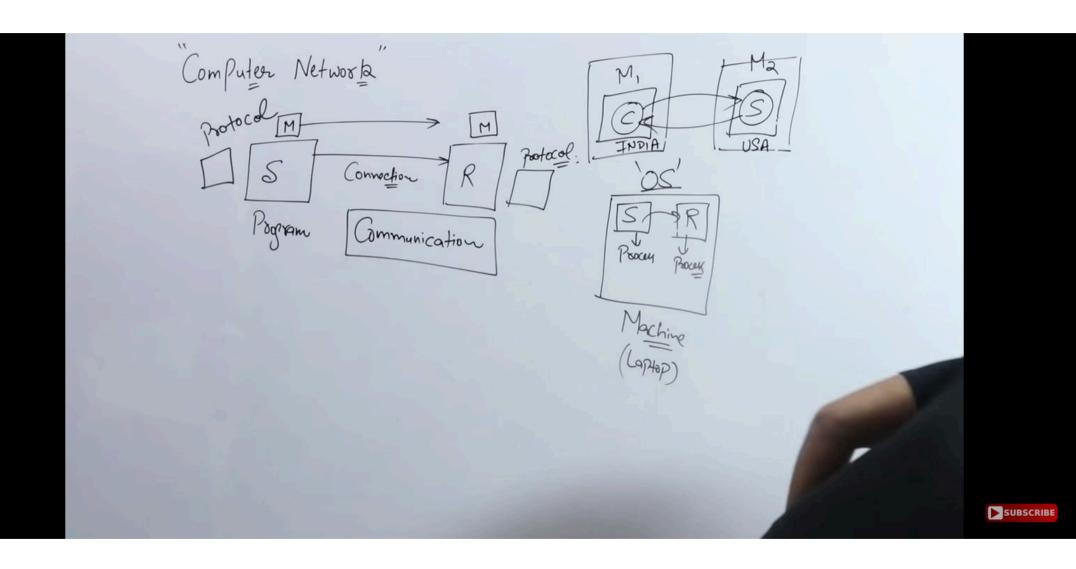
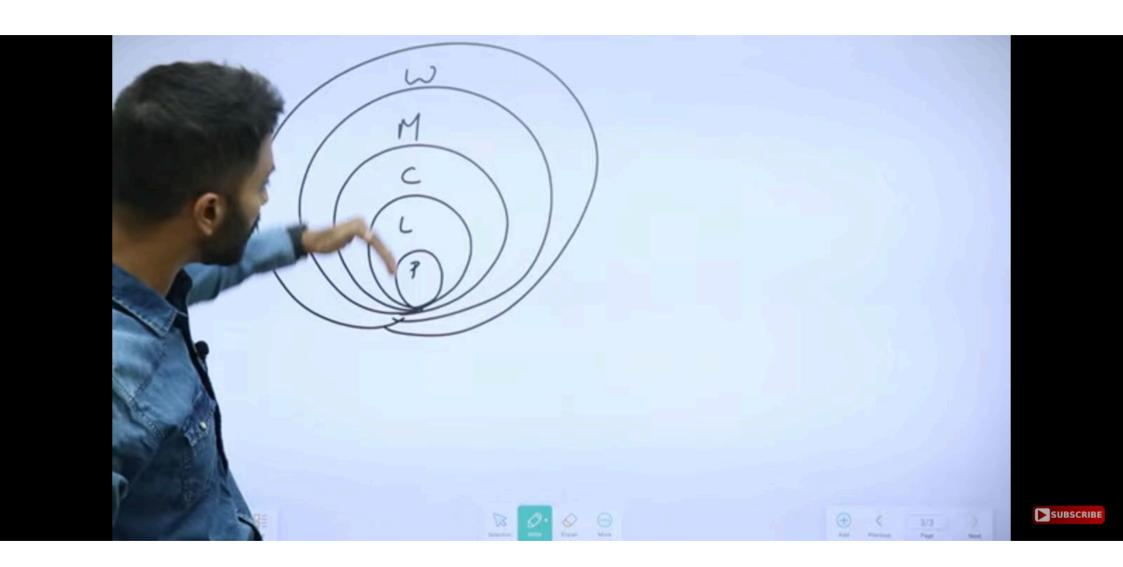
UGC NET Computer Netwoods Syllabus

- Physical layer- Cables, Topology, Transmission modes, Encoding, LAN Devices, Modulation
- Data links -> Stops Wait, Goo Backs and Selective Repeat, MAC Protocols, Switching
 Eron Control, Ethornet frame format
- Networks IP addressing, Routing Protocols, IPV4 Hooder, IPV6 Hooder Transport - TCP, UDP, Headers
- Session 6) Presentation
 - Application 8) Networks Sacurity







PAN	LAN	CAN	MAN	WAN
Personnel Area Network	Local Area Network	Campus Area Network	Metropolitan Area Network	Wide Area Network
Bluetooth, IrDA, Zigbee	Ethernet and Wi-Fi	Ethernet	FDDI, CDDI, ATM	Leased Line, Dial-Up
1-100 Meter	Up to 2 KM	1-5 KM	5-50 KM	Above 50 KM
Very High	Very High	High	Average	Low
Within a Room	Within office, building	Within University, Corporate offices	Within City like Mumbai	Within Countries
Private	Private	Private	Private or Public	Private or Public
Very Easy	Easy	Moderate	Difficult	Very difficult
Very Low	Low	Moderate	High	Very High
	Personnel Area Network Bluetooth, IrDA, Zigbee 1-100 Meter Very High Within a Room Private Very Easy	Personnel Area Network Bluetooth, IrDA, Zigbee 1-100 Meter Very High Within a Room Within office, building Private Very Easy Local Area Network Local Area Network Withere and Wi-Fi Up to 2 KM Very High Very High Very High Easy	Personnel Area Network Bluetooth, IrDA, Zigbee 1-100 Meter Very High Within a Room Within office, building Private Very Easy Local Area Network Campus Area Network Ethernet High Wither Up to 2 KM Very High High Within University, Corporate offices Moderate	Personnel Area Network Local Area Network Retwork Retwork Retwork Retwork Retwork Retwork Retwork Retwork Retwork Reta Network Retwork Retwork Retwork Retwork Retwork Retwork Retwork Retwork Retwork FDDI, CDDI, ATM S-50 KM Very High Very High High Average Within a Room Within office, building Within University, Corporate offices Within City like Mumbai Private Private Private or Public Very Easy Metropolitan Area Network Retwork FDDI, CDDI, ATM FDDI, CDDI, ATM FIVATE FOOT ATM Private or Public Private or Public Very Easy Moderate Difficult













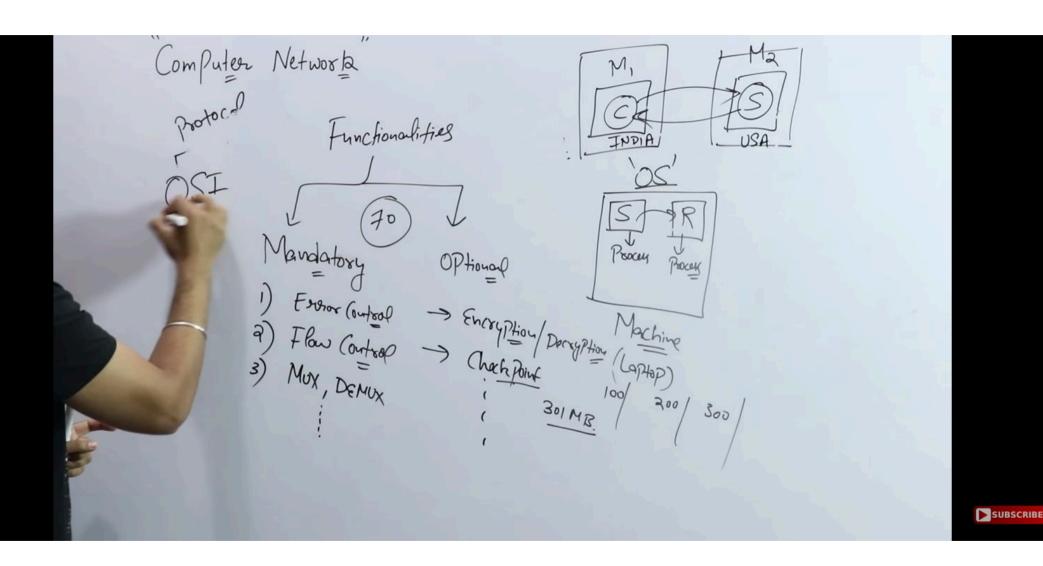


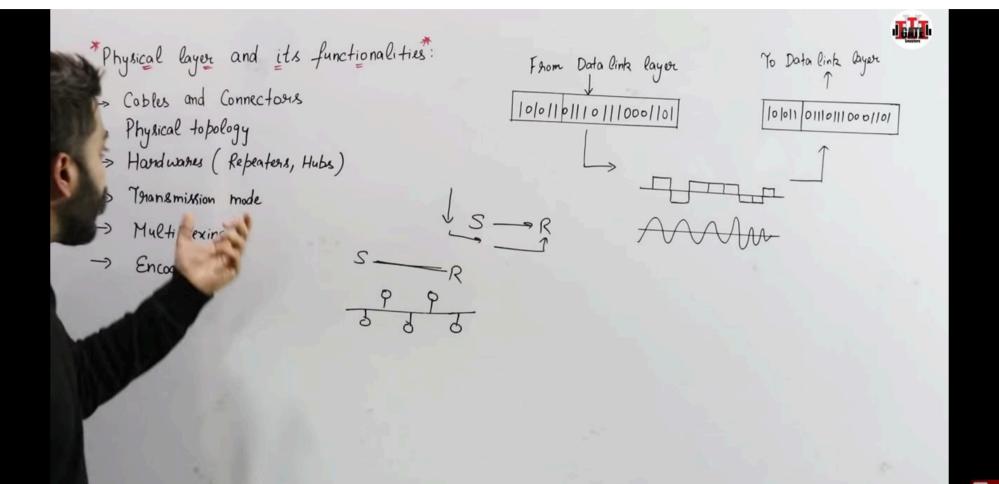


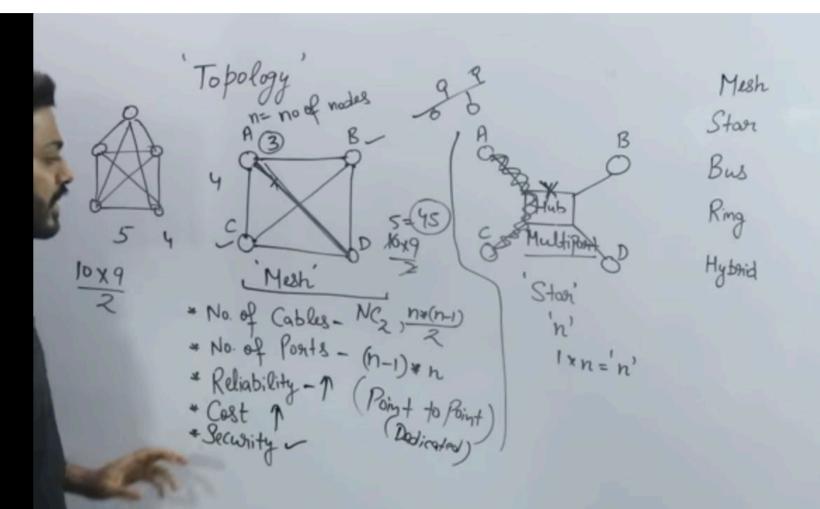
TCP/IP Protocol Application Layer OR Application Application Internet Priotocal Prosentation Layer Layer Layer Developed by ARPANET Session Layes apposit client-Somer Teranspost layer Host to Host Transport Layer Transport layer and Peen to Peen Internet Layer Source to Destination Netwoods Layer Network Layer Data Link Layer Data Link Layer Network Node to Node Access Physical Layen Physical layer Layen OSI 5-layor TCP/EP 4 layer



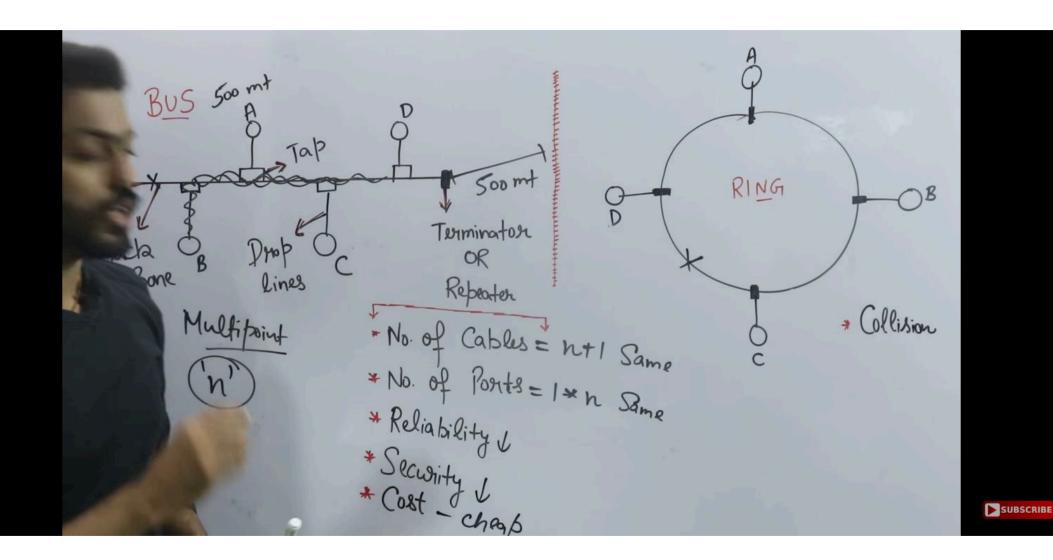
Process to Process

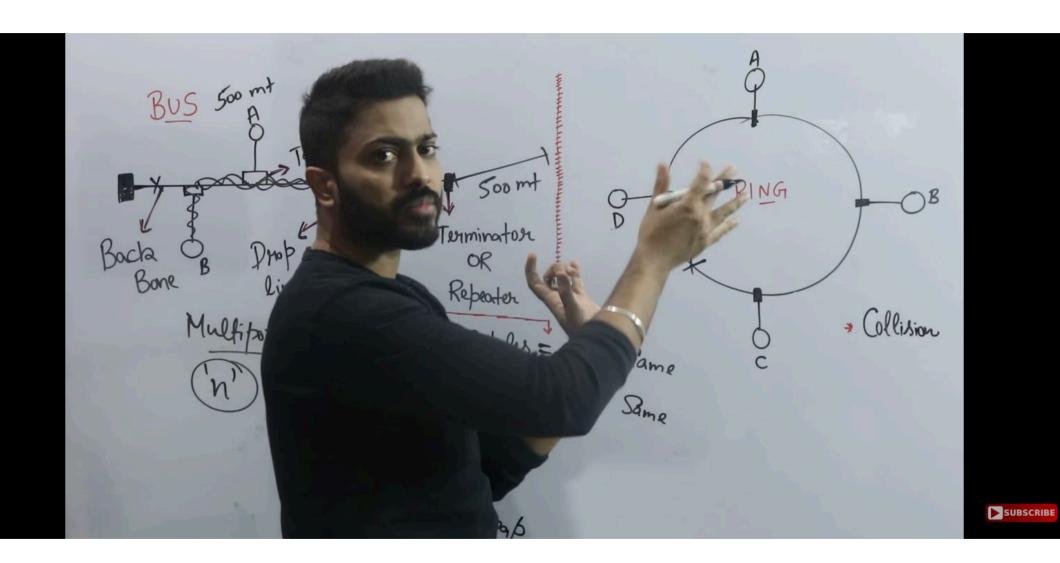


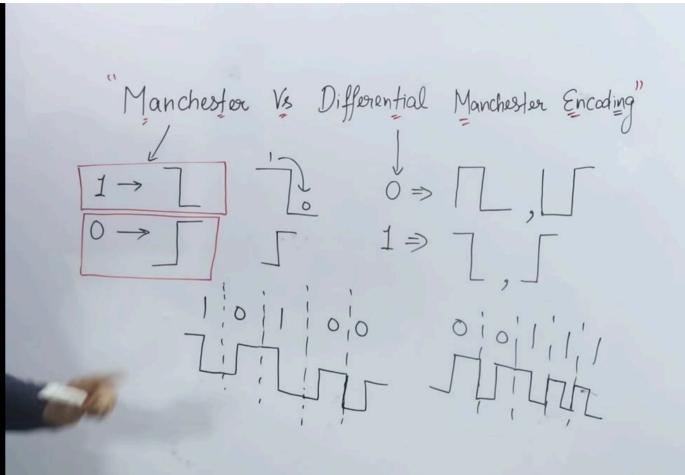




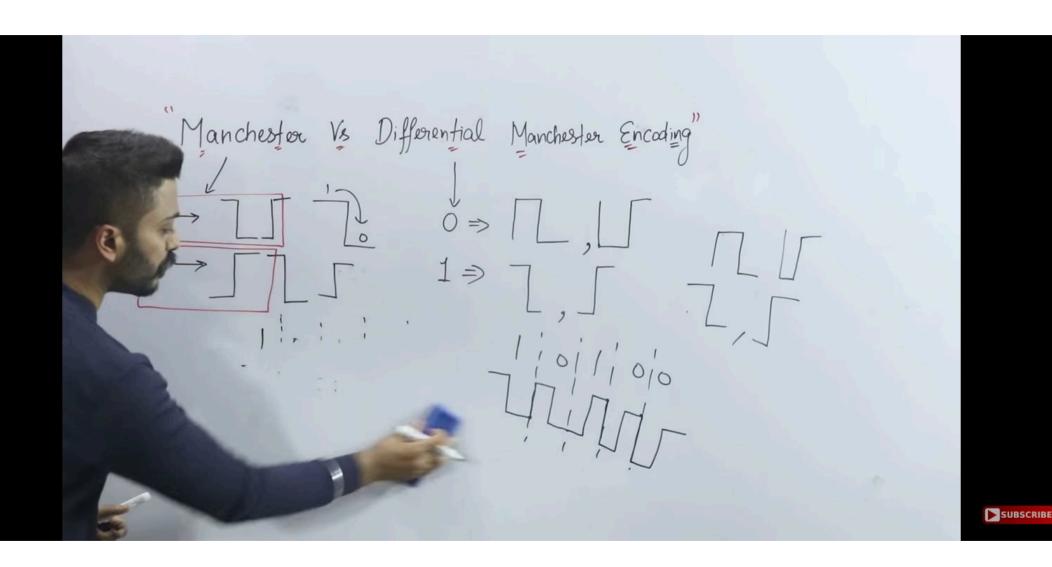










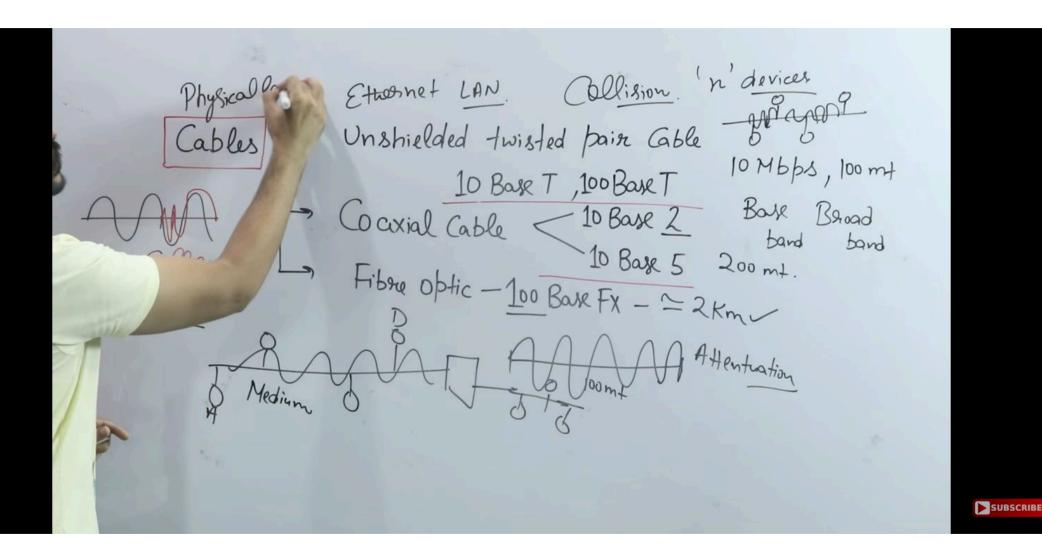


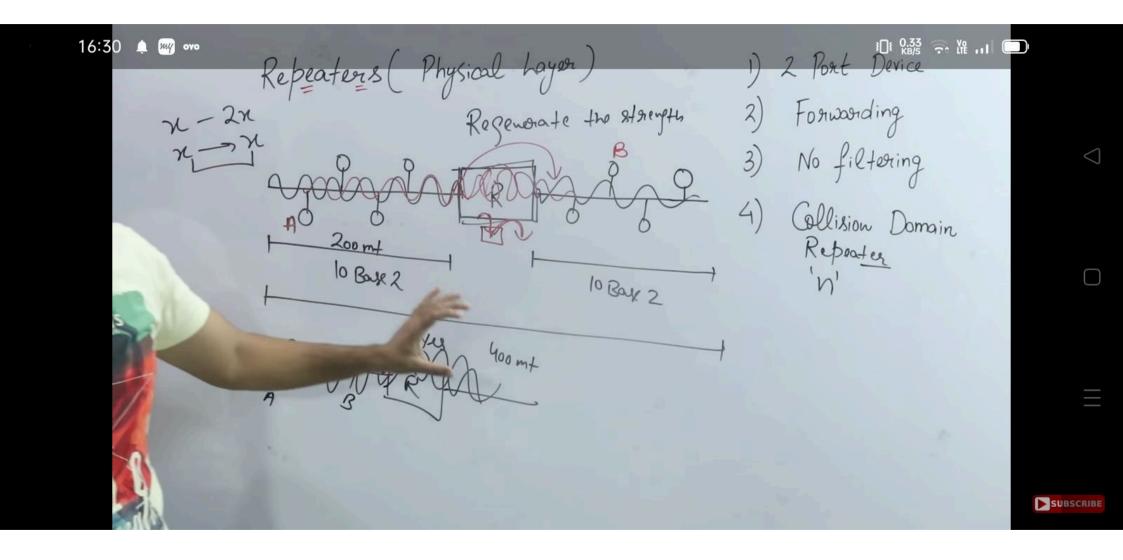
Various Devices in Computer Netwoods Cables 7) Grateway

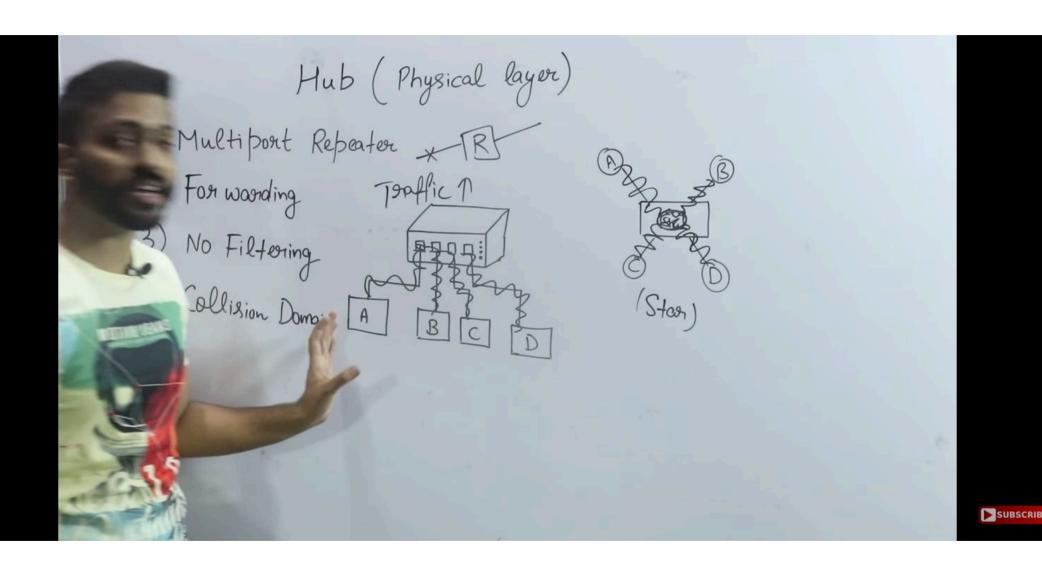
Beatons 8) IDS - Security

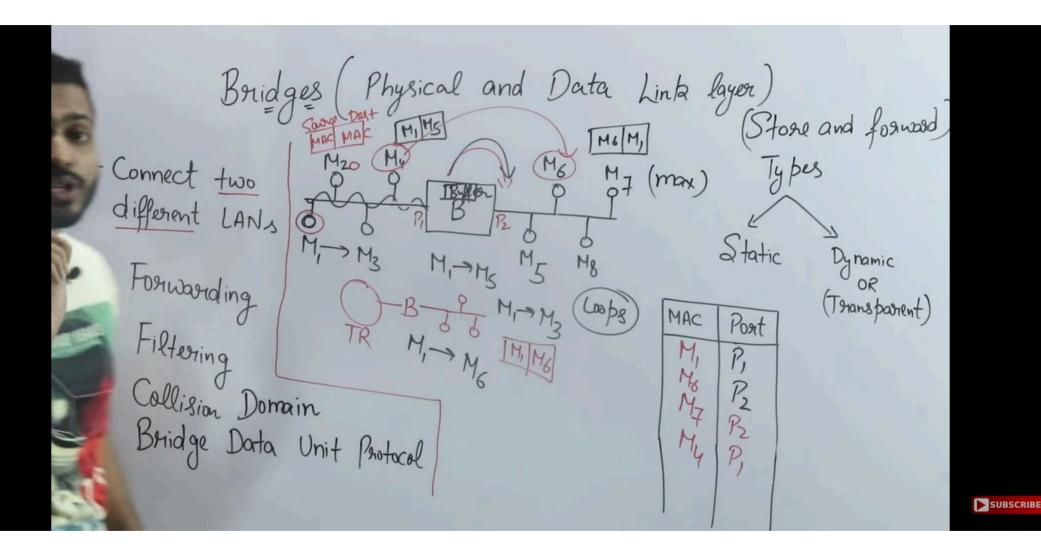
Hubs 9) Finewall Bridges 10)
Switches - 4/w
Routers 5/w Modern

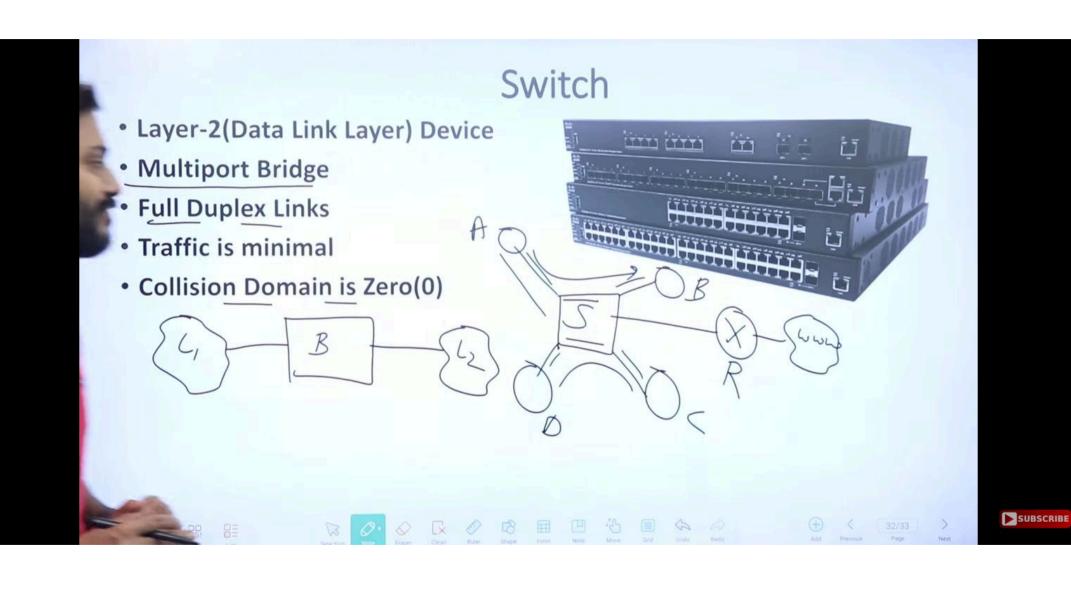


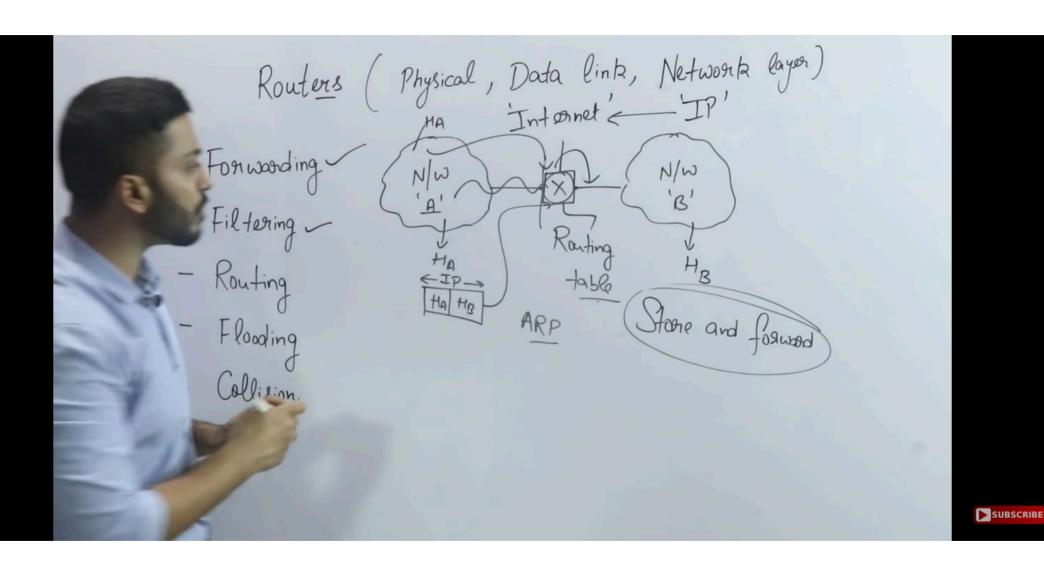






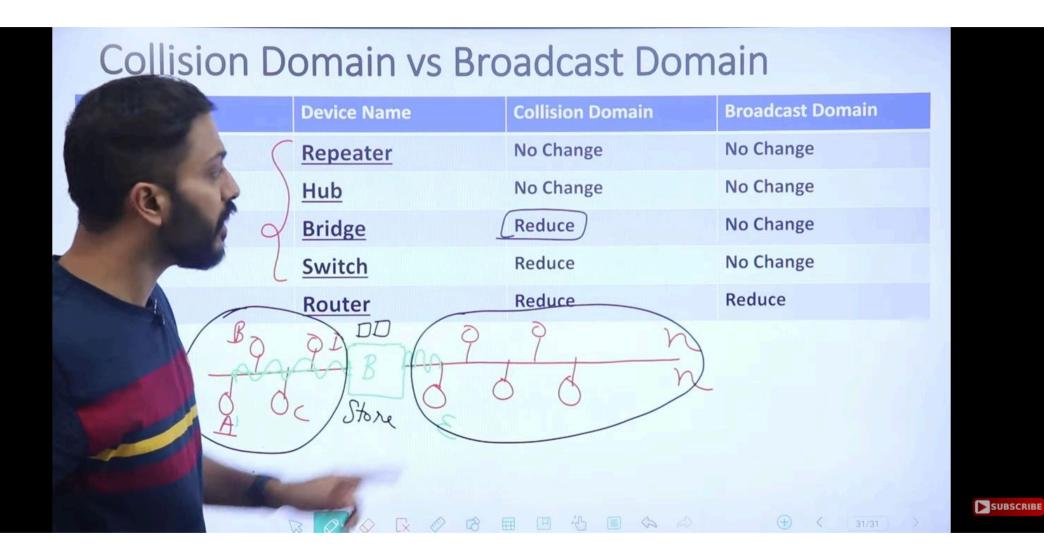


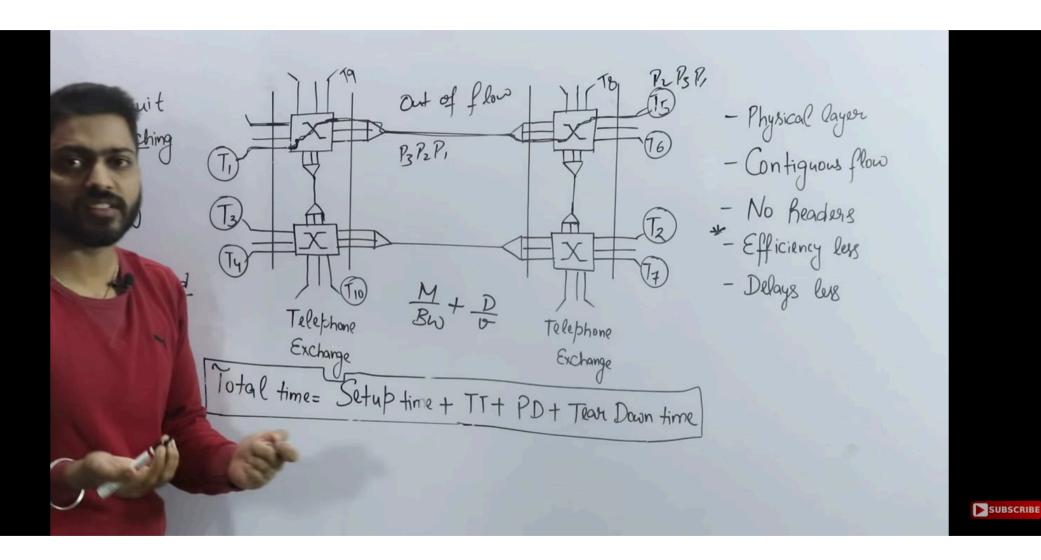


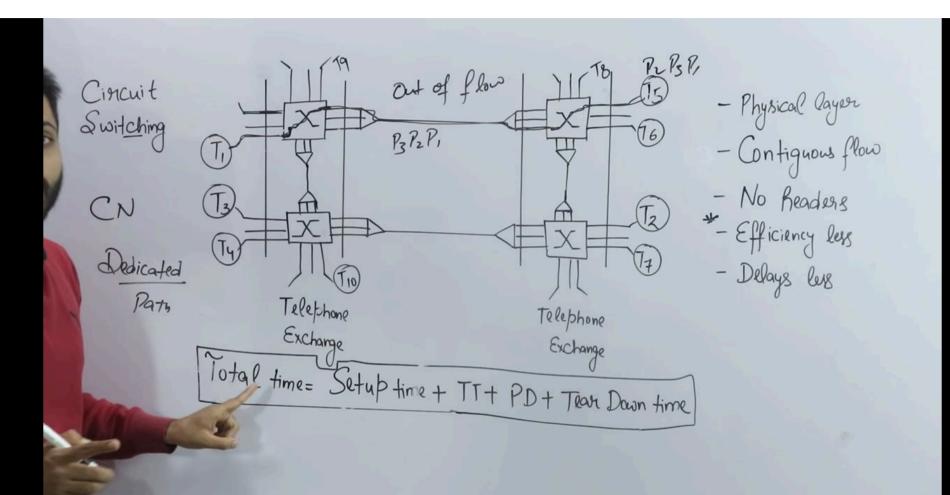


Collision Domain vs Broadcast Domain

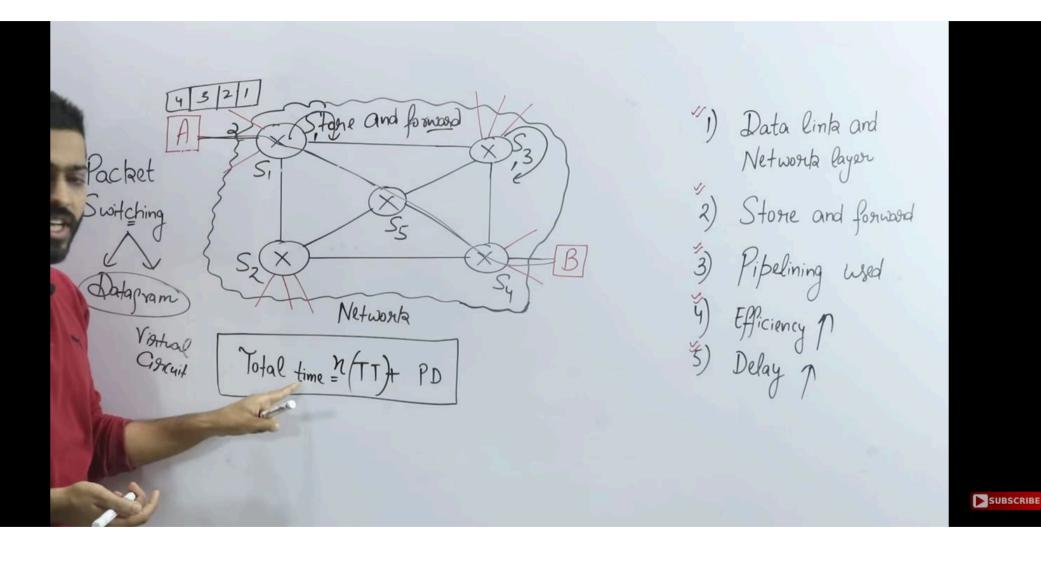
	Device Name	Collision Domain	Broadcast Domain
	Repeater	No Change	No Change
91	<u>Hub</u>	No Change	No Change
A A	<u>Bridge</u>	Reduce	No Change
	Switch	Reduce	No Change
	Router	Reduce	Reduce
B o d	PT d d	n n	
			+ < 31/31

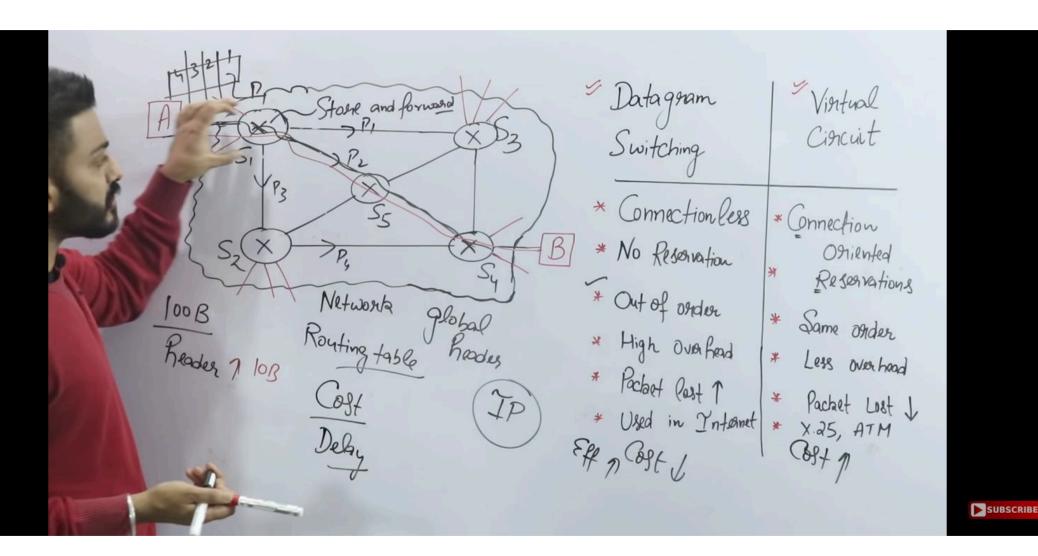


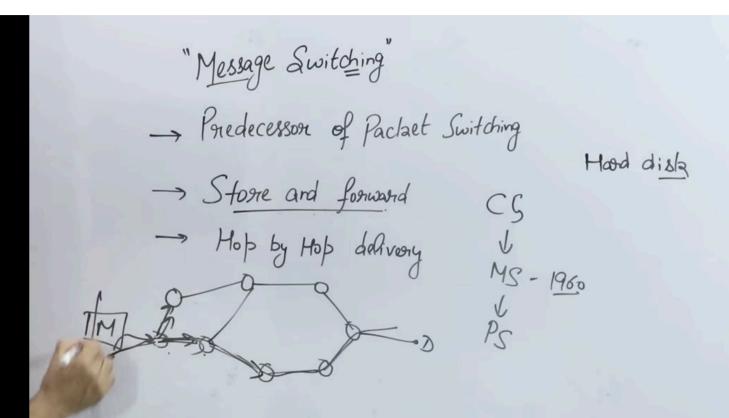




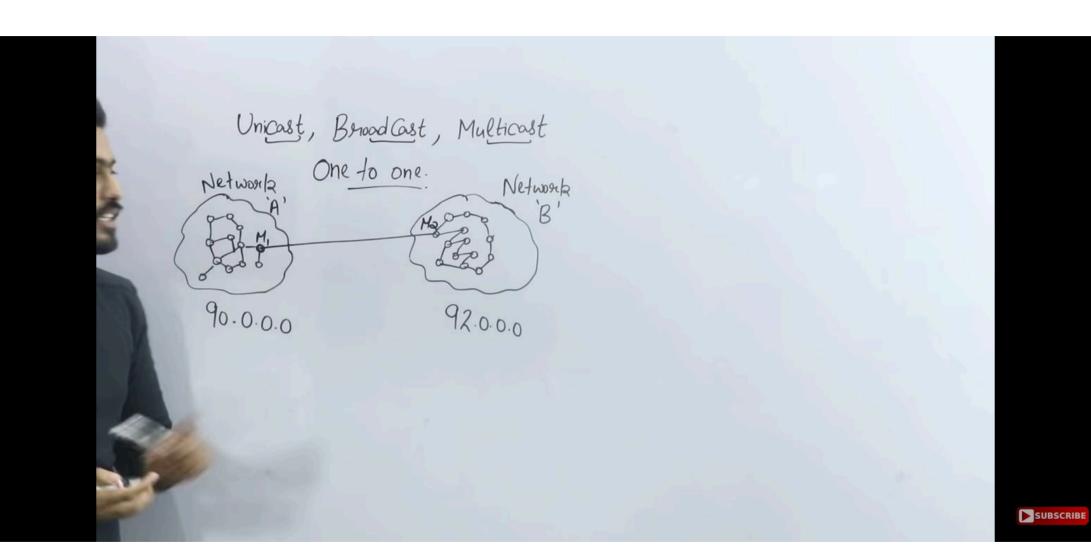


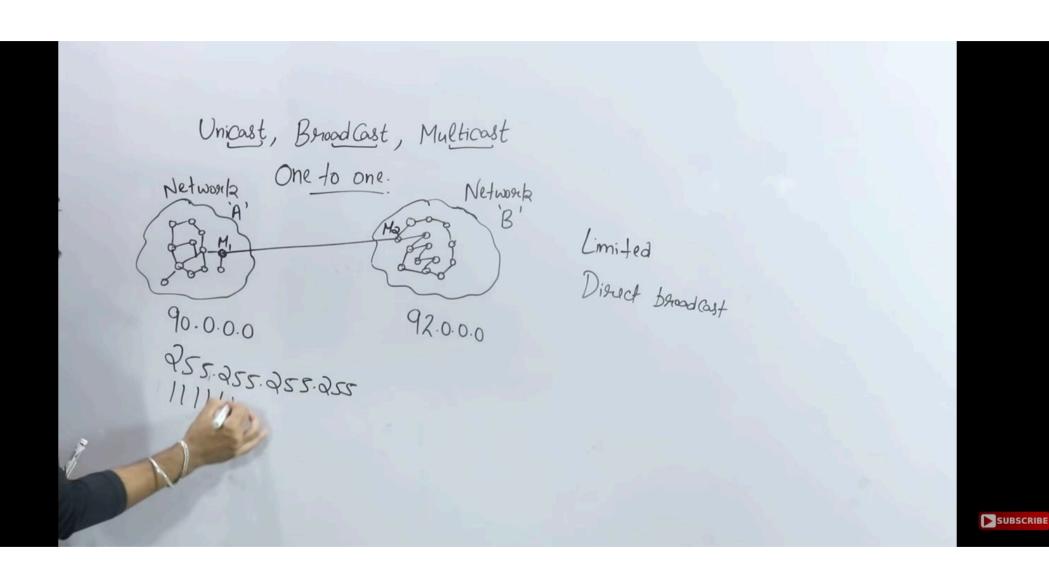




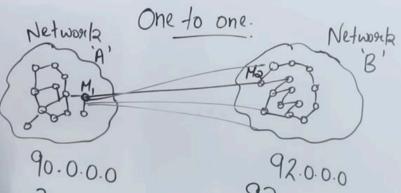








Unicast, Broad Cast, Multicast



Limited
Direct Broadcast