01:10

SIGNAL

- ★ It is a function that represents the variation of a physical quantity with respect to time.
- ★ Example: Variation in temperature of a city in one day i.e. 24 hours.
- ★ Analog Signal and Digital Signal.

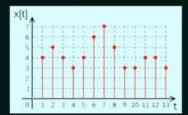
IESO ACADEMY

01:57

03:34

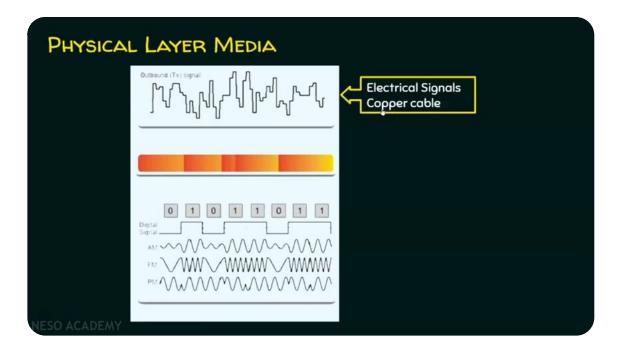
DIGITAL SIGNAL

- \star It is the signal that can take on of the finite values at any given time.
- ★ In case of digital signals, we discretize both time and magnitude.

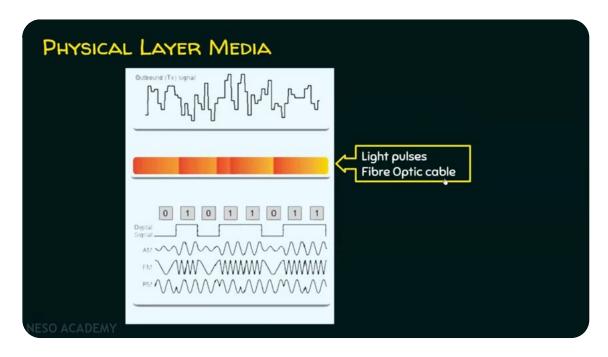


The signal x[t] can only take one value out of 0, 1, 2, 3, 4, 5, 6, and 7 for any discrete value of time.

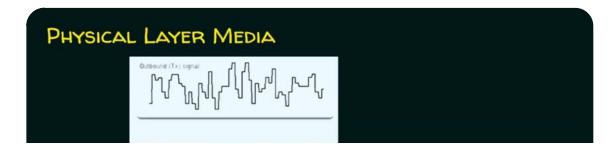
IESO ACADEMY

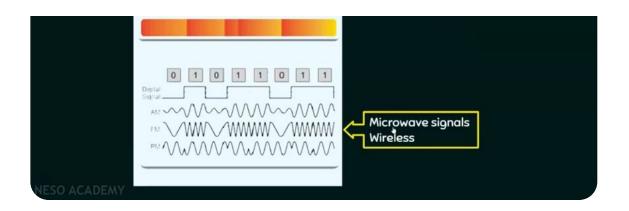


04:07



04:13





06:11

Media	Physical Components	Signal
Copper Cable (Wired)	·UTP/STP ·Coaxial ·Connectors ·NICs ·Ports/·Interfaces	Electromagnetic Signa
Fiber Optic Cable (Wired)	-Single-mode Fiber -Multimode Fiber -Connectors -NICs and Interfaces -Lasers and LEOs	·A light pulse equals 1. ·No light pulse is 0.
Wireless Media	·Access Points ·NICs ·Radio ·Antennae	·Radio waves

ANALOG SIGNAL

 \star It is the signal that can take any value in the defined range.

