Ry = VH t = 1, Hall coefficient.

Teacher's Signature:_

Magnetic Field v/s Current

S.No.	current (A)	Magnetie field (8)	
1 2 3 4 5 6	1 1.5 2 2.5 3.5 4 4.5	0.1482 0.222-3 0.2964 0.3706 0.4447 0.5188 0.5929 0.6670	
9	. 5	D. T411	

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Date	Expt. No				
	Expt. Name Page No				
	Procedure:				
4	To measure the magnetic feeld generated in solwoid:				
1)	select Magnete field. Ys current.				
•)	Select Megnete field. Ys current. Place the probe in between the solenoid by clicking				
	the examples strend				
8)	Using current slidy varying the current through solenoid				
	Using current slider, varying the current through solenoid and corresponding magnetic field is to be noted.				
•	Hall effect Apparatus:				
)	Place the probe in between the solensial.				
2)	Set "current stoler" value frager to minimum.				
4)	vary the hall current from a Selected thicknes.				
7	Note down the casespanding that voltage by clicking				
5)	'show voltage' button. Then calculate flall confficient and carrier concentration				
-	of that material using the equation.				
	The state of the s				
	Result:				
	tall Coefficient of the material, RH = 0.0194				
	Ceroier concentration of natural, $N = 1 = 3.22 \times 10^{20} \text{ m}^{-3}$				
	o eku				
	· · · · · · · · · · · · · · · · · · ·				

Teacher's Signature:_

Hall Effect

S.NO.	Half aurunt (A)	thickness (mm)	Hall Voltage (MV)	R _H :
1, 2, 3, 4, 5, 6, 7, 8, 9	1.5 2.5 3.5 4 4.5.	0.2 0.2 0.2 0.2 0.2 0.2 0.2	28.756 43.133 57.511 71.889 86.267 100.645 115.023 129.40 143.778	0-0174 - 0.0194 - 0.0194 - 0.0194 - 0.0194 - 0.0194 - 0.0194 - 0.0194 - 0.0194

$$R_{H} = \frac{V_{H} t^{2}}{T\theta} = \frac{28.75.6 \times 0.2}{20.0194}$$

 $\| \phi_{ij} \|_{L^{\infty}} \leq \| \phi_{ij} \|_{L^{\infty}} + \| \phi_{ij$