

SCIENCE (SUBJECT CODE – 86)

SIYABUS FOR THE PURPOSE OF EXAMINATION 21-22

CLASS –X SUB: - PHYSICS

TERM 1

CHAPTER	TOPIC	MARKS
10. Light – Reflection and Refraction Phenomena	Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens	16
11. Human eye and colourful world	Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.	

TERM 2

CHAPTER	TOPIC	MARKS
12 Electricity	Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R	<u>15</u>
13 Magnetic effects of current	Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule.	