

## Analog And Digital Communication Systems

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### Analog And Digital Communication Systems

Definition: Analog and digital communications are the two types of data transmission system however several factors generate the difference between the two. The major difference between analog and digital communication lies in the signal being transmitted. In analog communication, the message signal is in analog form i.e., continuous time signal.

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The digitized signals allow the communication to be more clear and accurate without losses. The following figure indicates the difference between analog and digital signals. The digital signals consist of 1s and 0s which indicate High and Low values respectively.

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Key Differences Between Analog and Digital Communication Bandwidth: This factor creates the key difference between Analog and digital communication. Analog signal requires less... Power Requirement: Power requirement in case of digital communication is less a compared to Analog communication. ...

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### SESSION 18 ANALOG AND DIGITAL COMMUNICATION SYSTEMS SEM EC 24 JULY

Analog and digital signals are used to transmit information, usually through electric signals. In both these technologies, the information, such as any audio or video, is transformed into electric signals.

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Information is increasingly created, manipulated, stored, and transmitted in digital form-even signals that are fundamentally analog. Audio recording/playback, wired telephony, wireless telephony, audio and video broadcast-all of these nominally analog communications media have adopted, or are adopting, digital standards.

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Analog signals are continuous in both time and value. Analog signals are used in many systems, although the use of analog signals has declined with the advent of cheap digital signals. All natural signals are Analog in nature or analog signal is that signal which amplitude on Y axis change with time on X axis...

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The signal which represents this condition with an inclined line in the figure, is an Analog Signal. The communication based on analog signals and analog values is called as Analog Communication. Digital Signal. A signal which is discrete in nature or which is non-continuous in form can be termed as a Digital signal. This signal has individual values, denoted separately, which are not based on the previous values, as if they are derived at that particular instant of time.

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