	Date: - 2021/03/04 Engineering Physics).	Lab Manual and Record Reg. No: - 208050405		
	INTEGRATED OPTICS.	- Shorts 2 and		
	The second secon	7 - 5 16 00 1		
	APPARATUS AVAILABLE:-	gental of the		
114	· Spectrometer	re-freeday		
	· Spirit level	24(8),672		
	· Magnifying Glass	incolonia!		
	· Glass prism	re in diamé :		
	· Sodium Vapour Lamp.			
		Security Sec		
	3LO:			
	To determine the apex angle of given a spectrometer.	prism using		
	(4) = 1 = new 1	-, 200 (CES) - 1/.5		
	: XVD 27 11 7 1	The state of the s		

Date: - 2021/03/04

PHY 1701 (Engineering Physics).

Lab Manual and Record Ray No: - 20BDS0405

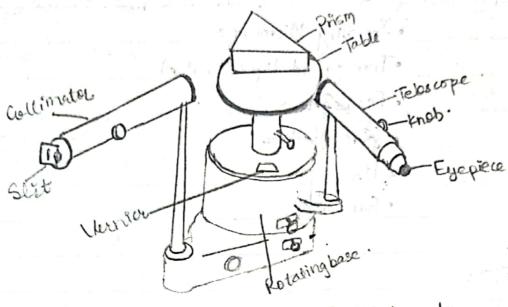
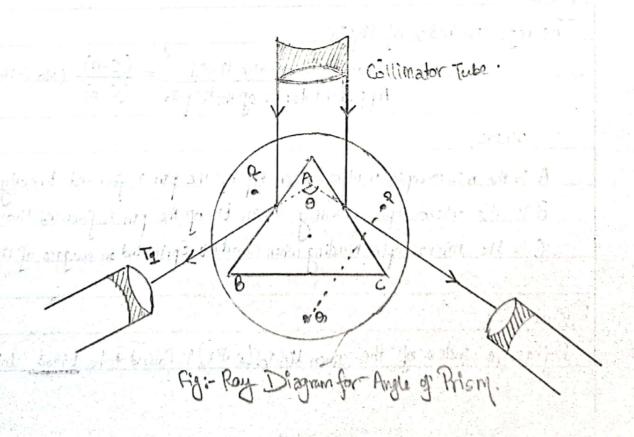


Fig:-Schematic diagram of a Spectromoder.



Dak: - 2021/03/04

Tabulation: -

Least Count = 1' = $(\frac{1}{60})$

Reading of	Vernier A			Vernier B.		
reflected ray-	MSP	VSP	Total	MSP	VSR	Total.
Reflection from 59de AB (a)	253	17,	29.3·28°	113°	13,	113.22
Reflection from side Ac.	55°	12,	55·2 +(360°)	235	25'	235-42
Difference between a'		0,=	121-92°		02=	122-2

Acan to

SAMPLE CALCULATIONS:

For Vernice A, for reflection of my from AB, MSR=293, VSR=17'
Total = 293 +17 = 293.28

for rejection of ray from AC. MSR=55°, VSR=12° Total= $55 + \frac{12}{60} = 55 \cdot 2^{\circ} + (360^{\circ})$

For vernice B, for reflection of my from AB, MSR = 113°, VSR = 13'
Total = 113+ 13 = 113.22°

for reflection of ray from AC, MSR = 235°, VSR = 25°

Total = 45:235+25 = 235.42°

Mean(0)= $\frac{0.10^2}{2} = \frac{122\cdot 2 + 121\cdot 92}{2} = 122\cdot 06$

Angle of prism (A) = $\frac{0}{2} = .122-06 = 61-03$

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Date :- 2021/03/04	Reg No: - 20BDSD405
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RESULT:- dans bast	X SIEV + TIM SOULD SOUL IT SOT
The apex angle of the	given equilateral prism is 52.03°
1 0 00	
8 = 1420-180.88 -,0 -vi d'b	J. B. Palling . 1 1 1 1 222
FORE (b) many	
10 51.	