

NAVY CHILDREN SCHOOL
SPLITUP SYLLABUS
SESSION 2024-25
CLASS XII
SUBJECT-PHYSICS (042)

Chapter	TOPIC	No of periods required	MONTH	LIST OF EXPERIMENTS	WEIGHTAGE
1	ELECTRIC CHARGES AND FIELD	8	April	SECTION A 1 Ohm's Law: - To find resistance per cm of a given wire	16
2	POTENTIAL AND CAPACITANCE	12	April ,		
3	CURRENT ELECTRICITY	15	May/JUN	2 Resistivity of wire using meter bridge & screw gauge.	
4	MAGNETIC EFFECTS OF CURRENT	16	JUN/JULY	3 Galvanometer - To find the resistance of galvanometer using half – deflection method	17
5	MAGNETISM	6	JULY		
6	ELECTRO MAGNETIC INDUCTION	8	JULY (6) AUG (2)	4 Galvanometer- Conversion of Galvanometer into Voltmeter & Ammeter.	
7	ALTERNATING CURRENT	10	AUG	3 ACTIVITIES FROM SEC A	
8	ELECTROMAGNETIC WAVES	3	AUG	1 Convex Lens: - Finding focal length of convex lens using u-v method with an optical bench.	18
9	RAY OPTICS	15	AUG	2 Concave mirror - -To find 'f' of concave mirror using u-v method.	
10	WAVE OPTICS	10	AUG (3) SEPT (7)	3 Convex mirror - - To find 'f' of convex mirror using a convex lens 4 To find 'f' of concave lens using a convex lens. 5 Prism – To find angle of minimum deviation of a prism & hence to find refractive index of glass prism. (3 ACTIVITIES FROM SEC B)	
11	DUAL NATURE OF RADIATION & MATTER	6			12
12	ATOMS	6			
13	NUCLEI	5	OCT		

14	ELECTRONIC DEVICES (SEMI CONDUCTOR)	6	OCT/ NOV	<u>P-N junction diode</u> (a) Forward bias characteristics (b) Reverse Bias characteristics	7
		TOTAL : 123		<u>30</u>	70