SYLLABUS 2022-23

SUBJECT - Physics		CLASS - 12

TERM I

MONTH	TEXT BOOK - TOPIC	E LIBRARY TOPIC	ACTIVITY PROJECT/READING/ASL
APRIL	Chapter–1: Electric Charges and Fields	Chapter–1: Electric Charges and Fields	**Experiment - 1-** Determine resistance per cm of given wire using Ohm's Law
MAY	Chapter–2: Electrostatic Potential and Capacitance	Chapter–2: Electrostatic Potential and Capacitance	**Experiment - 2-** Using Meter Bridge find unknown resistance of given wire
JULY	Chapter–3: Current Electricity	Chapter–3: Current Electricity	**Experiment - 3-** Using Meter Bridge verify series combination. **Experiment - 4-** Using Meter Bridge verify parallel combination.
AUGUST	Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter	Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter	**Experiment - 5-** Resistance of Galvanometer using half deflection method
SEPTEMBER	Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	**Experiment - 6**- To find focal length of convex lens by plotting graph between U v/s V & 1/U v/s 1/V. **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.

TERM II

OCTOBER	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments	**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–10: Wave Optics Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms	Chapter–10: Wave Optics Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms	**Project Work**
DECEMBER	Chapter–13: Nuclei Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	Chapter–13: Nuclei Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	**Revision for final Practical exam**
JANUARY	Revision of annual syllabus		**Revision for final Practical exam**
FEBRUARY	Revision of annual syllabus		**Practice on viva-voice question**