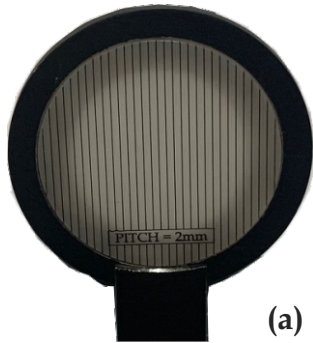
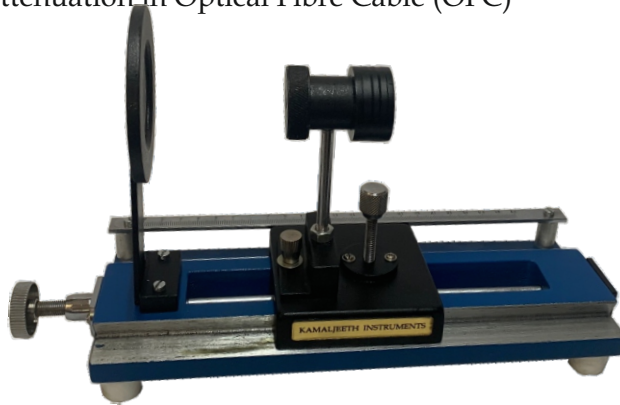


## Experiment(s):

1. Determination of Numerical Aperture and Divergence Angle of Optical Fibre Cable (OFC)
2. Determination of attenuation in Optical Fibre Cable (OFC)



(a)



(b)



(c)



(d)

## Experiment Setup Consists:

- a) X-Y Bed
- b) Laser & Power supply
- c) OFC Cable 1.5m & 3m
- d) Relative Light Intensity Meter

## Specifications:

### a) X-Y Bed:

Bed Length: 220 mm  
Screen: 35mm dia  
Graduations on screen: 2mm  
Movement: Course and fine using screw movement

### b) Laser:

Type: Semiconductor Diode Laser

Wavelength: 625nm (Red)

Output Power: 3mW

Mount: Cast Iron Base with levelling screw

### Power Supply:

Output: Suitable for 3mW & 5mW

Semiconductor Lasers

Input: Mains operated 220V, 50Hz or 110V, 60Hz

Mains cord: 2 pin

### c) Optical Fibre Cable (OFC)

Length: 1.5m or 3m

Core dia of the cable: 0.5mm

### d) Relative Light Intensity Metre

Optical Detector: Input from OFC

Power: Mains operated 220V, 50Hz or 110V, 60Hz

Mains cord: 3 pin

Reference : Lab Experiments Journal vol-6, No.4, Page-309  
Lab Experiments Journal vol-10, No.1, Page-60



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