**Data Communications Research Points:**

* Cyclic Redundancy Check (CRC) Error Detection
* Baseband transmission vs. Broadband transmission.
* Congestion Control
* Transmission capabilities factors i.e. Bandwidth, Radiation, Noise Absorption, Attenuation and Level of shielding.
* Code Division Multiplexing (CDM).
* Forward and Backward Error Correction.
* Modes of Transmission i.e. Simplex, Half-duplex (HDX), Full duplex (FDX).
* Wired technologies for Connection
* Application of Asynchronous data Transmission.
* Physical topology and logical topology
* Wireless technologies for Connection
* Frequency Division Multiplexing (FDM).
* Time Division Multiplexing (TDM).
* Gateway vs. Firewalls
* Types of Data Transmission i.e. Parallel and Serial data Transmission.
* Parity Check Error Detection
* Causes of Congestion.
* Wavelength Division Multiplexing (WDM).

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