

## SYLLABUS 2024-2025

**Class : XII**

**Subject : PHYSICS**

**Book : NOOTAN ISC PHYSICS CLASS XII**

**Publisher : Nageen Prakashan**

### **Term 1**

1. Electric charges & fields
2. Gauss' theorem
3. Electric potential & potential energy
4. Capacitors & dielectrics
5. Electric resistance & Ohm's law
6. DC Circuits & Measurement
7. Moving Charges & Magnetism
8. Torque on a current loop: Moving Coil Galvanometer
9. Magnetic Field & Earth's Magnetism
10. Magnetic classification of substances
11. Electromagnetic induction

### **Term 2**

12. Alternating Current
13. Electromagnetic Waves
14. Spherical mirrors
15. Refraction of light at plane interface
16. Refraction of light at spherical surfaces: lenses
17. Refraction & dispersion of light through a prism
18. Optical instruments
19. Wave nature of light
20. Interference of light
21. Diffraction of light
22. Polarisation of light

### **Term 3**

23. Photoelectric effect
24. Matter waves
25. X - Rays
26. Atom , origin of spectra: Bohr's theory of hydrogen atom
27. Nuclear structure
28. Radioactivity
29. Mass energy equivalence: nuclear binding energy
30. Nuclear fission & fusion : source of energy
31. Semiconductor electronic
32. Junction diodes

### **Contact Us**

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- 33. Junction transistors
- 34. Logic Gates
- 35. Communication systems

**Term 4**  
Revision

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