



LAB ACTIVITIES OF PHYSICS (2024-25) XII

Month	Practical/Activity to be conducted
April	1. To determine the resistivity of two / three wires by plotting a graph for potential difference versus current. 2. To find the resistance of a given wire / standard resistor using a metre bridge.
May	3. To verify the laws of combination (series) of resistances using a metre bridge. 4. To verify the laws of combination (parallel) of resistances using a metre bridge
July	5. To determine the resistance of a galvanometer by half-deflection method and to find its figure of merit. 6. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of the desired range and to verify the same.
August	7. To measure resistance, voltage (AC/DC), and current (AC) and check the continuity of a given circuit using a multimeter. 8. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
October	9. To find the value of v for different values of u in the case of a concave mirror and to find the focal length. 10. To find the focal length of a convex mirror, using a convex lens.
November	11. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 12. To find the focal length of a concave lens, using a convex lens.
December	13. To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and the angle of deviation. 14. To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.
January	15. To find the resistance of a given wire / standard resistor using a metre bridge. (Revision.) 16. To measure resistance, voltage (AC/DC), and current (AC) and check the continuity of a given circuit using a multimeter. (Revision.)