

SYLLABUS FOR THE SESSION 2023-24

CLASS: XII

SUBJECT: Physics

MONTH	TEXT BOOK	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
April	Chapter–1: Electric Charges and Fields	E- Library notes and Smart Class	Experiment - 1- Determine resistance per cm of given wire using Ohm's Law
May	Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity	E- Library notes and Smart Class	Experiment - 2- Using Meter Bridge find unknown resistance of given wire
July	Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter	E- Library notes and Smart Class	Experiment - 3- Using Meter Bridge verify series Experiment - 4- Using Meter Bridge verify parallel combination
August	Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	E- Library notes and Smart Class	Experiment - 5- Resistance of Galvanometer using half deflection method Experiment - 6- To find focal length of convex lens by plotting graph between U v/s V & $1/U$ v/s $1/V$.
September	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments	E- Library notes and Smart Class	Experiment - 7- To find the focal length of a concave lens, using a convex lens. Experiment - 8- To find the focal length of a convex mirror, using a convex lens.
October	Chapter–10: Wave Optics Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms	E- Library notes and Smart Class	Experiment - 9- To find the value of v for different values of u in case of a concave mirror and to find the focal length. Experiment - 10- To determine angle of minimum deviation for a given prism by plotting a graph. Experiment - 11- To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.
November	Chapter–13: Nuclei Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	E- Library notes and Smart Class	Project and Practical Preparation
December	Revision for Board Exams/Preparation for Practical Exams		