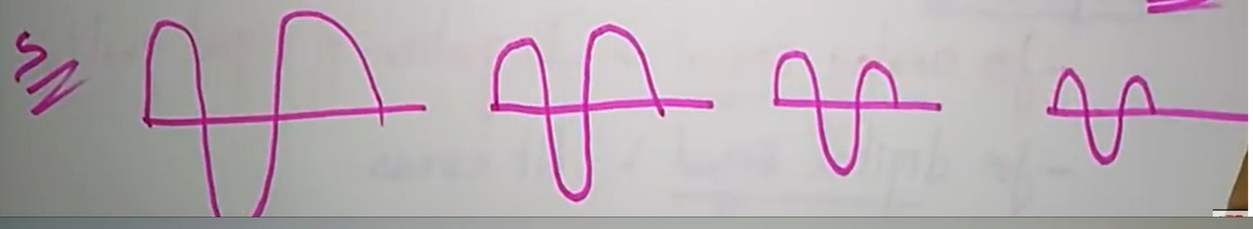
# Transmission Impairment

"When a signal transmit from one medium to other, the signal that is received may differe from the signal that is transmitted due to various impairments."

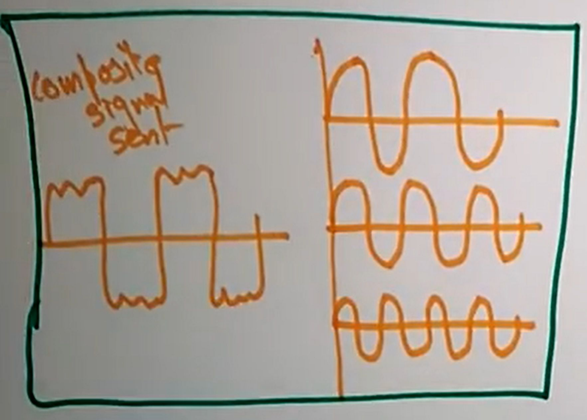
- Attenuation
- Distortion
- Noise.

**Attenuation:** "It refers to lose of Energy by a s

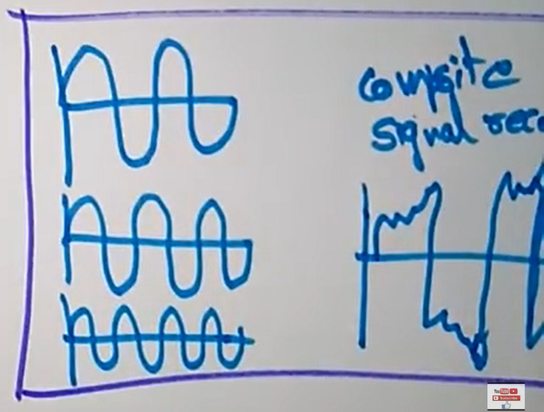


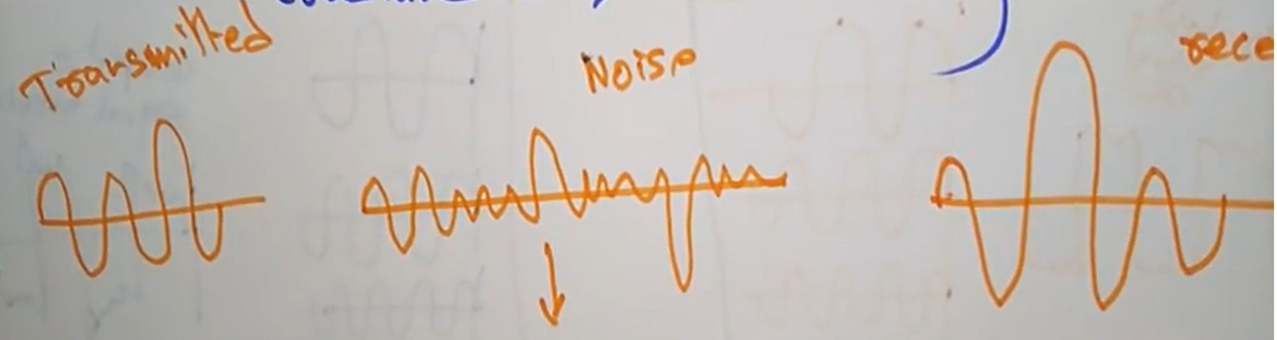

**Distortion:** means signal changes its form & shape

At sender




At receiver




**Noise:** Thermal noise, Induced noise, Crosstalk noise, Impulse noise } may corrupt the signal