	LAB REPORT NO 2
	Title: Gauge
	OCS PLU CHARGE
	Experiment: Use the screw gauge to measure. The diameter of a small bob and a
	Use the screw gauge to measure
	the diameter of a small bob and a large bob.
	large 60b-
	Objective :- Gauge can be used
	Objective :- Screw Gauge can be used
A. Com	to measure:
•)	Thickness of a glass.
<i>a</i>)	Diametes of metal sphere.
0)	Diameter of wire. Thickness of thin sheet.
•)	Diameter of wire. Thickness of thin sheet.
	Apparatus:
0)	Screw Gauge
0)	Small bob_ m,
• •)	large bob. mi
0)	Calculator.
	Procedure :
1.	First check the screw gauge for zero error
	by closing the circular.
	1

2. It the O of circular scale is below—the base line—then it is positive zero error—and if O of circular scale is above—the base line—then it is negative zero error.

3. Note down—the zero error— Now place the small bob in-between the spindal and annual.
Rotate the thimble to tighten the bob. Use the rachet to tighten it even move.

Record the reading on M.S and C.S.

Then find the diameter of by using.

formula, x = M.S.R + (C.S.R x L.C) 8. Add the zero error in the final reading it it is negative zero error and subtract the zero error if it is positive zero error.

1. Repeat Step # 4,5,6,7,8 for large bob m.

1. Calculate average reading of small bob as well as the big bob. 10.

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ZERO ERROR 8-

Z.E = nx L.C Z.E = 4x 0.01mm Z.E = -0.04mm

Zero error is negative.

		Small	Bob.
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SY No.	M.S.R	C.S. R	Diameter	Positive zero error correction.
01	11.5mm	10	11.5 + (10 x 0.01)=11.6	
	11.5mm		11.5+(10 x0.01) = 11.6	
Ave	rage:			
The second secon	Y		$X = \frac{R_1 + R_2}{2}$	
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$$X = 11.64 + 11.64$$

ZERO ERROR 8-Z.E = mx L.C Z.E = 4x 0.01mm Z.E = 0.04 mm Large Bob.

ST No.	M.S.R	C.S.R	Diameter	Positive zero error correction
Ot	17.5 mm	35	17.5+(35x0.01)=17.85	17.85+0.04=17.8
02	17.5mm	35	17.5+(35x0.01)= 17.85	17.85+0.04 = 17.86 mm
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4ve	rage.	The perfect of the pe	$X = R_1 + R_2$	

 $X = \frac{R_1 + R_2}{2}$

$$X = \frac{17.86 + 17.86}{2}$$