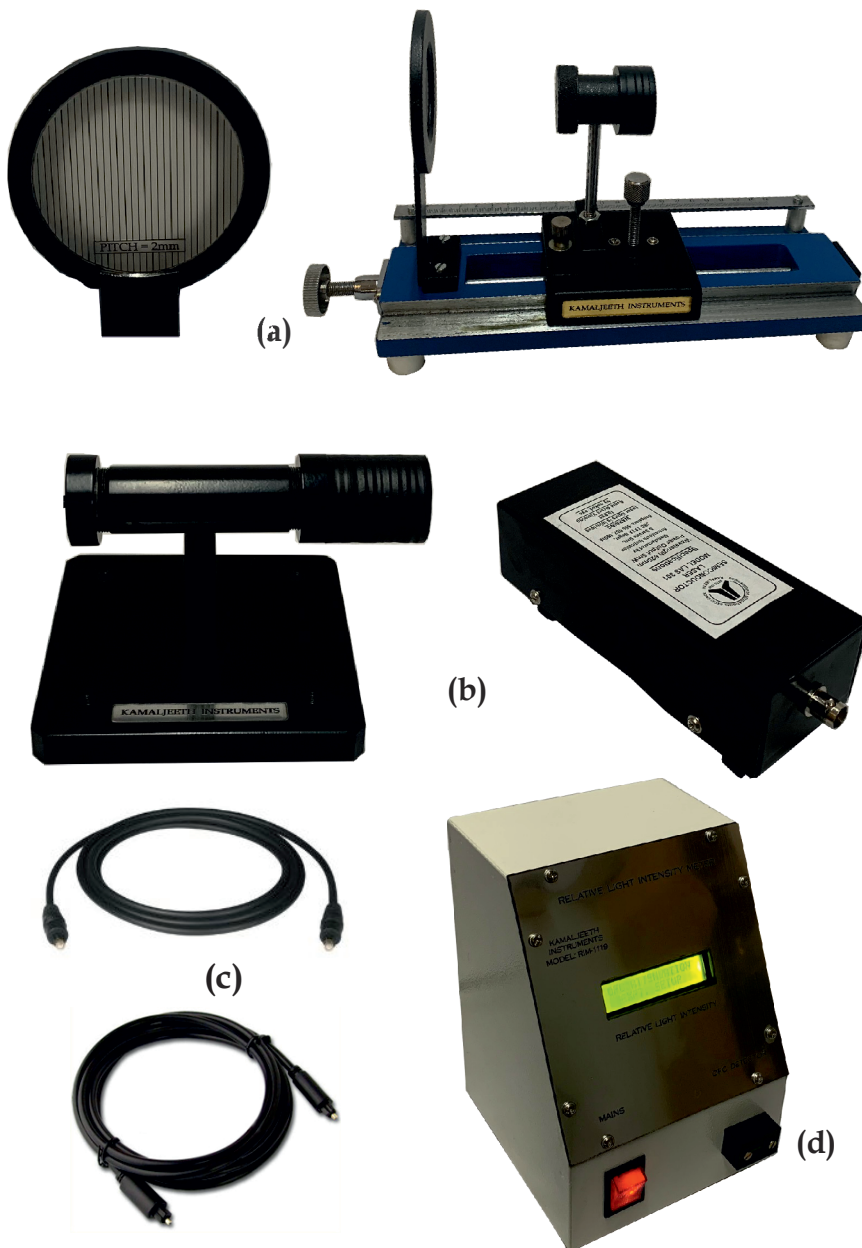


### Experiment(s):

1. Determination of numerical aperture and divergence angle of Optical Fibre Cable (OFC)
2. Determination of attenuation in Optical Fibre Cable

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



### Experiment setup consists:

- a) X-Y Bed
- b) Laser & power supply
- c) OFC cable 1.5 m & 3 m
- d) Relative light intensity meter

### Specifications:

#### a) X-Y Bed

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

#### b) Laser

Type: Semiconductor diode Laser  
Wavelength: 625 nm (Red)  
Output power: 3 mW  
Mount: Cast iron base with levelling screw

#### Power Supply

Output: Suitable for 3 mW & 5 mW semiconductor Lasers  
Rated Input: 220 V/50 Hz  
or 110 V/60 Hz  
Mains cord: 2 pin

#### c) Optical Fibre Cable (OFC)

Length: 1.5 m or 3 m  
Core dia of the cable: 0.5 mm

#### d) Relative light intensity metre

Optical detector: Input from OFC  
Rated Input: 220 V/50 Hz  
or 110 V/60 Hz  
Mains cord: 3 pin



## KAMALJEETH INSTRUMENTS

ESTD. 1990

Address: No. 610, 5th main, 8th cross Tatanagar, Bangalore - 560092, INDIA

Website: [www.kamaljeeth.net](http://www.kamaljeeth.net), Email: [labexperiments@kamaljeeth.net](mailto:labexperiments@kamaljeeth.net)

3 years manufacturing warranty