

CS19541 - Computer Networks

ASSIGNMENT

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Feature	802.3 (Ethernet)	802.11 (Wi-Fi)
* Standard	IEEE 802.3	IEEE 802.11
* Type of Network	Wired Local Area Network (LAN)	Wireless Local Area Network (WLAN)
* Medium	Copper or fiber cable	Radio waves
* Data Transmission Speed	10Mbps to 400Gbps	Upto several Gbps.
* Distance	Limited by cable length	varies
* Frequency Band	N/A (wired communication)	2.4 GHz, 5 GHz, 6 GHz
* Interference	Minimal (since it's wired)	subject to interference
* Network Topology	star topology	ad hoc or infrastructure mode.
* Installation Complexity	Requires physical cabling and structural setup	Easier installation, no physical cables needed
* Mobility	No Mobility	High Mobility
* Use Cases	offices, datacenters, industrial environment.	Homes, public places, offices, mobile devices.