

Communication Systems

Lecture - 1

by:

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Communication

- Communication plays an important role in modern civilization and development of society as a basic source like minerals, energy and health
- The process of transmission and reception of information over extended distances is called communication or telecommunication
- The information may be in the form of a speech or written words, music, diagrams, numbers ,pictures or computer data .

Historical Back Ground

- In ancient period , information was conveyed through well trained pigeons.
- Then came the era of messengers, who would walk on foot /cart /horse and carry the messages over long distances .
- With the advancement of technology, new methods of communication have been developed.

Historical Development

<i>Year</i>	<i>Event</i>
1844	Telegraphy – first telegraph cable link up in between USA and Europe .
1901	Radio transmission : Indian Physicist J.C .Bose made contribution to Marconi for establishing radio transmission .
1915	Coast to coast telephone service is started in USA .
1941	Co-axial cables with multiple channel were laid .
1962	Satellite communication started with the launching of Telstar satellite .
1965	First geostationary , Early Bird was launched .
1970	Optical fibre communication started in USA .

- 1975** First digital telephone switch
- 1975** Wideband communication system (cable TV etc)
- 1980** Compact disc is developed by Philip & Sony
- 1981** FCC adopts rules for commercial cellular telephone
- 1982** Internet is used to replace ARPANET
- 1985** Fax machines widely available in offices ,
- 1988** Trans –Atlantic optical fibre cables were laid , Since then entire field of communication has been revolutionized .
- 1989** First SONET standard optical fiber products released
- 1990** WWW becomes part of the internet
- 1990-2000** Digital communication system (ISDN, BISDN, HDTV, handheld computers, digital cellular etc.), Global telecom system