

## SYLLABUS CLASS XII (SCIENCE) FOR PHYSICS

2018 -2019

**First term**

### April

- Electrostatics
  - Electric Charges and fields
  - Gauss's Theorem
  - Electric Potential and Potential Energy
  - Capacitors and Dielectrics
- Current Electricity
  - Electric Resistance and Ohm's Law
  - DC circuits and Measurements
- Ray Optics
  - Refraction of Light
  - Lenses
  - Prism
  - Optical Instruments

### May

- Ray Optics (continued)
- Magnetism
  - Moving Charges
  - Moving coil Galvanometer
  - Magnetic Field and Earth's Magnetism
  - Magnetic Classification Of Substances

### June

- Electrons and Protons
  - Bohr's Theory
  - Nuclear Structure
  - Radioactivity
  - Nuclear Fission and Fusion

### July

- Electrons and Protons (continued)
- Electromagnetism
  - Electromagnetic Induction
  - Alternating Currents

- Wave Optics
  - Huygens's Principal
  - Interference Of Light

### **August**

- Wave Optics (complete)
- Dual Nature Of Matter
  - Photoelectric Effect
  - Matter Waves

### **September**

- Dual Nature Of Matter(continued)
  - X-Rays
- Alternating Current
  - Electromagnetic InductionAlternating current

## **Second Term**

### **October**

- Alternating Current(continued)
- Semiconductor Device
  - Semiconductor Electronics
  - Junction Diode

### **November**

- Semiconductor Device (continued)
  - Junction Transistors
  - Logic Gates
- Revision