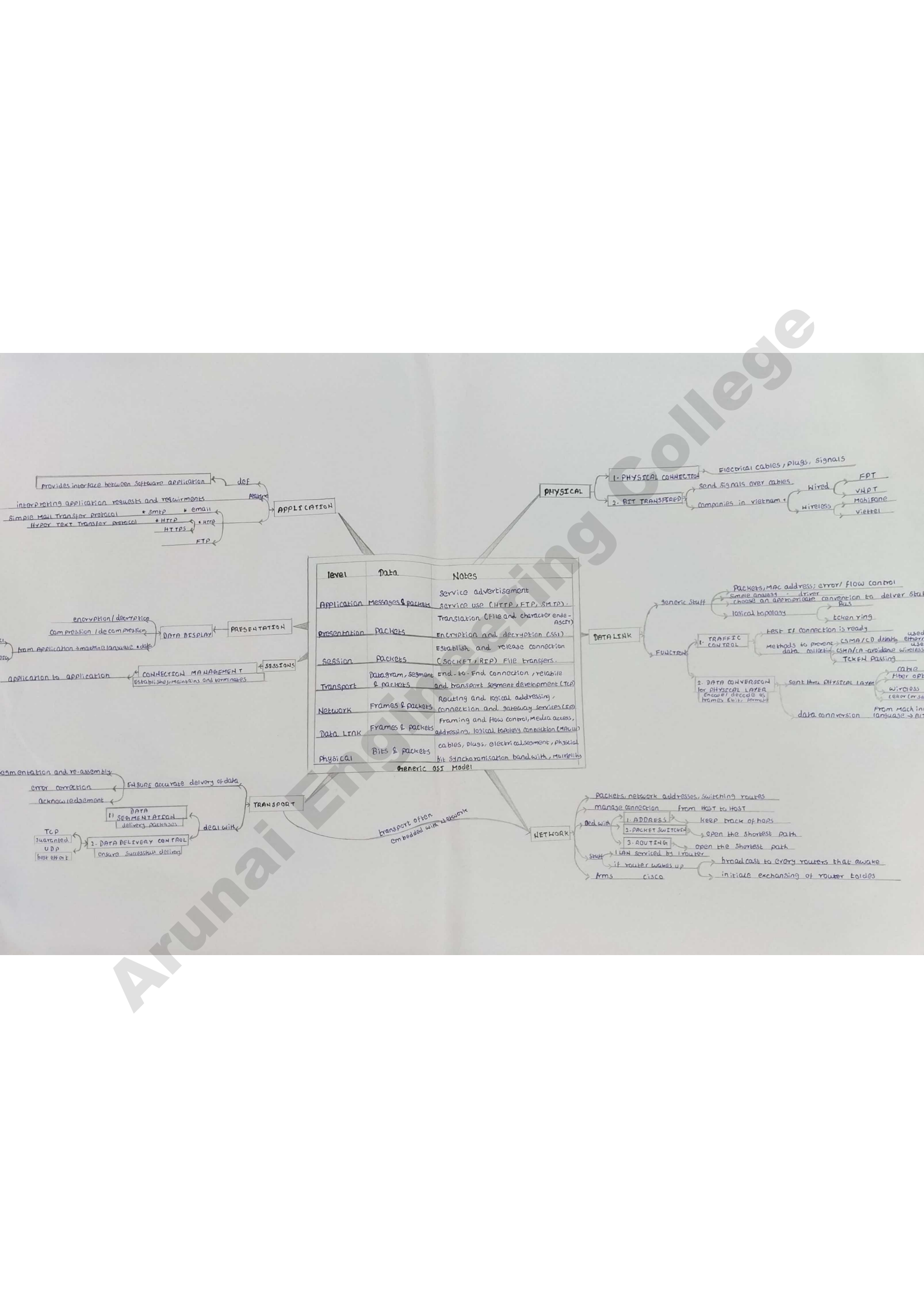


DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CS8591-COMPUTER NETWORKS

MIND MAP





Display Routing Table from cmd prompt

- Routes of Directly connected Nodes 1. Directly Attached
- Routes to External Networks ie. LAN's or Subnets not directly 2. Remote Network Routes.
- Route to a Specific IP 3. Host Routes
- This will be the Def 0.0.0.0 4. Default Route

4 Types of routes can be defined

ROUTE PRINT

Broadcasts Routing Table

use only for small networks (because of all the best traffic)

RIP V1 & V2

open shortest path first (OSPF)

Transmit Routing Information to other Routers

For large networks use a HARDWARE Router

server 2008 is a SOFTWARE Router

STATIC Routes

RIP V2

IGMP

DHCP RELAY

server 2008 Routing Protocols

route add 10.0.0.1 mask 255.0.0.0 192.168.1.83

route add IP Address mask subnet mask default gateway

To add a route

route delete 10.0.0.1

Delete a route

route change 10.0.0.1 mask 255.255.0.0 10.27.0.25

change a route

Multi-port Repeater

HUB

LAYER 1 - "PHYSICAL" 1's & 0's
Transmits to ALL PORTS
Doesn't ROUTE packets just REPEATS

ROUTER

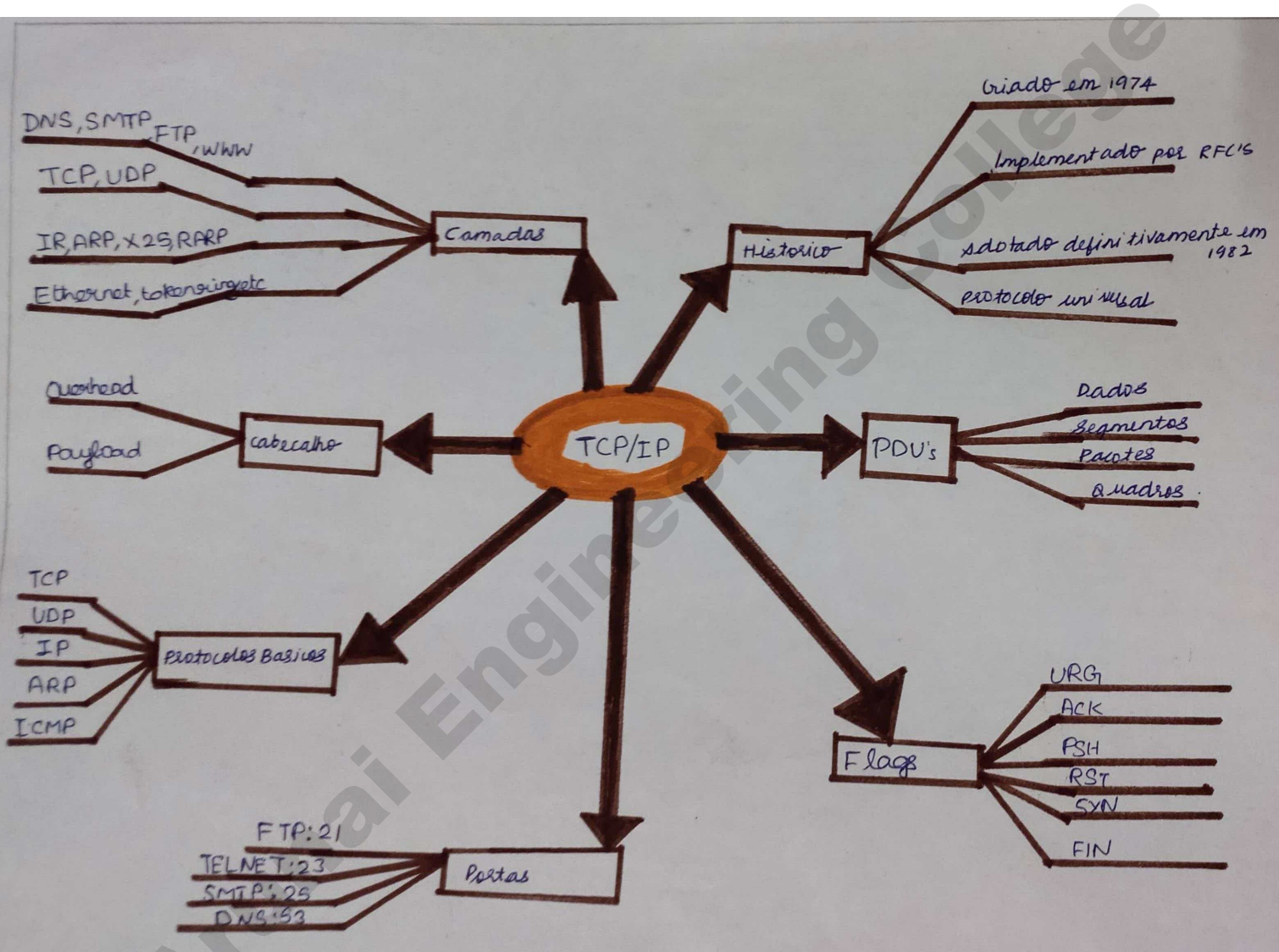
Layer 3 Layer 3 switch
PACKETS
Distributes using: IP Address
Joins to separate Networks, LANs or Segments

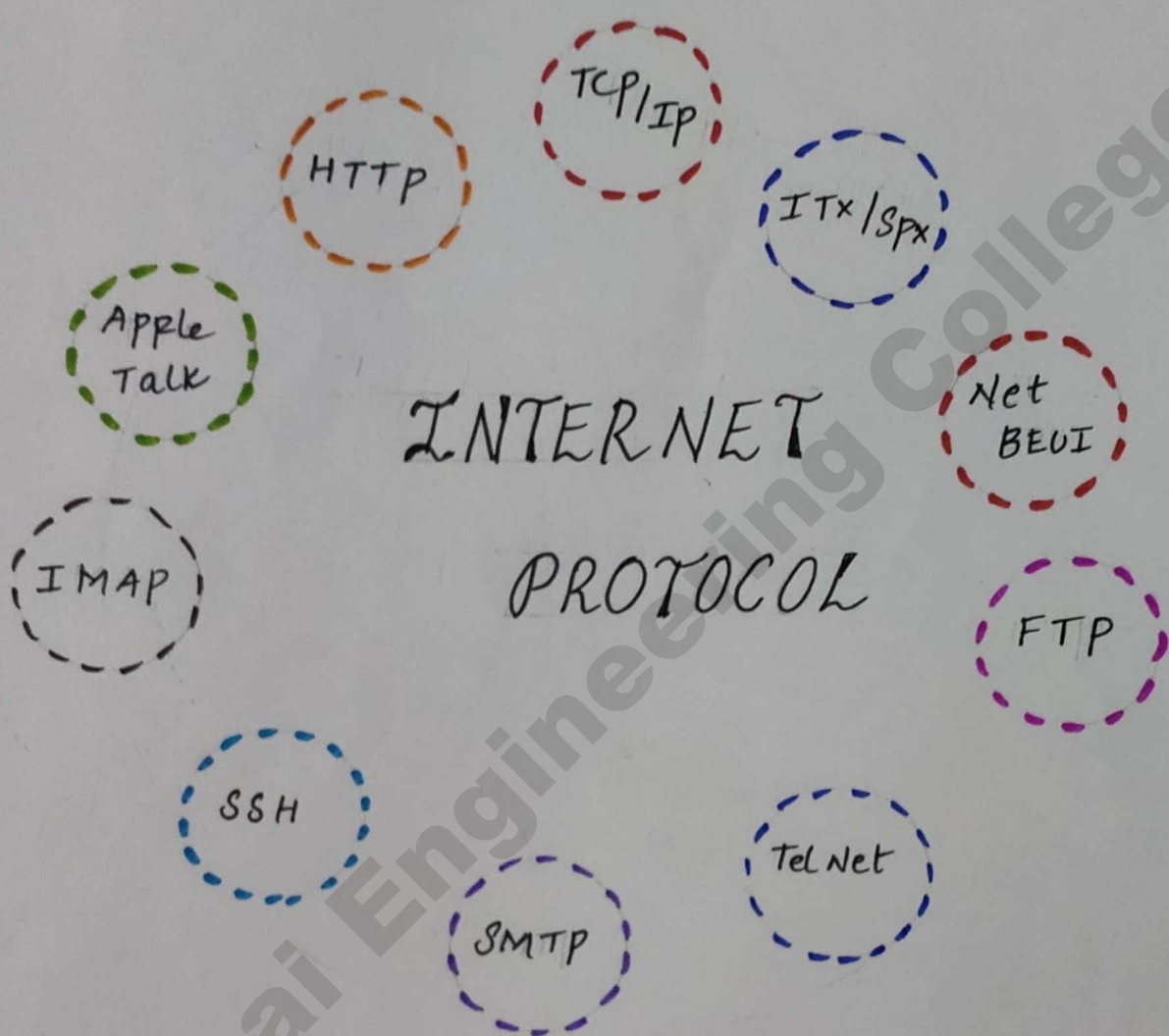
SWITCH

Layer 2
FRAMES
Distributes based on: MAC ADDRESS

ROUTING

ROUTING PROTOCOLS





INTERNET PROTOCOL

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