## Class – XII DELETED SYLLABUS (For the Session of 2020-21 Only) PHYSICS

PHYSICS (THEORY)

**Unit I:** Electrostatics

Uniformly charged thin spherical shell (field inside and outside)

**Unit II:** Current Electricity

Carbon resistors, colour, code for carbon resistors; series and parallel combinations of resistors.

**Unit III:** Magnetic Effects of Current and Magnetism

Cyclotron, Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; Para-,Dia- and ferro – magnetic substances with examples. Electromagnets and factors affecting their strengths. Permanent magnets.

**Unit IV:** Electromagnetic Induction And Alternating Currents

Power in AC circuits, Wattless Current.

**Unit V:** Electromagnetic waves

Displacement Current.

**Unit VI: Optics** 

Reflection of light, spherical mirrors, mirror formula.

Scattering of light – blue colour of the sky and reddish appearance of the sun at sunrise and sunset.

Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.

Polarisation, plane polarised light; Brewster's law, uses of plane polarised light and Polaroids.

**Unit VII: Dual Nature of Matter and Radiation** 

Davisson-Germer experiment.

**Unit VIII: Atoms and Nuclei** 

Radioactivityalpha, beta and gamma particles/rays and their properties; radioactive decay law.

**Unit IX:** Electronic Devices

Zener diode; Zener diode as a voltage regulator.