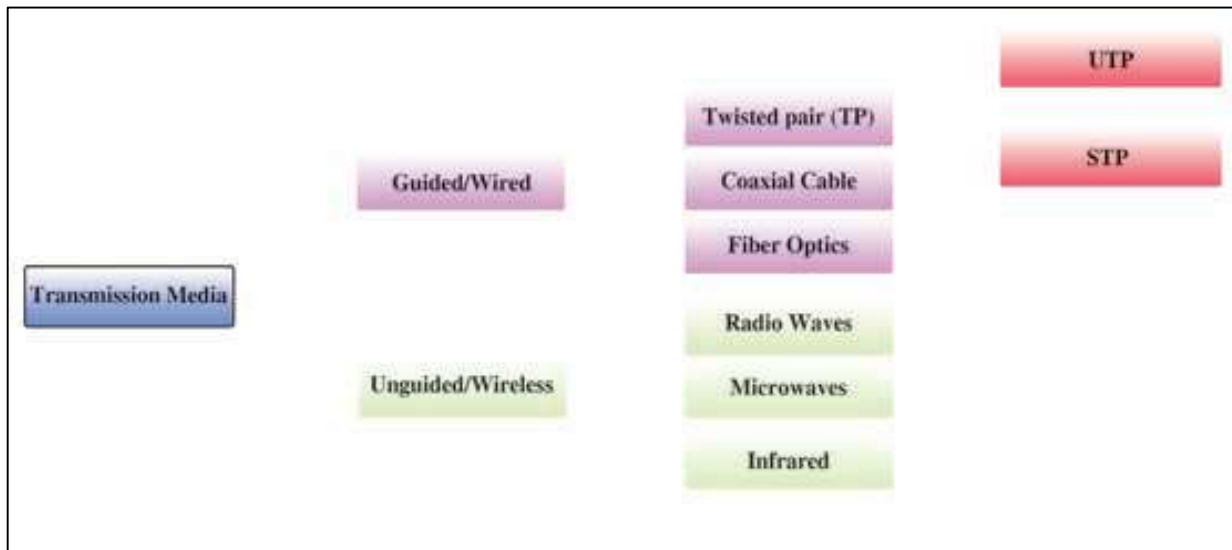


1.2 Data Transmission Media



1. Guided / Wired

- I. Twisted pair
- II. Co-axial
- III. Fibre optic

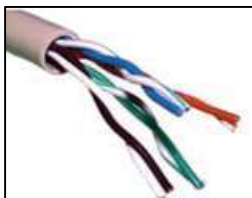
2. Unguided / Wireless

- I. Radio waves
- II. Micro waves
- III. Infrared

1. Guided / Wired

- If the medium used for data transmission is a physical medium, it is called guided or wired.

i. Twisted Pair



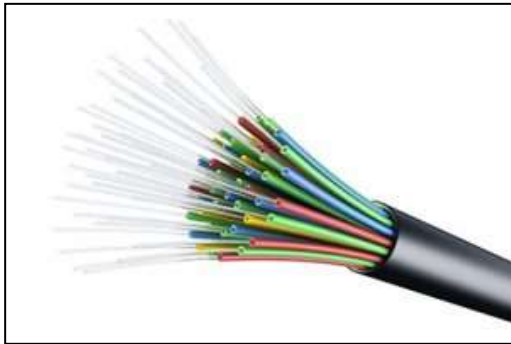
- Has two types one is STP (Shielded Twisted Pair) and UTP (Unshielded Twisted Pair)

ii. Co – axial



- Used for TV antenna and CCTV

iii. Fibre optic

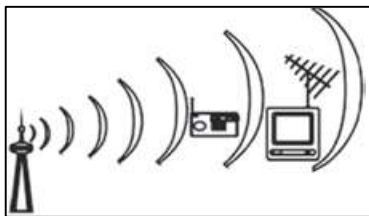


- These are used in modern telephone networks. The cable is relatively more expensive. This is the fastest data transmission media at present.

2. Unguided / Wireless

- Data is transmitted as signal through the air without using physical medium is called unguided/wireless media.

i. Radio Waves



- Data transmission is performed using radio waves. WIFI and Bluetooth are examples for radio waves based communication.

ii. Micro Waves



- Microwaves are used in Satellite communication to transmit data as transponders.

iii. Infrared



- Infrared data transmission is used in TV remote controllers, wireless keyboards and mouse etc.