

## INFORMATION TECHNOLOGY (402)

- OCT.** : Unit 1 (A) Communication Skill + Unit 2 (A) Self Management Skills  
**NOV.** : Unit 3 (A) ICT Skills + Unit 4 (A) Entrepreneurial Skill +  
Unit 5 (A) Green Skills  
**DEC.** : **Revision I Pre Board (I Periodic + II Periodic + Unit1 (A) + Unit 2 (A)  
+ Unit 4 (A) + Unit 5(A) + Unit 3 (A)**  
**JAN.** : **II Pre Board (I Periodic + II Periodic + Unit1 (A) + Unit 2 (A) +  
Unit 3 (A) + Unit 4 (A) + Unit 5 (A)**  
**FEB.** : **Revision**

## SOCIAL SCIENCE

- OCT.** : **History** : Ch. 7 Print Culture and the Modern World  
**Civics** : Ch. 6 Political Parties  
**Geo.** : Ch. 6 Manufacturing Industries  
**Eco.** : Ch. 3 Money and Credit  
**NOV.** : **History** : Ch. 3 The Making of a Global World  
**Civics** : Ch. 7 Outcomes of Democracy,  
**Geo.** : Ch. 7 Lifelines of National Economy

- DEC.** : **Revision and Map Work from the Map Practice**

## LIFE SKILLS/MORAL SCIENCE

- OCT.** : Ch. 7 Interpersonal Skills  
**NOV.** : Ch. 8 Self-Esteem

## ARTIFICIAL INTELLIGENCE (417)

- SEPT..** : Part B - Unit VII - Evaluation  
**OCT.** : Part B - Unit VII : Evaluation (contd.)  
**NOV.** : Part A - Unit I : Communication Skills - II,  
Part A - Unit V : Green Skills - II, Part B - Unit V : Computer Vision  
**DEC.** : I Pre Board : Part A (Unit II, III, IV, Part B (Unit I, II, VI, VII)  
**JAN.** : Revision + Project Work  
II Pre Board : Part A (Unit II, III, IV, Part B (Unit I, II, VI, VII)

## VISUAL ART

- OCT.** : Art Work on Plaster of Paris/Canvas Painting/Diy Art Work  
**NOV.** : Art Work on Plaster of Paris/Canvas Painting/Diy Art Work  
**DEC.** : Pg. 65 (Human Figure)

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*Art Integrated projects shall be taken up as and when prescribed by CBSE.*

• This Syllabus can be downloaded from our school website : [www.lps-lpc.org](http://www.lps-lpc.org)



## COURSE FOR CLASS X (CBSE) : 2024-25

### I PERIODIC TEST

#### HINDI

- MARCH** : क्षितिज - गद्य खण्ड : नेताजी का चश्मा  
**APRIL** : क्षितिज - काव्य खण्ड : सूर के पद  
गद्य खण्ड : लखनवी अंदाज  
**व्याकरण:** वाच्य, अलंकार (श्लेष, उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण)  
**MAY** : क्षितिज - काव्य खण्ड : आत्मकथ्य  
**कृतिका** : माता का अंचल  
**व्याकरण:** वाक्य भेद (रचना के आधार पर), अपठित गद्यांश व पद्यांश  
**JUNE** : आन्तरिक मूल्यांकन तथा परियोजना कार्य। (निर्धारित उपविषय के आधार पर उ0प्र0  
और अरुणाचल प्रदेश के तुलनात्मक अध्ययन पर फाइल)  
**JULY** : पुनरावृत्ति

#### ENGLISH

- MARCH** : **Literature** : **Prose** : Ch. 1 A Letter To God  
**APRIL** : **Literature** : **Prose** : Ch. 2 Nelson Mandela : Long Walk To  
Freedom  
**Poem** : Dust of Snow, Fire and Ice  
**Supplementary** : Ch. 1 A Triumph of Surgery  
Ch. 2 The Thief's Story  
**Language** : Letter to Editor, Integrated Grammar Exercises  
Reading Comprehension  
**MAY** : **Literature** : **Prose** : Ch. 3 Two Stories About Flying  
**Poem** : A Tiger In The Zoo  
**Supplementary** : Ch. 3 The Midnight Visitor  
**Language** : Integrated Grammar Exercises  
**JUNE + JULY** : **Literature** : **Poem** : How To Tell Wild Animals  
**Activity** : ALS (Listening); Revision

#### MATHEMATICS

- MARCH** : Ch. 1 Real Number  
**APRIL** : Ch. 1 Real Number (contd.), Ch. 2 Polynomials, Ch. 7 Coordinate  
Geometry, Ch. 14 Probability, Ch. 3 Pair of Linear Equations in Two  
Variables  
**Lab Activity** : 2, 3, 31, 32  
**MAY** : Ch. 3. Pair of Linear Equations in Two Variables (contd.),  
Ch. 13. Statistics  
**Lab Activity** : 9, 10  
**JUNE + JULY** : Revision

## PHYSICS

- MARCH** : **Theory** : Reflection of light by curved surfaces
- APRIL** : **Theory** : Images formed by spherical mirrors, Centre of curvature, Principal axis, Principal focus, Focal length, Mirror formula (derivation not required), magnification, Refraction, Laws of refraction, Refractive index  
**Practical** : 1. Determination of focal length of (i) Concave mirror, (ii) Convex lens by obtaining the image of a distant object.
- MAY** : **Theory** : Refraction of light by spherical lens, Image formed by spherical lenses, Lens Formula (derivation not required)  
**Practical** : 2. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
- JUNE** : **Theory** : Applications of spherical mirrors and lenses, Magnification, Power of a Lens  
**Practical** : 3. Finding the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed.  
Revision Test
- JULY** : **Revision**

## CHEMISTRY

- MARCH** : **Ch. 1. Chemical Reactions and Equations (Introduction)** : Chemical reactions and its characteristics + NCERT Activity 1.1 - 1.3 (to be continued)
- APRIL** : **Ch. 1. Chemical Reactions and Equations** : Chemical Equation, Balanced Chemical equations, Implications of a balanced Chemical Equation, Types of Chemical Reactions : Combination, Decomposition, Displacement, Double Displacement, Precipitation, Endothermic and Exothermic Reactions, Oxidation and Reduction, NCERT Activities 1.4 to 1.11  
**Practical** : 1. Performing and observing the following reactions and classifying them into : • Combination Reaction • Decomposition Reaction • Displacement Reaction • Double displacement reaction (i) Action of water on quicklime, (ii) Action of heat on Ferrous Sulphate crystals, (iii) Iron nails kept in Copper Sulphate solution, (iv) Reaction between Sodium Sulphate and Barium Chloride solutions
- MAY** : **Ch. 2. Acids, Bases and Salts (Introduction)** : Their definitions in terms of furnishing of  $H^+$  and  $OH^-$  ions. General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life, NCERT Activities 2.10 to 2.12 (to be continued)  
**Practical** : 2. A. Finding the pH of the following samples by using pH paper/universal indicator : (i) Dilute Hydrochloric Acid (iii) Dilute NaOH Solution (iii) Dilute Ethanoic Acid Solution (iv) Lemon Juice (v) Water (vi) Dilute Sodium Hydrogen Carbonate Solution

## MATHEMATICS

- OCT.** : Ch. 4 Quadratic Equations, Ch. 5 Arithmetic Progressions, Ch. 10 Circles, **Lab Activity** : 4, 5, 6, 15
- NOV.** : Ch. 10 Circles (contd.), Ch. 12. Surface Areas and Volumes  
**Lab Activity** : 19, 20, 21, 22, 23, 24, 25 + Revision
- DEC.** : Revision + **Lab Activity** : 28, 29

## PHYSICS

- OCT.** : **Theory** : Magnetic Field, field Lines, Field due to a current carrying conductor, Field due to current carrying coil or solenoid, Force on current carrying conductor, Fleming's left hand rule,
- NOV.** : **Theory** : Direct current, Alternating current, Frequency of AC, Advantage of AC over DC, Domestic electric circuits
- DEC. + JAN. + FEB.** : **Revision**

## CHEMISTRY

- OCT.** : **Ch. 4. Carbon and Its Compounds** : Covalent Bonding in Carbon Compounds, Versatile Nature of Carbon, Homologous Series, Nomenclature of Carbon Compounds Containing Functional Groups (Halogens, Alcohol, Ketones, Aldehydes, Alkanes and Alkynes), Difference Between Saturated Hydro Carbons and Unsaturated Hydrocarbons, Chemical Properties of Carbon Compounds (Combustion, Oxidation, Addition and Substitution Reaction). NCERT Activities - 4.1 to 4.5 (to be continued)  
**Practical** : 4. Study of the following properties of acetic acid (ethanoic acid) : (i) Odour (ii) Solubility in water (iii) Effect on Litmus (iv) Reaction with  $NaHCO_3$  solution.
- NOV.** : **Ch. 4 Carbon and Its Compounds** : (continued) Ethanol and Ethanoic Acid, Soaps and Detergents. NCERT Activities 4.6 to 4.12  
Revision (for 8 days)
- DEC. + JAN. + FEB.** : **Revision of annual syllabus**

## BIOLOGY

- OCT.** : Ch. 3 Our Environment  
Ch. 4 How Do Organisms Reproduce?  
**Practical** : 3. Studying : (a) Binary fission in *Amoeba* and (b) Budding in Yeast and Hydra with the help of prepared slides.
- NOV.** : Ch. 4 How Do Organisms Reproduce? (contd.),  
Ch. 5 Heredity and Evolution  
**Practical** : 4. Identification of the different parts of an embryo of a dicot seed (pea, gram or red kidney bean).
- DEC.** : **Revision**

## LIFE SKILLS/MORAL SCIENCE

- JULY** : Ch. 4 Smoking  
**AUG.** : Ch. 5 Positive Attitude  
**SEPT.** : Ch. 6 Motivation

## ARTIFICIAL INTELLIGENCE

- JULY** : Part A - Unit IV : Entrepreneurial Skills - II  
Part B - Unit III : Advance Python  
**AUG.** : Part B - Unit IV : Data Science  
Part B - Unit VI : Natural Language Processing

## VISUAL ART

- JULY** : Pg. No. 37 (Quick Sketches of Human Figure-I),  
Different forms of Tie and Dye  
**AUG.** : Pg. No. 44 (Pen and Ink Drawing), Different forms of Tie and Dye  
**SEPT.** : Pg. No. 49 (Still Life - II), Different forms of Tie and Dye/  
Art Work on Plaster of Paris

## PRE BOARD EXAMINATION

(Full Course is included)

### HINDI

- OCT.** : **क्षितिज - काव्य खण्ड** : उत्साह, अट नहीं रही है  
**गद्य खण्ड** : नौबतखाने में इबादत  
**कृतिका** : साना-साना हाथ जोड़ि  
**NOV.** : **क्षितिज - काव्य खण्ड** : यह दंतुरित मुसकान, फसल, संगतकार  
**गद्य खण्ड** : एक कहानी यह भी  
**व्याकरण** : पत्र-लेखन, ई-मेल लेखन, स्ववृत्त लेखन।  
**DEC.** : पुनरावृत्ति।  
**JAN.** : पुनरावृत्ति।

### ENGLISH

- SEPT. + OCT.:** **Literature** : **Prose** : Ch. 8 The Sermon at Benaras  
**Poem** : The Trees, Fog  
**Supplementary** : Ch. 6 The Making of a Scientist  
Ch. 7 The Necklace  
**Language** : Analytical Paragraph, Reading Comprehension  
**NOV.** : **Literature** : **Prose** : Ch. 9 The Proposal  
**Poem** : The Tale of Custard the Dragon,  
For Anne Gregory  
**Supplementary** : Ch. 8 Bholi  
Ch. 9 The Book That Saved the Earth  
**Language** : Letter of Enquiry, Integrated Grammar Exercises,  
Reading Comprehension  
**DEC.** : Revision

- B. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with : (i) Litmus solution (Blue/Red)  
(ii) Zinc Metal (iii) Solid Sodium Carbonate

**JUNE + JULY** : Revision

## BIOLOGY

- MARCH** : **Ch. 1 Life Processes** : Nutrition (Introduction)  
**APRIL** : **Ch. 1 Life Processes** : Nutrition and Respiration  
**Practical** : 1. To prepare a temporary mount of leaf peel to study stomata.  
**MAY** : **Ch. 1 Life Processes** - Excretion  
**Practical** : 2. Experimentally show that carbon di-oxide is given out during respiration.  
**JUNE + JULY** : Revision

## INFORMATION TECHNOLOGY

- MARCH** : **Unit 1 (B)** Digital Documentation  
**APRIL** : **Unit 1 (B)** Digital Documentation (contd.) +  
**Unit 2 (B)** Electronic Spreadsheet  
**MAY** : **Unit 2 (B)** Electronic Spreadsheet (contd.)  
**JUNE** : **Unit 2 (B)** Electronic Spreadsheet (contd.)  
**JULY** : Revision

## SOCIAL SCIENCE

- MARCH** : **Geo.** : Ch. 1 Resources and Development (to be contd.)  
**Civics** : Ch. 1 Power Sharing (to be contd.)  
**APRIL** : **Geo.** : Ch. 1 Resources and Development  
**Civics** : Ch. 1 Power Sharing, Ch. 2 Federalism (to be contd.)  
**History** : Ch. 1 The Rise of Nationalism in Europe  
**Eco.** : Ch. 1 Development (to be contd.)  
**MAY** : **Civics** : Ch. 2 Federalism  
**Eco.** : Ch. 1 Development  
**Geo.** : Ch. 2 Forest and Wildlife Resources, Ch. 3. Water Resources  
**JUNE** : **Eco.** : Ch. 2 Sectors of Indian Economy  
**Project Work** : Consumer Awareness  
**JULY** : Revision and Map Work from Map Practice

## LIFE SKILLS/MORAL SCIENCE

- MARCH + APRIL** : Ch. 1 Goal Setting  
**MAY** : Ch. 2 Time Management  
**JUNE + JULY** : Ch. 3 Etiquette

## ARTIFICIAL INTELLIGENCE

- MARCH** : Part A - Unit III : ICT Skills - II  
**APRIL** : Part A - Unit III : ICT Skills - II (contd.), Part B - Unit I : Introduction to AI  
**MAY** : Part B - Unit II : AI Project Cycle  
**JUNE** : Part A - Unit II : Self Management Skills - II

## VISUAL ART

- MARCH** : Pg. No. 15 (Flowers)  
**APRIL** : Pg. No. 17 (Animals), Any Indian Folk Art (Full size paper)  
**MAY** : Pg. No. 19 (Still Life-I), Any Indian Folk Art  
**JUNE** : Indian Folk Art  
**JULY** : Indian Folk Art

## II PERIODIC TEST

(Course of I Periodic Test is also included)

### HINDI

- JULY** : **क्षितिज - गद्य खण्ड** : बालगोबिन भगत, संस्कृति  
**व्याकरण** : पद-परिचय (contd.)  
**AUG.** : **व्याकरण** : पद-परिचय, विज्ञापन लेखन, अनुच्छेद लेखन  
**क्षितिज - काव्य खण्ड** : राम-लक्ष्मण परशुराम संवाद  
**कृतिका** : मैं क्यों लिखता हूँ  
**SEPT.** : **व्याकरण** : संदेश लेखन, पुनरावृत्ति

### ENGLISH

- JULY** : **Literature** : **Prose** : Ch. 4 From the Diary of Anne Frank  
**Poem** : The Ball Poem  
**Supplementary** : Ch. 4 A Question of Trust  
**Language** : Letter of Order  
**AUG.** : **Literature** : **Prose** : Ch. 5 Glimpses of India,  
Ch. 6 Mijbil the Otter  
Ch. 7 Madam Rides the Bus  
**Poem** : Amanda  
**Supplementary** : Ch. 5 Footprints Without Feet  
**Language** : Letter of Complaint  
**SEPT.** : **Language** : Integrated Grammar Exercises, Reading Comprehension  
**Activity** : ALS (Speaking) Speech; Revision

### MATHEMATICS

- JULY** : Ch. 6 Triangles  
**AUG.** : Ch. 6 Triangles (contd.), Ch. 8 Introduction to Trigonometry,  
Ch. 9 Some Applications of Trigonometry, Ch. 11 Area Related to Circles  
**Lab Activity** : 13, 16, 17, 18  
**SEPT.** : Revision

### PHYSICS

- JULY** : **Theory** : Functioning of a lens in human eye, Defects of vision and their corrections, Refraction of light through a Prism, Dispersion of light, Scattering of light and its applications in daily life  
**Practical** : 4. Tracing the path of the rays of light through a glass prism.

- AUG.** : **Theory** : Electric Current, Potential difference and electric current, Ohm's Law, Resistance, Resistivity, Factors on which the resistance of a conductor depends, Series combination of resistors, Parallel combination of resistors and its applications in daily life.  
**Practical** : 5. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance and plotting a graph between V and I also.  
6. Determination of the equivalent resistance of two resistors when connected in series and parallel.  
**SEPT.** : **Theory** : Heating effect of electric current and its applications in daily life, Electric Power, Interrelation between Power, Voltage, Current and Resistance, Revision + Revision Test

### CHEMISTRY

- JULY** : **Ch. 2 Acids, Bases and Salts** : Preparation and uses of Sodium Hydroxide, Bleaching Powder, Baking Soda, Washing Soda and Plaster of Paris, NCERT Activities 2.13 to 2.15  
**AUG.** : **Ch. 3. Metals and Non-metals** : Properties of Metals and Non-metals, Reactivity Series, Formation and Properties of Ionic Compounds, Basic Metallurgical Processes, Corrosion and Its Prevention, NCERT Activities 3.1 to 3.14 + Revision  
**Practical**: 3. To observe the action of Zn, Fe, Cu and Al metals on following salts (a)  $ZnSO_4(aq)$  (b)  $FeSO_4(aq)$  (c)  $CuSO_4(aq)$  (d)  $Al_2(SO_4)_3(aq)$  + Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.  
**SEPT.** : **Revision of I Periodic + II Periodic**

### BIOLOGY

- JULY** : **Ch. 1 Life Processes** : Transportation  
**AUG.** : Ch. 2. Control and Coordination  
**SEPT.** : Revision

### INFORMATION TECHNOLOGY

- JULY** : **Unit 3 (B)** Database Management System  
**AUG.** : **Unit 3 (B)** Database Management System (contd.) +  
**Unit 3 (B)** Web Application and Security  
**SEPT.** : **Unit 3 (B)** Web Application and Security (contd.)  
II Periodic Test (I Periodic Test + Unit 3 (B) + Unit 4 (B))

### SOCIAL SCIENCE

- JULY** : **History** : Ch. 2 Nationalism in India  
**Geo.** : Ch. 4 Agriculture  
**AUG.** : **History** : Ch. 5 The Age of Industrialization  
**Civics** : Ch. 4 Gender, Religion and Caste  
**Geo.** : Ch. 5 Mineral and Energy Resources  
**Eco.** : Ch. 4 Globalisation and the Indian Economy  
**SEPT.** : Revision and Map Work from Map Practice