

# Fundamentals of Computer Networks (CST 131-2)

Introduction

By

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# Key Points

- **Evaluation Criteria**
  - **Continuous Assessment - 40%**
    - pop quiz -01 (3<sup>rd</sup> Week)
    - Assignment – 01 (05<sup>th</sup> Week)
    - pop quiz -02 (7<sup>th</sup> Week)
  - **End Semester Examination**

An orange starburst graphic with a blue outline, containing the text "No Tentative Dates" in white.

**No  
Tentative  
Dates**

**80%**

**ATTENDANCE**

**is a MUST**

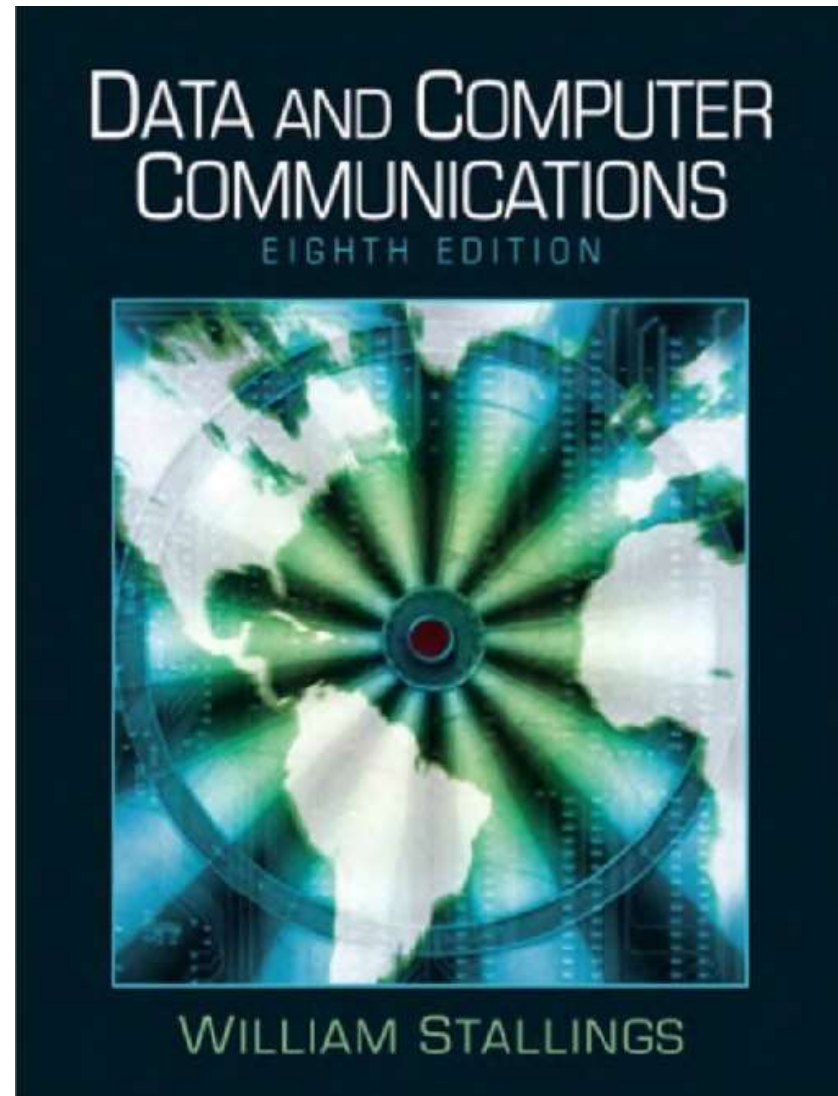
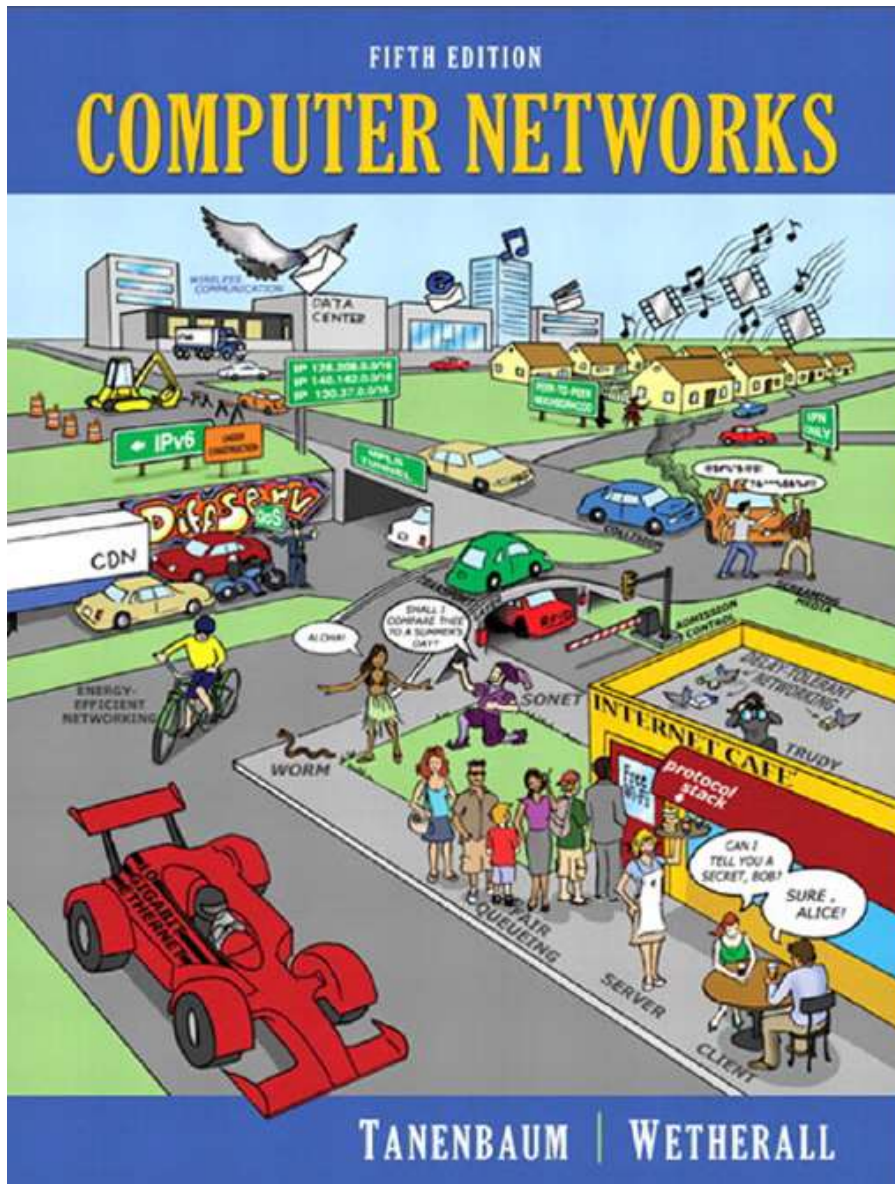
# During the Lectures



# In This Course Unit You Will Learn

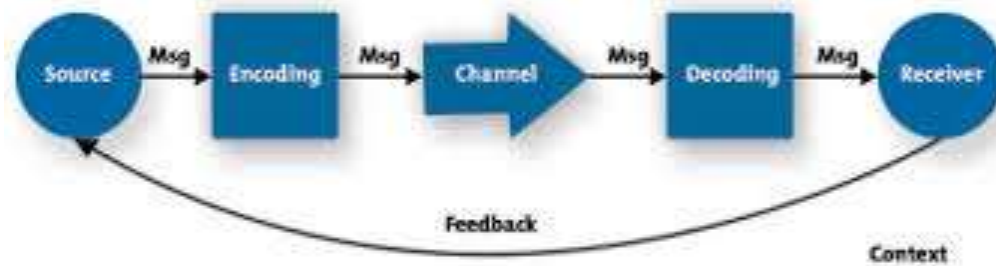
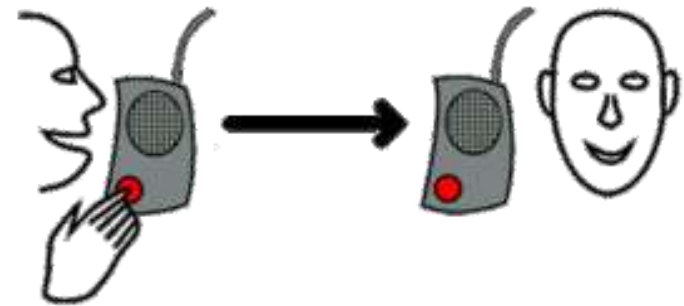
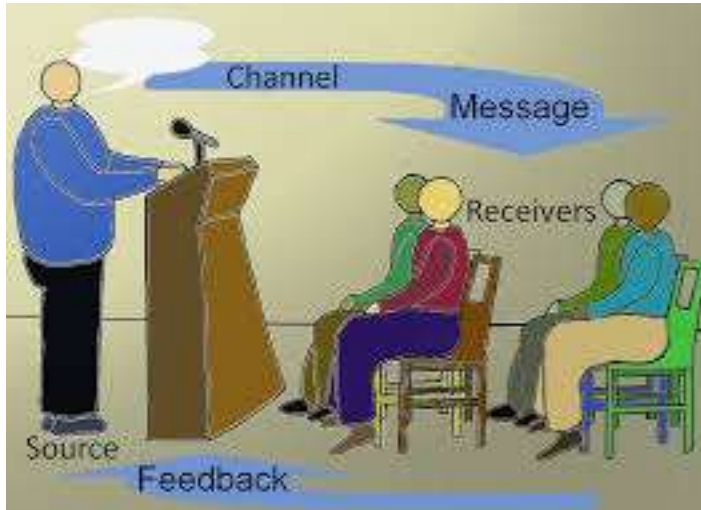
<b>Overview of Communication &amp; Networks</b>
<b>Principles of Computer Networks &amp; different types</b>
<b>Data Communication Fundamentals</b>
<b>Transmission Media and Media Characteristics</b>
<b>Different Networks (LAN, WAN)</b>
<b>ISO-OSI Reference Model</b>
<b>IP Addressing</b>
<b>Overview of TCP/IP Protocol Architecture</b>
<b>Client Server Architecture</b>
<b>Internet</b>
<b>Network Devices and Internetworking</b>

# Recommended Text Books





# Communication



# Communication Cont..

- **Communication** is the act of conveying intended meanings from one entity or group to another through the use of mutually understood signs and semiotic rules.



# A Communication Model

- The fundamental purpose of a communications system is the exchange of data between two parties.

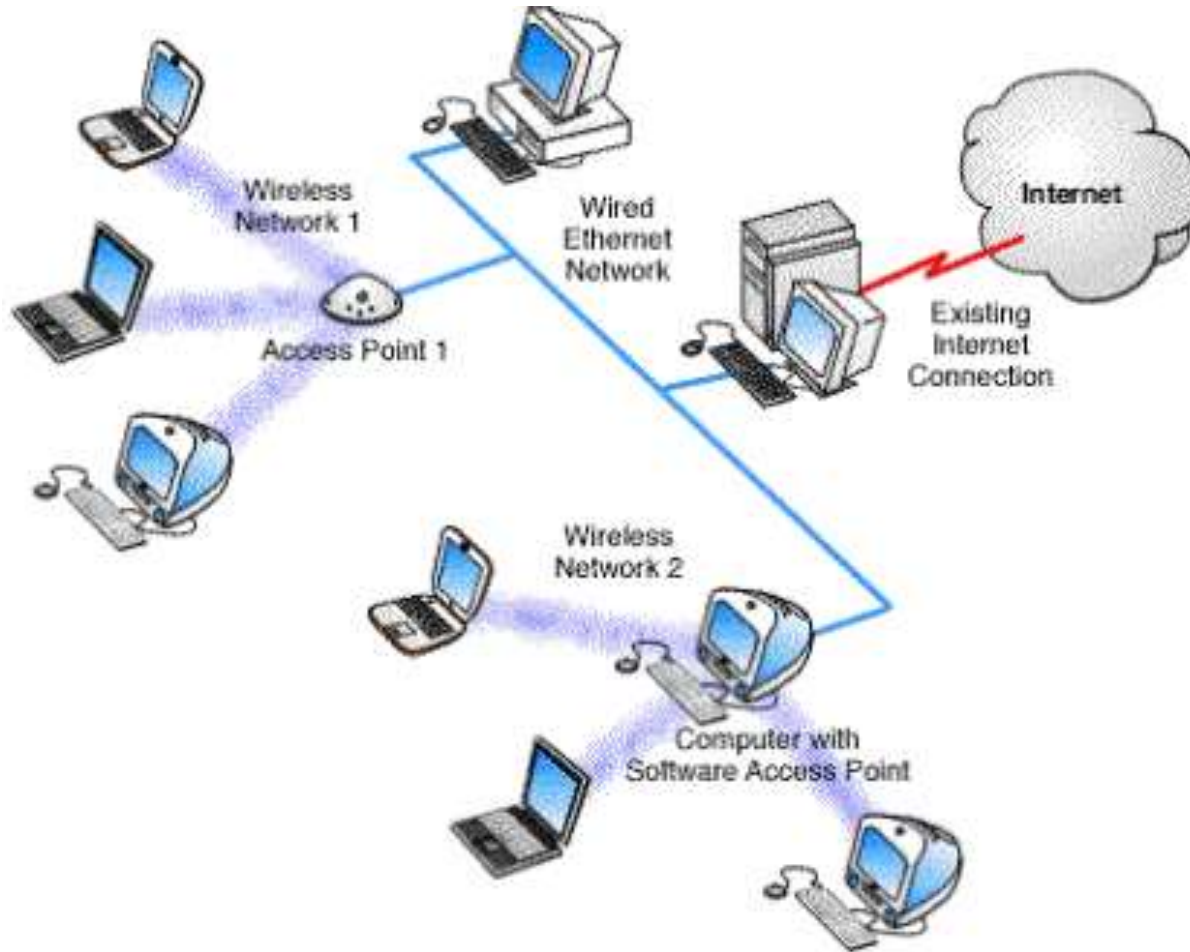
# Networks

**Do You Know Any Real World  
Examples ?**

# Some Examples Include



# Computer Network



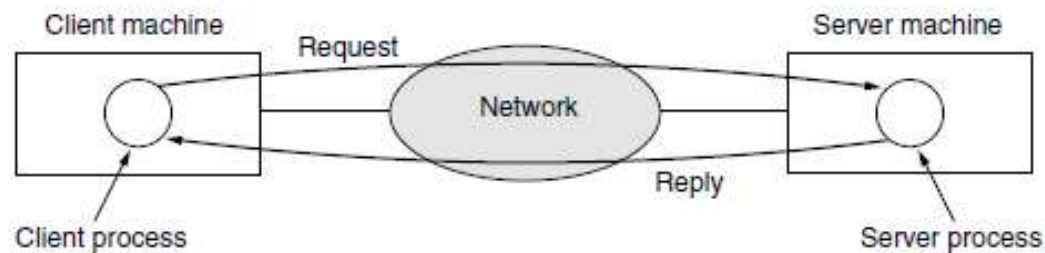
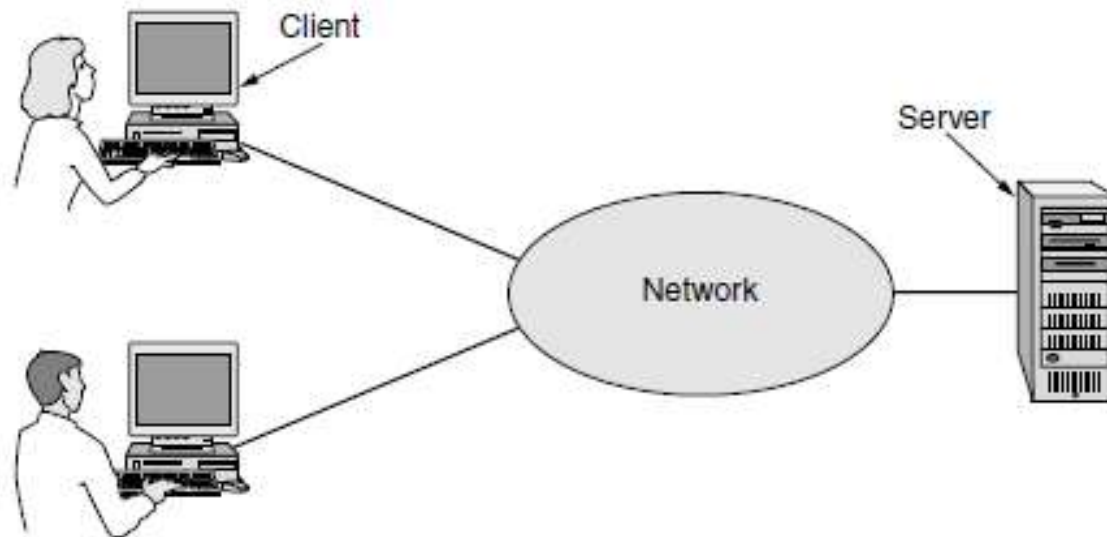
# What is a Computer Network?

- A computer network is a collection of autonomous computers interconnected by a single technology for communication.
- Two computers are said to be interconnected if they are able to exchange information.

# Use of Computer Networks

- Business.
- Home.
- Mobile Users.

# Client – Server Model



The client-server model involves requests and replies.