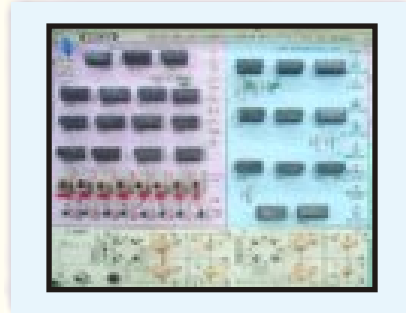# STUDY OF LINE CODES & THEIR SPECTRAL ANALYSIS

MODEL - COM122L

SIGMA

This trainer has been designed with a view to provide practical and experimental knowledge of the process of coding of digital data into different formats.

SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.

2. On Board Digital Data generator to generate any binary input word of

   Word Length : 8 Bits.

   Word Clock Frequency : 10 KHz

3. Line Coding Formats :
   1. Unipolar NRZ
   2. Unipolar RZ
   3. Bipolar NRZ (AMI)
   4. Polar NRZ
   5. Polar RZ
   6. Bi-phase (Split phase) Manchester

4. All parts are soldered on single PCB complete circuit diagram screen-printed.

5. Standard Accessories :
   1. A Training Manual
   2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of digital line coding and decoding.

2. To observe spectrum of different line codes on Spectrum Analyzer.