

**ANDHRA PRADESH BOARD OF SECONDARY
 EDUCATION INTERMEDIATE (CLASS 12)
 DELETED TOPICS**

PHYSICS (DELETED TOPICS)

| Sr. No. | Topics | Sub-Topics |
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| 1 | Waves | Doppler effect and its two situations |
| 2 | Ray Optics and Optical Instruments | Reflection of light by spherical mirrors, the mirror equation. Scattering of the light reddish appearance of the sun at sunrise and sunset and blue colours of the sky. |
| 3 | Wave Optics | Diffraction: Resolving power of optical instruments (microscope and astronomical telescope) Polarisation: Polarisation of reflection (Brewster's law) plane-polarized light (uses) polaroids, polarization by scattering. |
| 4 | Electric Charges and Fields | Application of Gauss's law: Field due to uniformly charged thin spherical shell (field inside and outside) |
| 6 | Current Electricity | Colour code for carbon resistors, series and parallel combinations of resistors |
| 7 | Moving charges and magnetism | Cyclotron |
| 8 | Magnetism and Matter | Magnetic field intensity due to a magnetic dipole (Bar magnet) along its axis and perpendicular to its axis (Bar magnet as an equivalent solenoid), the dipole in a uniform magnetic field Magnetic properties of materials (Para, dia and Ferro) and its examples, permanent magnets and electromagnets. |
| 10 | Alternating Current-Power in AC circuit | The power factor, wattles current |

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| 11 | Electromagnetic waves | Displacement current |
| 12 | Dual nature of Radiation and matter | Davisson and Germer experiment |
| 14 | Nuclei | Radio activity (alpha, beta and gamma particles and their properties) Law of radioactive decay, half-life and mean a life of a Radioactive material, Binding energy per nucleon and its variation with mass number. |
| 15 | Semiconductor electronics | Materials, devices and simple circuits Purpose of P-N junction diode 1. Zener diode and their characteristics 2. Zener diode as voltage regulators. |