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Expt. No./ Name:		Page No	<u>o</u> L
Vi	sion & Mission of Delhi Ted	hnological Universi	ty
Vision:		+ +	1 2-42
- arch for the sen	lass university through educativities of humanity.	ition, innovation an	Id HILL
Mission:			
To establish cent	res of excellence in emerging	z areas of science, e	ngineering
To foster an eco	ragement and allied areas. system for incubation, produc	t development, tran	nsfer ef
To create enviru	entrefreneurship onment of collaboration, ex	beginnentation, imag	ination
and creativity. To develop humo	in fotential with analytical	abilities, ethics a	nd the
integrity. To brovide envi	ronment friendly, reasonal	le and sustainable	solution
for local and gl	obal needs.		
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Vision & Mission of Department of Applied Physics

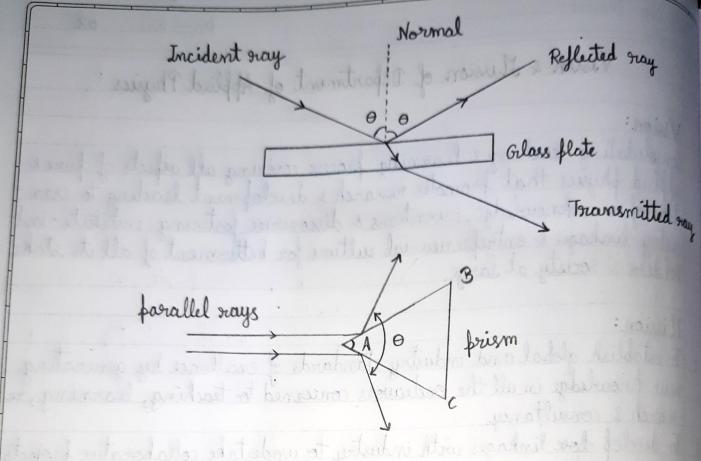
Vision:
Consolidating teaching & learning frocess covering all aspects of pure & applied physics that promotes research & development leading to creation of new knowledge, inventions & discoverius fostering institute-industry linkages & entrepreneurial culture for betterment of all its stake holders & society at large.

Mission:

- To establish global and industry standards of excellence by generating new knowledge in all the endeavors concerned to teaching, learning, re-search & consultancy.
- 2 To develop close linkages with industry to undertake collaborative projects so as to enable young engineers to be a part of fast changing technological scenario.
- 3 To help our students in developing human potentials, intellectual interests, creative abilities & be liplong learners to meet the challenges of national & global environment & be true professional leaders.
- 4. To stand up to the needs & expectations of our society by equipping & training our students to be good citizens, aware of their commitments & respon exhibities, to make this world a better place to live.
- 5 To be a world class centre for education, research & innovation in various upcoming fields of Applied Physics.
- 6. To focus on the divelopment of cutting-edge technologies & to foster an environment of reamlessness between academia and industry.



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Observation table:

	S.v	vo.	side	L = M	lected from f frism SR+(LC× SR)	side	AC	flected from of friem SR+CLC× VSR)		Angle of friem (A)(°)
1	To it		MSR	VSR	Total	MSR	VSR	Total	an all safe	tashut
T	1	Vi	240	25	240.416	120	13	120.216	120.2	60.1°
1		V2	59.5	12	59.7	ર૧૧.5	14	299.733	119.967	59.9835°
1	2	V,	240	6	240.1	170	15	120.25	119.85	59.925°
			59.5	13	59.716	299.5	21	299.85	119.866	59.933°

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Experiment 1.

Aim:

To measure the angle of friem using efectrometer.

Albaratus:

Spectrometer, frism, magnifying glass, rodium vapor lamp

Theory:

When a beam of light strikes on the surface of transparent material, a portion of light is transmitted & the other portion is reflected. When a beam of light strikes on a flane surface, the angle of reflection will be the same as angle of incidence.

Angle of friem (A) is the angle between the two refracting edges of friend If angle between 2 reflected ray is measured as 0,

then the angle of the friem is, A = 0

least count of an instrument gives the minimum measurement that

Least count of spectrometer:

least count = MSD/no. of divisions on vernier scale

As, 20 MSD = 10°

So, 1 MSD = (10)

No. of divisions on vernier scale = 30



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Calculations:

Mean
$$A = 60.1 + 59.933 + 59.925 + 59.9835 = 59.985375$$

Percentage covor = $\frac{60 - A}{60} \times 100 = \frac{60 - 59.98}{60} \times 100$

= $\frac{0.02}{60} \times 100 = 0.034\%$

ie. LA is around 60.

- 5 A & main

1 draminet

m that spattering

nt ount of spectrometer:

Ten = definition

directors on victorian scale 30

- Venneral Venneral

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Least count = (1%) = (1) = 1'

= 1 minute

Procedure:

1 Determine least count of spectrometer

2. Set the telescope by focusing on distant object 3. Place frism on prism table with refracting / A towards collimeter

4. In this case some of light falling on each face will be reflected & can be received with help of telescope.

5. Telescope is moved to one side to recieve light reflected from face AB & the cross wire are focused on image of slit. Readings of 2 verniors are taken.

6. Refeat the process for face AC.

7 The angle through which telescope is moved gives twice of the repracting LA of the brism.

8. Half of this angle gives repracting angle of frism

Result:

The angle of brism = 59.98° aftrox Percentage error = 0.034 %

Precautions and sources of error:

1. Light coming from slit should be narrow and bright
2. Telescope must be focused.

Reading of vernier scale should be taken carefully Parallax error must be avoided.

5. Prism table should be leveled with a spirit level before playing prism



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