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Data Communication CS601 Lecture No 1

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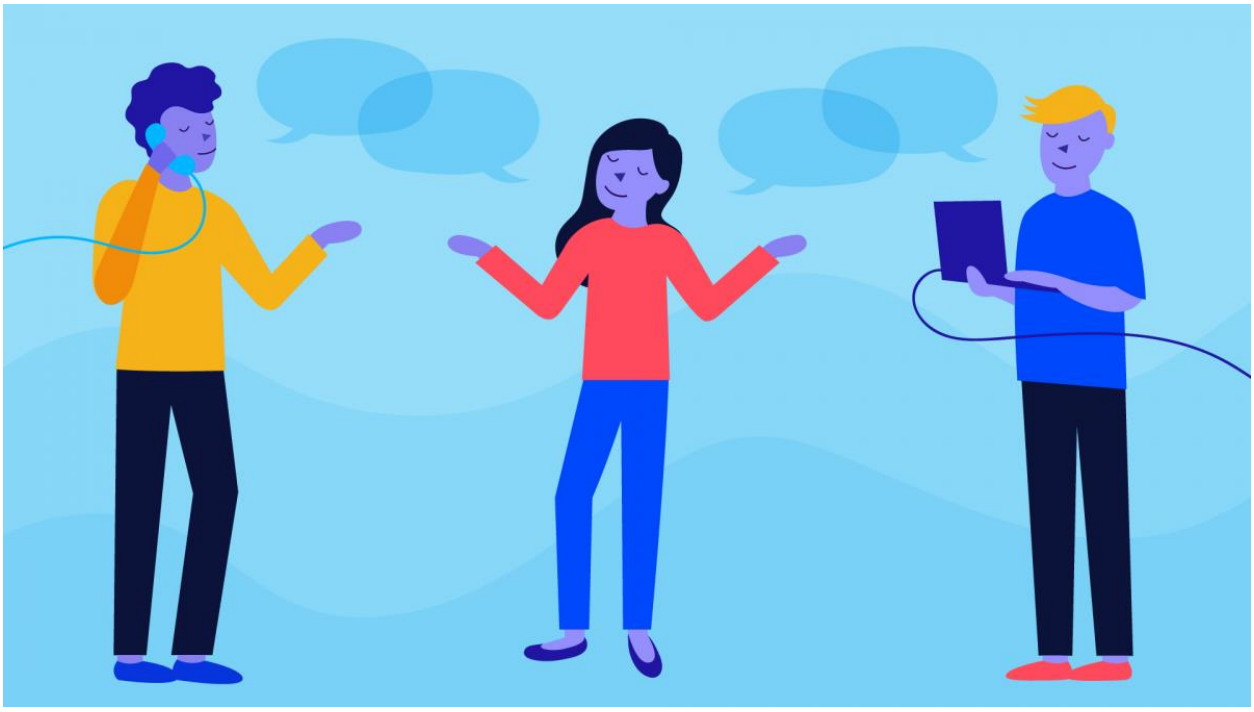
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Communication

A process by which information is exchanged. Communication is simply the act of transferring information from one place, person or group to another.



Telecommunications

Telecommunications are **the means of electronic transmission of information over distances**. The information may be in the form of voice telephone calls, data, text, images, or video. Today, telecommunications are used to organize more or less remote computer systems into telecommunications networks.

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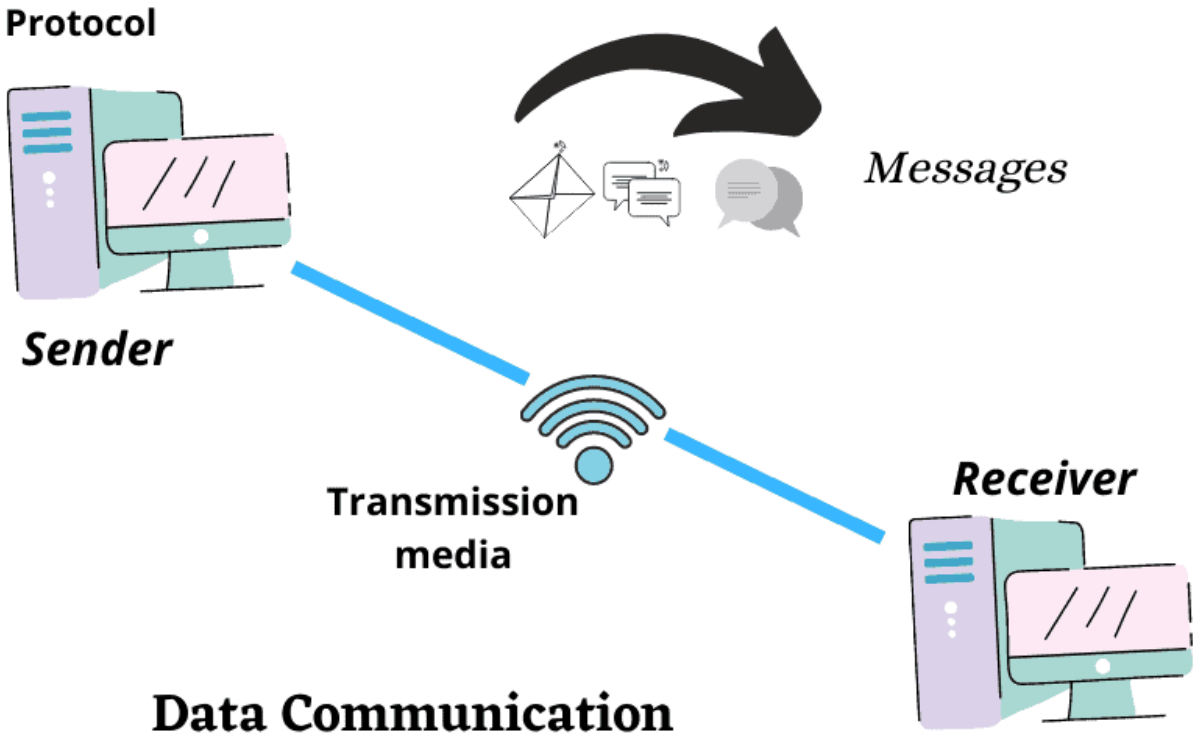
Data communications

Exchange of data between two devices via some form of transmission media. Data communications (DC) is **the process of using computing and communication technologies to transfer data from one place to another, or between participating parties**.

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Characteristics of a Data Communication System

- **Delivery**
- **Accuracy**
- **Timeliness**
- **Jitter**

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- **Delivery** means sending the data to the correct destination.
- **Accuracy** means reception of data with no errors.
- **Timeliness** means delivering/transmitting the data within a time interval.
- **Jitter** refers to the variation in the packet arrival of time.

I. Delivery- The system must deliver data to the correct destination. Data must be received by the intended device or user and only by that device or user.

2. Accuracy- The system must deliver the data accurately. Data that have been altered in transmission and left uncorrected are unusable.

3. Timeliness- The system must deliver data in a timely manner. Data delivered late are useless. In the case of video and audio, timely delivery means delivering data as they are produced, in the same order that they are produced, and without significant delay. This kind of delivery is called real-time transmission.

4. Jitter- Jitter refers to the variation in the packet arrival time. It is the uneven delay in the delivery of audio or video packets.