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Product Name : Fibre-Optic Trainer for Numerical Aperature and Fibre Loss Measurement	**Product Code :** NLAB-ELECTRONICSAB240006

Description :

Fibre-Optic Trainer for Numerical Aperature and Fibre Loss Measurement

Technical Specification :

Fibre-OpticTrainer for Numerical Aperature and Fibre Loss Measurement has been designed specifically for the study of Numerical Aperature and Fibre Loss Measurement. Practical experience on this Trainer carries great educative value for Science & Engineering Students.

Object:

Study of :

Fibre Optic Transmitter and Receiver

Numerical Aperture of PMMA Fibre .

Loss in 1 Mtr / 5 Mtr. PMMA Patch Chords.

Electrical - Optical Converter Characteristics.

Optical to Electrical Converter Characteristics.

Intensity Modulation System.

Features:

The Trainer consists of the following built-in parts:

IC regulated D.C. Power Supply.

Fibre-Optic Analogue Transmitter @ 660 nm

Fibre-Optic Analogue Transmitter @ 850 nm

Fibre-Optic Receiver.

One-metre PMMA Fibre Patch cord.

Five-metre PMMA Fibre Patch cord.

In-line SMA Adaptor.

Two Potentiometer to vary forward current of LED in Transmitter & current of Phototransistor in receiver.

SPDT switch for selecting wavelengths 660 nm and 850 nm.

NA JIG with scale marked on it to measure length.

Mandrel.

NA measuring Scale to measure width of Fibre Optic’s LED.

Adequate no of other electronic componets.

Mains ON/OFF switch, Fuse and Jewel light.

The unit is operative on 230V ±10% at 50Hz A.C. Mains.

Adequate no. of patch cords stackable 4mm spring loaded plug length ½ metre.

Weight : 3 Kg. (Approx)

Dimension : W 340 x H 110 x D 210

Other Apparatus Required:

AF/RF Generator 10Hz to 1MHz

Digital Fibre-Optic Power meter

Digital Multimeter

Cathode Ray Oscilloscope 20MHz

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