## **BSPH-107**

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## Total Laboratory Load: 4 months (16 Lab period = 2 hrs. each)

#### **Course Outcomes:**

After successful completion of the Physics-I laboratory course, students should be able to:

- CO1: Verify the theoretical formulations/ concepts of physics.
- CO2: Know the art of recording the observations of an experiment scientifically.
- CO3: Learn by doing.
- CO4: Handle and operate the various elements/parts of an experiment.
- CO5: Understand the importance of an experiment in engineering & technology.
- CO6: Preparing for vocational skills at diploma level
- CO7: Standardization of the knowledge acquired

	CO/PO Mapping S-strong, M-medium and W-weak indicate the strength of correlation												
COs	Programme outcomes (POs)												
	РО	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
	1												
CO1	1	2	1	3	1	2	2	2	2	3	2	1	
CO2	1	2	1	2	1	2	2	3	2	2	2	3	
CO3	1	1	1	2	2	2	3	2	2	3	3	3	
CO4	2	1	2	2	3	2	3	3	3	3	3	3	
CO5	1	1	1	2	2	3	2	3	3	2	3	3	
CO6	1	1	2	2	1	2	3	3	2	3	3	3	
CO7	2	1	1	2	2	3	3	3	3	3	3	2	

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## **BSPH-107**

# Applied Physics-II Lab

# Total Laboratory Load: 4 months (16 Lab period= 2 hrs. each)

#### List of Experiments:

- 1. To establish the current-voltage relationship and verify Ohm's law by using an ammeter and voltmeter, and to determine the value of resistance.
- 2. To measure the value of resistance using a multi-meter and compare it with the resistance values determined from the color code of resistors.
- 3. To demonstrate & verify the series and parallel combination of resistors using a multimeter.
- 4. To find the resistance of a given wire using metre bridge.
- 5. To determine the resistance of a galvanometer using the half deflection method and calculate its figure of merit.
- 6. To determine the frequency of electrically maintained tuning fork by using Melde's method.
- 7. To study the transverse nature of light.
- 8. To Find the Focal Length of a Concave Lens, Using a Convex Lens.
- 9. To study the voltage-current (V-I) characteristics of a diode.
- 10. To investigate the voltage-current (V-I) characteristics of a photocell or solar cell.
- 11. To convert a galvanometer into an ammeter by adding a shunt resistor in parallel.
- 12. To convert a galvanometer into a voltmeter by adding a series resistor.