This trainer has been designed with a view to provide practical and experimental knowledge of advance elementary fiber optics on SINGLE PCB.

**SPECIFICATIONS**

1. **Transmitter**: 2 No. Fiber optic LED’s (Peak Wavelength of emission 660nm)
2. **Receiver**: 2 No. Fiber optic Photo Detectors
3. **Modulation Technique**:
   a. Direct Amplitude Modulation & Demodulation
   b. Frequency Modulation & Demodulation
   c. Pulse width Modulation & Demodulation
4. **Drivers**: Analog & Digital for both channels
   - Analog Bandwidth: 350 KHz
   - Digital Bandwidth: 2.5 MHz
5. **Function Generator**:
   a. 1 KHz Sine Wave (Amplitude adjustable)
   b. 1 KHz Square Wave (TTL)
6. **Power Supply**: 230V +/-10%, 50 Hz

**Experiments**

1. To transmit and receive analog signal using fiber optic cable:
2. To transmit and receive frequency modulated analog signal using fiber optic cable:
3. To transmit and receive Pulse width modulated analog signal using fiber optic cable: