	Date. 9/9/19
pt. No6	Page No
Manschrometer	Is in sophisticated instrument
Apparatus Available	
Laser source, was	enj, Scale with measurements.
S10:	
To determine. Jases source differention gr	the manelength of the given using transitission afing method.
theory -	
d = the spoing by (came thing as If thereon are the space by we The diffraction are	prom the grating to the screen.  We every trouver?  Notice permon of the grating, then way? adjacent lines is d=1  Notice permon of the principal of the principal and o = angle of the angle of the principal and o = angle of the
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	Teacher's Signature :

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		Sum	2 Leens	(cm)	tono=L/s	0=tan7(45)	500	Mean	1 CAN
		25	3.2	1.6	0.064	3.66	0.0638		
	1	30	3.8	1.9	0.063	3.6	0-0627	0.0624	624
		35	4.5	2.25	0.064	2.66	0.0678		,
		25	6.5	3.25	0.13	7.4	0.128		
	2	30	7.8	3.9	013	7.4	0.12	0.128	640
		35	9.2	4.6	6.13	7.4	0.128		
		25	8	4	0.16	9.09	0.157		
	3	30	15	6	0.2	11.3	0.195	0.207	690
		35	19.8	9.9	0.282	15.7	0.27		
ı						,		3	6

Date
Page No
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Mo. of lines per natur on the grating is 105 nm
No. of lives par moror or
colculations:
0.0678+ 0.0627 +0.0678 = 0.0674 \= 0.674=604
3
0.1201
$\frac{3}{0.157 + 0.195 + 0.27} = 0.207 = 0.207 = 690$
624 +640+690 =654.6nm
Result:
The wavelength of the laser source is found to be
654.6 nm
(95)
$\frac{1}{a}$
Teacher's Signature :