Experiment Day : Rough Sheet

Write the name of the experiment (BLOCK LATTER) : For example:

DETERMINATION OF SPECIFIC RESISTANCE OF A WIRE USING A METER BRIDGE.

1. **Theory** : Write the working Formula with symbol meaning. **For example**:

$$R = \frac{D_{n+P}^2 - D_n^2}{4\lambda p}$$

Where,

R = Radius of curvature of the plano-convex lens
λ = Wavelength of the monochromatic light
D = Diameter of the ring
p = Difference of the numbers of rings

2. **Apparatus** : Write the name of the apparatus.

3. **Experimental Data** : Draw the table & write necessary information from book

Table - 1 : **Table Caption** e.g. Data for.....

	.....appropriate unit	**.....appropriate unit**	**.....appropriate unit**

4. **Calculation** :

a. Using working formula and table data

b. Draw Graphs (where necessary & **use cm graph**) with appropriate data from the Table

c. Error calculation (%) : using standard & measured values

d. Write the **Result** : Using the experiment name write the result with error calculation.

Example : The specific resistance of wire measured by using meter bridge is .... with error of ...%.

RECOMMENDED BOOK :

1. Practical Physics for Degree Students - Dr. Gias uddin Ahmad and Md. Shahabuddin.

REFERENCE BOOKS :

1. B.Sc. Practical Physics- C. L Arora
2. Practical Physics- S.L. Gupta and V. Kumar

Important Note :

i. Must take **signature** in the rough sheet from the respective class teacher, otherwise, it will not be evaluated.

ii. Must submit **this rough sheet** with the **final lab report,** otherwise, the final report will not be evaluated.

iii. Submit the final lab report **within 1 week** after completion of the experiment.

iv. Don't use mobile phone in the Lab, if you do, you will be penalized. Copying data from the mobile phone will be a punishable offence.

MARKS DISTRIBUTION OF SESSIONAL (150)

▪ Daily experimental report	= 45
▪ Final Exam	= 45
▪ Class Performance + Attendance	= 15
▪ Quiz	= 30
▪ Viva voice / Presentation	= 15
Total:	= 150

i. MARKS DISTRIBUTION OF DAILY EXPT. REPORT (45)

1. Abstract (**Own word**)	= 03
2. Introduction (**Own word**)	= 03
3. Theory (including exp setup) and apparatus	= 03
4. Procedure (past tense & passive voice)	= 05
5. Experimental data	= 15
6. Calculation (data, graph & error) + Result	= 10
7. Discussion (past tense & passive voice, **own word**)	= 03
8. Conclusion & Reference	= 03
Total	= 45

ii. MARKS DISTRIBUTION OF FINAL EXAM (45)

▪ Theory and Apparatus	= 10
▪ Experimental data	= 15
▪ Calculation (data, graph & error)	= 15
▪ Result	= 2.5
▪ Discussion	= 2.5
Total	= 45

iii. QUIZ (30)

A quiz test will be taken after end of the sessional classes. Theory and practical related question will be set such as : True / False, Fill in the Blank, Short question, Broad question, etc.

iv. VIVA/PRESENTATION (15)

A final viva will be taken from all through the syllabus (Theory and Sessional).

SESSIONAL SYLLABUS
COURSE : PHY-102 (CH-1.5)

LIST OF EXPERIMENTS

Expt No	Name of Experiments	Remarks
E_1	Determination of specific resistance of a wire using a meter bridge.	
E_2	Determination of resistance of a galvanometer by half deflection method and a high resistance by the method of deflection.	
O_2	Determination of radius of curvature of a Plano convex lens by Newton's ring method.	
O_4	Determination of the wave length of sodium light by a spectrometer using a plane diffraction grating.	
W_2	Determination of the spring constant and the rigidity modulus of the spring.	
W_3	Determination of the value of g acceleration due to gravity by means of a compound pendulum.	
M_1	Determination of Young's modulus of a bar by bending method.	
H_1	Determination of the thermal conductivity of a bad conductor by Lee's method.	

SESSIONAL CLASS SCHEDULE
PHYSICS LAB

EWCE-9: L-1, T-2

WEEK	TENTATIVE DATE (WED DAY)	PROGRAM	REPORT SUBMISSION DATE	REMARKS
1	27.09.23	ORIENTATION		
2	04.10.23	EXPT DAY-1		
3	11.10.23	EXPT DAY-2		
4	18.10.23	EXPT DAY-3		
5	25.10.23	EXPT DAY-4		
6	01.11.23	EXPT DAY-5		
7	08.11.23	EXPT DAY-6		
	15.11.23	HOLY DAY		MIDTERM
8	22.11.23	EXPT DAY-7		
9	29.11.23	EXPT DAY-8		
10	06.12.23	REVISION CLASS		
11	13.12.23	EXAM/VIVA:DAY -1		
12	20.12.23	EXAM/VIVA:DAY -2		
13	27.12.23	RESERVE DAY		
	31.12.23	QUIZ		EXTRA TIME
14	03.01.24	RESERVE DAY		
CLASS END:04.01.24				