

**DELHI PUBLIC SCHOOL JAMMU**  
**SYLLABUS BIFURCATION**  
**SESSION- (2024-25)**

**CLASS-XII**

**SUB: Physics (042)**

**Objectives of the Theory:**

1. Strengthen the concepts developed at the secondary stage to provide firm foundation for further learning in the subject.
2. Expose the learners to different processes used in Physics-related industrial and technological applications.
3. Promote problem solving abilities and creative thinking in learners

**Objectives of the Practicals**

Develop process-skills and experimental, observational, manipulative, decision making and investigatory skills in the learners.

S.NO.	MONTH	NAME OF THE CHAPTERS
1	APRIL	Ch-1 Electric Field and Charges Ch-2 Electric Potential & Capacitance ❖ Foundation worksheet to strengthen the concepts learnt in class X and XI ❖ <b>Experiential activity To make a simple electroscope and use it to detect charges on bodies.</b>
2	MAY	Ch-3 Current Electricity ❖ Assignment 1 on chapters 1,2 and 3 and sample paper to give good practice to students before FA I
3	JUNE	Ch-4&5 Moving Charges and Magnetism ❖ Discussion and allotment of projects given by CBSE ❖ Revision of concepts through KAHOOT quiz 1
4	JULY	Ch-6 Electromagnetic Induction Ch-7 Alternating Current ❖ Checking and assessment of projects given in the month of June
5	AUGUST	Ch-8 E.M. Waves Ch-9 Ray Optics and Instruments ❖ Assignment 2 on chapters 4,5 and 6 to strengthen the concepts already taught in class
6	SEPTEMBER	<b>Ch-10 Wave Optics</b> Sample paper to give good practice to students before Half yearly exams
7	OCTOBER	Ch-11 Dual Nature of Matter and Radiations Ch-14 Semiconductor Devices ❖ Revision of concepts through KAHOOT quiz 2

8	NOVEMBER	Ch 12 – Atoms CH13 Nuclei ❖ Class test based on MCQs and A/R ❖ Sample paper to give good practice to students before Pre board exams ❖ Assignment 3 on syllabus for pre board I exam to strengthen and assessment of the concepts already taught in class.
9	DECEMBER	<b>PREBOARD I</b> ❖ Practice/revision of Experiments and activities will be given to students before final practical exams
10	JANUARY	<b>PREBOARD II</b>
11	FEBRUARY	Revision of the syllabus + Practical Examinations
12	MARCH	Board exams

### EXAM SCHEDULE

#### Syllabus of Cycle Test I

Ch-1 Electric Field and Charges  
 Ch-2 Electric Potential & Capacitance  
 Ch3 Current Electricity

#### Syllabus of Half-Yearly Examinations

Ch-1 Electric Field and Charges  
 Ch-2 Electric Potential & Capacitance  
 Ch-3 Current Electricity  
 Ch-4 Moving Charges and Magnetism  
 Ch-5 Magnetism and Matter  
 Ch-6 Electromagnetic Induction  
 Ch-7 Alternating Current  
 Ch-8 E.M. Waves

#### Syllabus of Pre-Board I

Ch-1 Electric Field and Charges  
 Ch-2 Electric Potential & Capacitance  
 Ch-3 Current Electricity  
 Ch-4 Moving Charges and Magnetism  
 Ch-5 Magnetism and Matter  
 Ch-6 Electromagnetic Induction  
 Ch-7 Alternating Current  
 Ch-8 E M Waves  
 Ch-9 Ray Optics and Instruments  
 CH-10 Wave Optics  
 Ch-11 Dual Nature of Matter and Radiation  
 Ch-14 Electronic Devices

#### Syllabus of Pre-Board II

Complete syllabus

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