## GRADE : 12 PHYSICS

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## **ANNUAL PLAN**

| CHAPTERS   | PRACTICALS  |
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| 1. Electric charge and field   | Charging of balloon and comb through<br>conduction method.<br>Charging of piece of paper through induction<br>method.   |
| 1. Electric charge and<br>field(continued)   | 1.To determine resistivity of two / three wires<br>by plotting a graph for potential difference<br>versus current.  |
| 2.Electric potential and<br>Capacitance  | <ul><li>2. To verify the laws of combination (series) of resistances using a metre bridge.</li><li>To verify the laws of combination (parallel) of</li></ul>  |
| 3.Current Electricity  | <ul><li>resistances using a metre bridge.</li><li>3. To compare the EMF of two given primary cells using a potentiometer.</li><li>To determine the internal resistance of a given primary cell using a potentiometer.</li></ul>   |
| 4. Magnetic effect of electric current   | 1.To determine resistance of a galvanometer by<br>half-deflection method and to find its figure of<br>merit.  |
| 5.Magnetism  | <ul> <li>2.To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.</li> <li>To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.</li> </ul>   |
| <ul><li>6. Electromagnetic induction</li><li>7.Alternating Current</li><li>8. Electromagnetic wave</li></ul> |   |
| Revision for Terminal examination  |   |
| 9.Ray optics   | <ol> <li>To find the focal length of a convex lens<br/>by plotting graphs between u and v or<br/>between 1/u and 1/v.</li> <li>To find the focal length of a convex mirror,<br/>using a convex lens.</li> </ol>   |
| <ul><li>10.Wave Optics</li><li>11. Dual nature of matter and Radiation</li></ul>                             | <ul> <li>To find the focal length of a concave lens, using a convex lens.</li> <li>3. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.</li> <li>4. To determine refractive index of a glass slab</li> </ul>   |
|  | <ol> <li>Electric charge and field</li> <li>Electric charge and<br/>field(continued)</li> <li>Electric potential and<br/>Capacitance</li> <li>Current Electricity</li> <li>Magnetic effect of electric<br/>current</li> <li>Magnetism</li> <li>Electromagnetic induction</li> <li>Alternating Current</li> <li>Electromagnetic wave</li> <li>Revision for Terminal<br/>examination</li> <li>Ray optics</li> <li>Wave Optics</li> <li>Dual nature of matter and</li> </ol> |

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|          |   | 5. To find refractive index of a liquid by using convex lens and plane mirror.                  |
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| November | <ul><li>12.Atom , Molecule and Nuclei</li><li>13. Semiconductor</li></ul> | To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias. |