**Data & Telecommunication Lab**

Q-Group(57-120)

**Lab Report Points-**

**1.** No. & Name of Experiment

**2.** Objective

**3.** Theory (Definitions, Short 1-2 Line Description, Signal Diagram)

**4.** List of Apparatus

**5.** Working Principle (Detailed Work Process)

**6.** Circuit Diagram **(Printed Or, Hand Drawn)**

**7.** Output **(Must be Printed)**

**Tutorial Playlist-**

<https://www.youtube.com/playlist?list=PL6D0atsskVIuEhgcWHK9Nh8Xz0Yb2dKIc>

**Lab Class- 1**

(10-07-23)

**Experiment-1:** Generation of FSK (Frequency Shift Key).

**Lab Class- 2**

(17-07-23)

**Experiment-2:** Generation of ASK (Amplitude Shift Key).

**Lab Class- 3**

(31-07-23)

**Experiment-3:** Generation of BPSK (Binary Phase Shift Keying).

**Lab Class- 4**

(28-08-23)

**Experiment-4:** Design and generate a 4 to 1 line multiplexer.

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**Lab Class- 5**

(02-10-23)

**Experiment-5:** Design and generate a 1 to 4 line demultiplexer.

**Lab Class- 6**

(09-10-23)

**Experiment-6:** Generation of 7-Bit Hamming Code.

**Lab Class- 7**

(16-10-23)

**Experiment-7:** Error detection with hamming code.

**Lab Class- 8**

(30-10-23)

**Experiment-8:** Design and configure different types of network topology.