TOPIC:	Integrated optics (angle of minimum deviation)
AIM:	To determine the refractive index of the glass prismusing a spectrometer.
APPARATUS REQD.:	Spectrometer Spirit level Magnifying glass Glass prism Sodium vapour lamp
FORMULAE USED:	$\mu = \frac{\sin\left(\frac{A+\delta_m}{2}\right)}{\sin\left(\frac{A}{2}\right)}$ where, $\mu = \text{refractive index of glass prism}$ $A = \text{angle of prism}$ $\delta_m = \text{angle of minimum deviation}$
RESULT:	The refractive index of the given glass prism 18 1057645): 19 10 10 10 10 10 10 10 10 10 10 10 10 10
	Teacher's Signature

labulation:

Vennien	-Reading for minimum deviation position Ry			Reading for direct ray			Sm = R1 - R2	h
10 m	MSR	VSR	TR	MSR.	VSR	TR		
A	44°	0'	44°	o°	01	00	440	1.5760
B	224°	5 1	224 5	180°	0,	180 2	44°51	1.5769

For equilateral prism, 19 lingle $A = 60^{\circ}$ And refractive index, $\mu = \frac{\sin \left(\frac{A+\partial m}{2}\right)}{\sin \left(\frac{N}{2}\right)}$

Avg.
$$\mu = \frac{(1.5760)}{+ 1.5769}$$

·μ> = 1.57645