**Cavendish University Uganda**

**Faculty of science and technology**

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A communication system consists of several components that work together to transmit and receive information or data. These components enable the transfer of information between a sender and a receiver. Below are the components of a communication system.

1. Source:

The source is the origin of the information or message to be communicated. It could be a person, a computer, a microphone, or any device that generates data or content to be transmitted.

1. Transmitter:

The transmitter converts the information from the source into a suitable signal for transmission. It modulates the signal and prepares it for transmission over a transmission medium. This might involve encoding, compression, or other processing.

1. Transmission medium:

This is the physical path through which the signal or information travels from the transmitter to the receiver. It can be wired e.g., copper cables or optical fibers, or wireless e.g., airwaves for radio or microwave signals.

1. Receiver:

This is responsible for capturing the transmitted signals and demodulating it to recover the original information. It performs the reverse process of the transmitter.

1. Destination:

It where the information is intended to be received. It could be a display screen, a speaker, a, computer, or any device that processes and presents the information to the recipient.

1. Interference:

This refers to unwanted disturbances or interference that can disrupt the transmission of the signal. This can include electrical interference, background noise, or signal degradation during transmission.

1. Feedback

Is a component that allows the receiver to send information back to sender, indicating successful reception or requesting retransmission if error occur.

Diagram of a communication system:

