

SPLIT OF SYLLABUS (2020-2021)
SUB-PHYSICS, CLASS- XII

| MONTH | CHAPTER | TENTATIVE PERIOD REQUIRED | PRACTICALS |
|--------------|---|----------------------------------|---|
| APRIL | 1.ELECTRIC CHARGES AND FIELDS. 2.ELECTROSTATIC POTENTIAL AND CAPACITANCE | 22 | 1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current. ACTIVITY -1 AND ACTIVITY-2 |
| JUNE | 3.CURRENT ELECTRICITY 4. MOVING CHARGES AND MAGNETISM | 20 | 2.To find resistance of a given wire using metrebridge and hence determine the resistivity (specific resistance) of its material 3. To verify the laws of combination (series) of resistances using a metre bridge. ACTIVITY -3 AND ACTIVITY- 4 |
| JULY | 5. MAGNETISM AND MATTER 8. ELECTROMAGNETIC WAVES | 22 | 4. To verify the laws of combination (parallel) of resistances using a metre bridge 5. To compare the EMF of two given primary cells using potentiometer. 6. To determine the internal resistance of given primary cell using potentiometer. 7. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. |

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| AUG | 6. ELECTROMAGNETIC INDUCTION 7. ALTERNATING CURRENT | 24 | 8. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 9. To find the focal length of a convex mirror, using a convex lens. 10. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. |
| SEPT | 9. RAY OPTICS AND OPTICAL INSTRUMENTS 10. WAVE OPTICS | 27 | 11. To find the focal length of a concave lens, using a convex lens. 12. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 13. To determine refractive index of a glass slab using a travelling microscope. 14. To find refractive index of a liquid by using convex lens and plane mirror |
| OCT | 11. DUAL NATURE OF RADIATION & MATTER 12. ATOMS 13. NUCLEI | 23 | 15. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 16. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. 17. To convert the given Galvanometer into an Ammeter of desired range and to verify the same. |
| 7th ,NOV | 14. SEMICONDUCTORS ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS. | 7 | |

