



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING-IOT Including CS&BCT

COURSE NAME: 19SB402- NETWORKING AND CYBERSECURITY

II YEAR / III SEMESTER

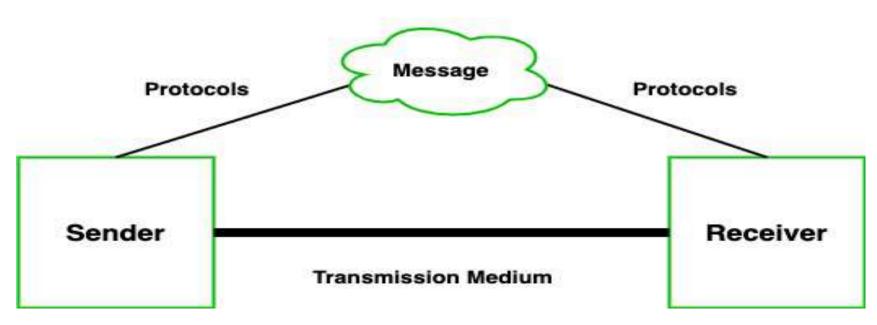
Unit I- **NETWORK AND OSI LAYER**

Topic: Theoretical Basis of Data Communication





- > It is defined as a Process.
- ➤ More then one computer transfers Information, instructions to each other and for Sharing resources.







Components of Data Communication:

- 1. Message:
 - Data (or) Piece of information.
 - Transmitted from one person to another.
 - Text file, Audio, video, etc.
- 2. Sender:
 - It is a device.
 - Send data.
 - Device -> computer, mobile, tab, laptop, etc.,.
- 3. Receiver:
 - It is also a device.
 - Receive data.





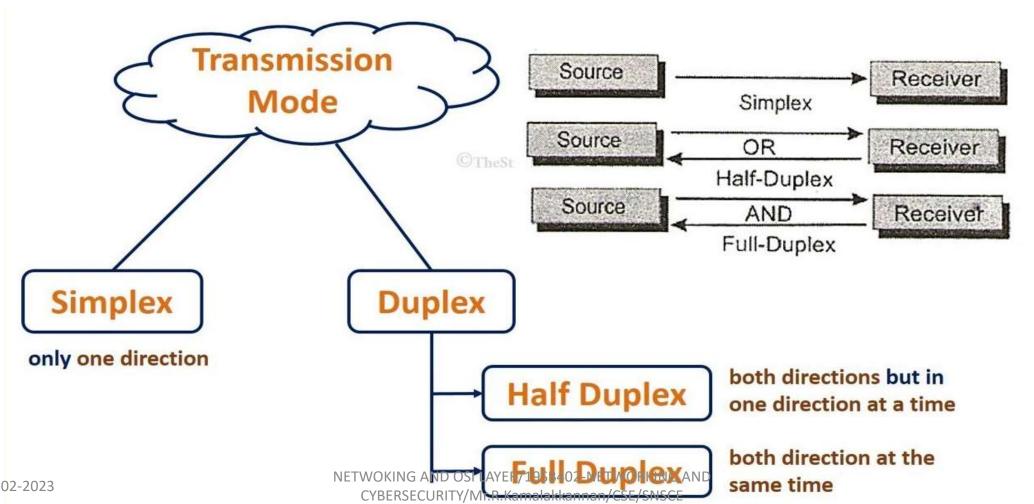
4. Transmission Medium:

- It Connect two (or) more devices (or) workstation.
- May be wired (or) wireless.
- 5. Set is Rules (protocol):
 - Some one sends the data. It should be understandable to receiver.
 - Computer network follows set of rules.
- 6. TCP (Transmission Control Protocol):
 - Responsible for dividing Msg into packets (sender side).
 - Reassembling the received packet at the destination (Receiver side).
- 7. IP (Internet Protocol):
 - It describe the exact destination.
 - So packets is sent tonits/properdestination 2-NETWORKING AND CYBERSECURITY/Mr.R.Kamalakkannan/CSE/SNSCE





Type of Communication:







Communication Channel:

- ➤ It Connect two (or) more workstations.
 - Guided Media -> Wire.
 - 2. Unguided Media -> Wireless.





Any Queries





Thank You!