

**GRADE X CYCLEWISE CURRICULUM 2023-24**

**ENGLISH LANGUAGE AND LITERATURE (CODE NO. 184)**

<b>MAIN READER: FIRST FLIGHT (NCERT BOOK)</b> <b>SUPPLEMENTARY READER: FOOTPRINTS WITHOUT FEET (NCERT BOOK)</b>		
CYCLE	CYCLE DATES	TOPIC
	<b>Reading: Comprehension Passages</b>	
<b>I</b>	<b>1<sup>st</sup> Mar '23 - 29<sup>th</sup> Mar '23</b>	<b>Fiction-</b> A Letter to God, Nelson Mandela <b>Poem-</b> Dust of Snow <b>S. Reader-</b> A Triumph of Surgery <b>Writing/ Grammar-</b> Cloze Passages (Correct/incorrect), Subject Verb Concord/ Modals
<b>II</b>	<b>3<sup>rd</sup> Apr'23 - 29<sup>th</sup> Apr '23</b>	<b>Fiction-</b> Two Stories about Flying, From the Diary of Anne Frank <b>Poem-</b> Fire and Ice <b>S. Reader-</b> The Thief's Story <b>Writing-</b> Analytical Paragraph
<b>III</b>	<b>1<sup>st</sup> May'23- 26<sup>th</sup> May'23</b>	<b>Fiction-</b> The Hundred Dresses – I, The Hundred Dress – II <b>Poem-</b> A Tiger in the Zoo, How to Tell Wild Animals <b>S. Reader-</b> The Midnight Visitor
<b>IV</b>	<b>3<sup>rd</sup> July'23 - 31<sup>st</sup> July'23</b>	<b>Fiction-</b> Glimpses of India <b>Poem-</b> The Ball Poem, Amanda <b>S. Reader-</b> A Question of Trust <b>Grammar-</b> Determiners, Tenses
<b>V</b>	<b>1<sup>st</sup> Aug'23 - 1<sup>st</sup> Sep'23</b>	<b>Fiction-</b> The Proposal, Mijbil the Otter <b>Poem-</b> Animals, Trees <b>S. Reader-</b> Footprints without Feet <b>Writing/ Grammar-</b> Reported Speech
<b>VI</b>	<b>Half Yearly Examination (6<sup>th</sup> Sep'23 - 18<sup>th</sup> Sep'23)</b>	
<b>VII</b>	<b>19<sup>th</sup> Sep'23 - 29<sup>th</sup> Sep'23</b>	<b>Poem-</b> Fog <b>S. Reader-</b> The Making of a Scientist, The Necklace, The Hack Driver
<b>VIII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b>Fiction-</b> Madam Rides the Bus <b>Poem-</b> The Tale of Custard the Dragon <b>Writing/Grammar-</b> Formal Letter, Prepositions
<b>IX</b>	<b>2<sup>nd</sup> Nov '23 – 30<sup>th</sup> Nov '23</b>	<b>Fiction-</b> Sermon at Benares, Bholi <b>Poem-</b> For Anne Gregory <b>S. Reader-</b> The Book that Saved the Earth
<b>X</b>	<b>Pre-Board Examination 1<sup>st</sup> Dec-18<sup>th</sup> Dec'23</b> <b>Subject Enrichment Tests &amp; Remedial Classes w.e.f 12<sup>th</sup> Jan'23</b>	

**SECOND LANGUAGE**  
**FRENCH (CODE NO.018)**

**BOOK – ENTRE JEUNE-2**

CYCLE	CYCLE DATES	TOPIC/CHAPTER
<b>TERM I</b>		
<b>I</b>	<b>1<sup>st</sup> Mar'23 – 29<sup>th</sup> Mar'23</b>	L-2 APRÈS LE BAC <ul style="list-style-type: none"> <li>• Le futur antérieur.</li> <li>• La forme nominale</li> <li>• Le système d'éducation en France</li> </ul> L-3 CHERCHER DU TRAVAIL <ul style="list-style-type: none"> <li>• Les pronoms relatifs simples et composés.</li> <li>• Le monde du travail, l'ANPE –</li> <li>• Décrire la carrière professionnelle.'</li> </ul>
<b>II</b>	<b>3<sup>rd</sup> Apr'23 – 29<sup>th</sup> Apr'23</b>	L-4 LE PLAISIR DE LIRE <ul style="list-style-type: none"> <li>• C.V.</li> <li>• Le plus-que-parfait.</li> <li>• S'inscrire à la bibliothèque</li> <li>• Raconter un événement/ une fable</li> </ul>
<b>III</b>	<b>1<sup>st</sup> May'23 – 26<sup>th</sup> May'23</b>	L-5 LES MÉDIAS <ul style="list-style-type: none"> <li>• Revision of all the pronouns</li> <li>• Révision de la grammaire (Les temps, Les pronoms personnels)</li> </ul>
<b>IV</b>	<b>3<sup>rd</sup> July'23 – 31<sup>st</sup> July'23</b>	L-6 CHACUN SES GOÛTS <ul style="list-style-type: none"> <li>• Les pronoms démonstratifs simples et composés.</li> <li>• Le pronom- on - L'emphase : « C'est qui/que... »</li> </ul>
<b>V</b>	<b>1<sup>st</sup> Aug'23 – 1<sup>th</sup> Sept'23</b>	L-7 EN PLEINE FORME <ul style="list-style-type: none"> <li>• Les Pronoms Possessifs</li> <li>• La Santé</li> <li>• La sécurité sociale</li> </ul>
<b>HALF YEARLY EXAMINATION (6<sup>th</sup> September – 18<sup>th</sup> September)</b>		
<b>TERM II</b>		
<b>VII</b>	<b>19<sup>th</sup> Sept'23 – 29<sup>th</sup> Sept'23</b>	L-8 L'ENVIRONNEMENT <ul style="list-style-type: none"> <li>• Le subjonctif</li> </ul>
<b>VIII</b>	<b>3<sup>rd</sup> Oct'23 – 31<sup>st</sup> Oct'23</b>	L-10 <ul style="list-style-type: none"> <li>• Le conditionnel passé - Si clauses. - Ne...pas+infinitif,</li> </ul>
<b>IX</b>	<b>2<sup>nd</sup> Nov'23 – 30<sup>st</sup> Nov'23</b>	<ul style="list-style-type: none"> <li>• Le discours rapporté.</li> <li>• Le système politique en France et en Inde</li> </ul>
<b>Pre-Board Examination (1<sup>st</sup> Dec'23 – 18<sup>th</sup> Dec'23)</b>		
<b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>		

**SPANISH (CODE NO.096)**

**BOOK – AULA INTERNACIONAL 2**

CYCLE	CYCLE DATES	TOPIC/CHAPTER
<b>TERM I</b>		
<b>I</b>	<b>1<sup>st</sup> Mar'23 – 29<sup>th</sup> Mar'23</b>	Presente de Indicativo; Gerundio; Pretérito Perfecto e Indefinido Tarea Escrita – 2 topics
<b>II</b>	<b>3<sup>rd</sup> Apr'23 – 29<sup>th</sup> Apr'23</b>	Contrast <i>muy/mucho</i> Revision of the concept of comparison of equality, superiority and inferiority Tarea Escrita – 1 topic

<b>III</b>	<b>1<sup>st</sup> May'23 – 26<sup>th</sup> May'23</b>	Contrast between <i>pretérito perfecto</i> , <i>pretérito indefinido</i> and <i>imperfecto de indicativo</i> ; El imperativo Tarea Escrita – 2 topics
<b>IV</b>	<b>3<sup>rd</sup> July'23 – 31<sup>st</sup> July'23</b>	Pronombres de objeto direct e indirecto Negative command (singular/plural) + direct/indirect object pronoun Literatura: Lope de Vega, Gustavo Adolfo Bécquer, Camilo José Cela
<b>V</b>	<b>1<sup>st</sup> Aug'23 – 1<sup>th</sup> Sept'23</b>	Prepositions: Por/Para Impersonal 'se' Las perífrasis Use of the verb Doler and expressions with Tener dolor de + sustantivo
<b>HALF YEARLY EXAMINATION (6<sup>th</sup> September – 18<sup>th</sup> September)</b>		
<b>TERM II</b>		
<b>VII</b>	<b>19<sup>th</sup> Sept'23 – 29<sup>th</sup> Sept'23</b>	Idea of the subjunctive mood; El future Tarea Escrita
<b>VIII</b>	<b>3<sup>rd</sup> Oct'23 – 31<sup>st</sup> Oct'23</b>	Literatura: Gabriel García Márquez, Jorge Luis Borges, Mario Vargas Llosa, Nicolás Guillén General Knowledge on Hispanic Countries, Culture & Civilisation
<b>IX</b>	<b>2<sup>nd</sup> Nov'23 – 30<sup>st</sup> Nov'23</b>	Simple conditional
<b>Pre-Board Examination (1<sup>st</sup> Dec'23 – 18<sup>th</sup> Dec'23)</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>		

**GERMAN (CODE NO.020)**

<b>BOOK – BESTE FREUNDE B1.1</b>		
<b>CYCLE</b>	<b>CYCLE DATES</b>	<b>TOPIC/CHAPTER</b>
<b>TERM I</b>		
<b>I</b>	<b>1<sup>st</sup> Mar'23 – 29<sup>th</sup> Mar'23</b>	Lektion – 6, Magst du grüne Bohnen? Indirekte Frage mit ob und W-Frage Nullartikel + Adjektiv im Nominativ und Akkusativ
<b>II</b>	<b>3<sup>rd</sup> Apr'23 – 29<sup>th</sup> Apr'23</b>	Ein Thema präsentieren Vorteile und Nachteile angeben
<b>III</b>	<b>1<sup>st</sup> May'23 – 26<sup>th</sup> May'23</b>	Lektion 7: Die App, die den Dieb findet Partizip Perfekt Präteritum
<b>IV</b>	<b>3<sup>rd</sup> July'23 – 31<sup>st</sup> July'23</b>	Lektion 7: Die App, die den Dieb findet Lokale Präpositionen Relativpronomen
<b>V</b>	<b>1<sup>st</sup> Aug'23 – 1<sup>th</sup> Sept'23</b>	Adjektive: Komparativ und Superlativ Wiederholung
<b>HALF YEARLY EXAMINATION (6<sup>th</sup> September – 18<sup>th</sup> September)</b>		
<b>TERM II</b>		
<b>VII</b>	<b>19<sup>th</sup> Sept'23 – 29<sup>th</sup> Sept'23</b>	Lektion 8: Einfach Sprachen lernen Konjunktion: obwohl Plusquamperfekt
<b>VIII</b>	<b>3<sup>rd</sup> Oct'23 – 31<sup>st</sup> Oct'23</b>	Lektion 9: Deine Hilfe zählt Relativpronomen: wo, was Konjunktion als Konjunktion: nachdem
<b>IX</b>	<b>2<sup>nd</sup> Nov'23 – 30<sup>st</sup> Nov'23</b>	Wiederholung
<b>Pre-Board Examination (1<sup>st</sup> Dec'23 – 18<sup>th</sup> Dec'23)</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>		

**HINDI -B (CODE NO. 085)**

- स्तकें :- 1 स्पर्श भाग -2  
2. सार्थक हिंदी व्याकरण  
3. संचयन

संपादक :- एन. सी. ई. आर. टी  
संपादक :- सरस्वती पब्लिकेशन  
संपादक :- एन. सी. ई. आर. टी

**हिन्दी पाठ्यक्रम योजना, HINDI-B (085) ( 2023-2024)**

S.NO	CYCLE NO	CYCLE DATES	TOPICS
1	I	1 <sup>st</sup> Mar '23 TO 29 <sup>th</sup> Mar '23	पाठ – बड़े भाई साहब , पाठ – कबीर की साखी व्याकरण – पदबंध , अपठित गद्यांश , सृजनात्मक लेखन
2	II	3 <sup>rd</sup> Apr '23 TO 29 <sup>th</sup> Apr '23	पाठ – डायरी का पन्ना , पाठ – मीरा के पद (पद्य) व्याकरण – वाक्य के अंग, ( सरल, संयुक्त, मिश्र ) पत्र लेखन – औपचारिक पत्र , सूचना लेखन
3	III	1 <sup>st</sup> May '23 TO 26 <sup>th</sup> May '23	पाठ – ताँतारा वामीरों कथा (गद्य) , पाठ– तोप (पद्य) व्याकरण – मुहावरे , अनुच्छेद लेखन , लघु कथा लेखन
4	IV	3 <sup>rd</sup> July '23 TO 31 <sup>st</sup> July '23	पाठ – तीसरी कसम के शिल्पकार , पाठ – मनुष्यता व्याकरण – तत्पुरुष ,कर्मधारय समास ,अव्ययीभाव समास अपठित गद्यांश , ई मेल लेखन , विज्ञापन लेखन
5	V	1 <sup>st</sup> Aug '23 TO 1 <sup>th</sup> Sept '23	पाठ– पर्वत प्रदेश में पावस (पद्य) पाठ – हरिहर काका (संचयन) अनुच्छेद लेखन , कहानी लेखन , समास
6	VI	Half Yearly Exam (6 <sup>th</sup> Sept-18 <sup>th</sup> Sept)	अर्धवार्षिक परीक्षा
7	VII	19 <sup>th</sup> Sept '23 TO 29 <sup>th</sup> Sept '23	पाठ – अब कहाँ दूसरों के दुख से दुखी होने वाले पाठ – आत्मत्राण (पद्य)
8	VIII	3 <sup>rd</sup> Oct'23 TO 31 <sup>st</sup> Oct'23	पाठ – पतझड़ में टूटी पत्तियाँ गिन्नी का सोना , झेन की देन
9	IX	2 <sup>nd</sup> Nov'23 TO 30 <sup>st</sup> Nov'23	पाठ – कारतूस (गद्य) पाठ – कर चले हम फिदा
10	X	Pre-Board Examination 1 <sup>st</sup> Dec'23 TO 18 <sup>th</sup> Dec'23	पूर्व -परीक्षा

**MATHEMATICS (CODE NO. 041)**

CYCLE NO	CYCLE DATES	TOPICS
I	1 <sup>st</sup> Mar '23 – 29 <sup>th</sup> Mar '23	Polynomials Real numbers Pairs of linear equations in two variables
II	3 <sup>rd</sup> Apr '23 – 29 <sup>th</sup> Apr '23	Co-ordinate geometry Triangles Introduction to trigonometry
III	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	Applications of trigonometry Arithmetic progressions
IV	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July '23	Quadratic equation Probability
V	1 <sup>st</sup> Aug '23 – 1 <sup>st</sup> Sept '23	Revision paper half yearly(solved) Revision paper half yearly (unsolved)
VI	<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>	
VII	19 <sup>th</sup> Sept '23 – 29 <sup>th</sup> Sept '23	Statistics
VIII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	Areas related to circles
IX	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	Surface areas and volumes Constructions Circles
X		Pre-Board Examination 1 <sup>st</sup> Dec'23 -18 <sup>th</sup> Dec'23 Subject Improvement Tests & Remedial Classes w.e.f. 12 <sup>th</sup> Jan'24

**SCIENCE (CODE NO. 086)**

**PHYSICS**

<b>TEXTBOOK REFERENCE – SCIENCE TEXTBOOK CLASS X PUBLISHER- NCERT</b>		
CYCLE NO.	CYCLE DATES	CONTENT
I	1 <sup>st</sup> Mar '23 – 29 <sup>th</sup> Mar '23	<b>Chapter – 12: Electricity</b> 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, Heating effect of electric current and its applications in daily life, Electric power, Interrelation between P, V, I and R
II	3 <sup>rd</sup> Apr '23 – 29 <sup>th</sup> Apr '23	<b>Chapter – 13: Magnetic effects of electric current</b> Magnetic field & Field lines, Field due to current carrying straight conductor, Field due to current carrying coil or solenoid, Force on current carrying conductor, Fleming's Left-Hand Rule, Electromagnetic induction

III	1 <sup>st</sup> May '23 –26 <sup>th</sup> May '23	<b>Chapter – 13: Magnetic effects of electric current</b> Induced potential difference, Induced current, Fleming's Right-Hand Rule Direct current, Alternating current, Frequency of AC, Advantages of AC over DC, Domestic electric circuits
IV	3 <sup>rd</sup> July '23 –31 <sup>st</sup> July '23	<b>Chapter – 10: Reflection and refraction</b> Laws of Reflection of light, Reflection of light by curved surfaces, Image formation by spherical mirrors, Sign convention for reflection, Mirror formula (Derivation not required), Magnification., Uses of concave and convex mirrors
V	1 <sup>st</sup> Aug '23 – 1 <sup>st</sup> Sept '23	Refraction, Laws of Refraction of light, Refractive index, Refraction through a rectangular glass slab, Refraction of light by spherical lens, Image formation by spherical lenses, Lens formula (Derivation not required), Magnification & Power of a lens <b>REVISION FOR HALF YEARLY EXAMINATION</b>
VI	6 <sup>th</sup> Sept-18 <sup>th</sup> Sept	<b>Half Yearly Examination</b>
VII	19 <sup>th</sup> Sept '23 –29 <sup>th</sup> Sept '23	<b>Chapter – 11: Human eye and colourful world</b> Functioning of a lens in human eye, Defects of vision, Myopia, Hypermetropia, Presbyopia, Astigmatism, Corrections of the defects of vision
VIII	3 <sup>rd</sup> Oct'23 – 31 <sup>st</sup> Oct'23	Refraction of light through a prism, Atmospheric refraction twinkling of stars, Advance sun rise and delayed sun set, scattering of light, Tyndall effect, Natural phenomenon scattering of light.
IX	2 <sup>nd</sup> Nov'23 – 30 <sup>th</sup> Nov'23	<b>Chapter – 14: Sources of energy</b> Different forms of energy, Conventional and non-conventional sources of energy, Fossil fuels, Biogas, Water and tidal energy, nuclear energy, Renewable versus non-renewable sources of energy
X	1 <sup>st</sup> Dec'23 – 18 <sup>th</sup> Dec'23	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>

### CHEMISTRY

CYCLE NO	CYCLE DATES	CHAPTER/TOPIC
I	1 <sup>st</sup> Mar '23–29 <sup>th</sup> Mar '23	<b>Chapter 1- Chemical Substances - Nature and Behavior</b> <b>Chemical reactions:</b> Chemical equation, Balanced chemical equation, implications of a balanced chemical equation.
II	3 <sup>rd</sup> Apr '23 –29 <sup>th</sup> Apr '23	<b>Continued..</b> Types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction. <b>Chapter 2-Acids, bases and salts:</b> Their definitions in terms of furnishing of H <sup>+</sup> and OH <sup>-</sup> ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life;

III	1 <sup>st</sup> May '23–26 <sup>th</sup> May '23	<b>Continued..</b> Preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris. <b>Chapter 4-Carbon compounds:</b> Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series.
IV	3 <sup>rd</sup> July '23 –31 <sup>st</sup> July '23	<b>Continued..</b> Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons.
V	1 <sup>st</sup> Aug '23 – 1 <sup>th</sup> Sept '23	<b>Continued Chapter 4</b> Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.
VI	<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>	
VII	19 <sup>th</sup> Sept'23–29 <sup>th</sup> Sept '23	<b>Chapter 3-Metals and non-metals:</b> Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds;.
VIII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	Basic metallurgical processes; Corrosion and its prevention <b>Chapter 5-Periodic classification of elements:</b> Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table)
IX	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	<b>Continued Chapter 5-</b> Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties
X	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>	

### **BIOLOGY**

<b>TEXT BOOK REFERENCE – NCERT</b> <b>PUBLISHER- NCERT Publication</b>		
<b>CYCLE NO.</b>	<b>CYCLE DATES</b>	<b>CONTENT</b>
I	1 <sup>st</sup> Mar '23 – 29 <sup>th</sup> Mar '23	<b><u>Unit II: World of Living</u></b> <b>Chapter-6 Life processes :</b> "Living Being". Basic concept of nutrition. Nutrition in Plant and Human Being Basic concept of Respiration Basic concept of Transportation Transportation in Plant and Human Being Basic concept of Excretion

		<p>Structure of Excretion system of Human Being</p> <p><b>Practical 1-</b> To prepare Temporary Mount peel of stomata from a leaf peel. <b>Practical 2-</b>To show experimentally that carbon dioxide is given out during respiration</p>
<b>II</b>	<b>3<sup>rd</sup> Apr '23 – 29<sup>th</sup> Apr '23</b>	<p><b><u>Unit II: World of Living</u></b></p> <p><b>Chapter – 7- Control and Coordination</b></p> <p>Control and co-ordination in animals and plants</p> <p>Tropic movements in plants;</p> <p>Response to stimulus</p> <p>Function of different hormones.</p> <p>Endocrine glands in Human beings.</p> <p>Introduction to plant hormones</p> <p>Nervous system;</p> <p>Structure and function of neuron</p> <p>voluntary, involuntary and reflex arc</p> <p>Reflex action</p> <p>Chemical co-ordination,</p> <p>Animal hormones</p>
<b>III</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	<p><b><u>Unit II: World of Living</u></b></p> <p><b>Chapter- 8 How do organisms Reproduce?</b></p> <p>Reproduction in animals and plants (asexual and sexual)</p> <p>DNA and its importance.</p> <p>Asexual and Sexual Reproduction in Animals and Plants.</p> <p>Sexual Reproduction in Human</p> <p>Sexually transmitted disease</p> <p>Reproductive health-need for and methods of family planning.</p> <p>Safe sex vs HIV/AIDS. Child bearing and women's health.</p> <p><b>Practical 3:</b> To study the binary fission in Amoeba and Budding in Yeast and Hydra with the help of Permanent slides.</p> <p><b>Practical 4:</b> To Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).</p>
<b>IV</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July '23</b>	<p><b><u>Unit II: World of Living</u></b></p> <p><b>Chapter- 9 Heredity and Evolution :</b></p> <p>Heredity</p> <p>How do traits get Expressed.</p> <p>Sex Determination.</p>
<b>V</b>	<b>1<sup>st</sup> Aug '23 – 1<sup>th</sup> Sept '23</b>	<p><b>Chapter- 9 Heredity and Evolution :</b></p> <p>Brief introduction: Basic concepts of evolution.</p> <p>Speciation, Acquired and inheritable traits</p> <p>Analogous and Homologous organs</p> <p>Tracing evolutionary relationships-Fossils</p> <p>Evolution by stages</p>
<b>VI</b>	<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>	



<b>VII</b>	<b>19<sup>th</sup> Sept '23 – 29<sup>th</sup> Sept '23</b>	<b><u>Unit IV: Natural Resources</u></b> <b>Chapter- 15 Our environment</b> Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances
<b>VIII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	<b><u>Unit IV: Natural Resources</u></b> <b>Chapter-16 Management of Natural Resources.</b> Conservation of natural resources. Management of natural resources. Conservation and judicious use of natural resources. Forest and wild life, coal and petroleum conservation Examples of people's participation for conservation of natural resources.
<b>IX</b>	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	Regional environment Big dams: advantages and limitations; alternatives Water harvesting. Sustainability of natural resources. Water management and rain water harvesting. Becoming environmental Friendly
<b>X</b>	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>	

**SOCIAL SCIENCE (CODE NO. 087)**  
**GEOGRAPHY**

<b>CYCLE NO</b>	<b>CYCLE DATES</b>	<b>TOPICS</b>
<b>I</b>	<b>1<sup>st</sup> Mar '23 – 29<sup>th</sup> Mar '23</b>	Resources and development
<b>II</b>	<b>3<sup>rd</sup> Apr '23 – 29<sup>th</sup> Apr '23</b>	Forest and wildlife resources
<b>III</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	Water resources
<b>IV</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July '23</b>	Agriculture
<b>V</b>	<b>1<sup>st</sup> Aug '23 – 1<sup>st</sup> Sept '23</b>	Minerals and energy resources
<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>		
<b>VII</b>	<b>19<sup>th</sup> Sept '23 – 29<sup>th</sup> Sept '23</b>	Manufacturing industries
<b>VIII</b>	<b>3<sup>rd</sup> Oct'23 - 31<sup>st</sup> Oct'23</b>	Manufacturing industries
<b>IX</b>	<b>2<sup>nd</sup> Nov'23 - 30<sup>st</sup> Nov'23</b>	Lifelines of national economy
<b>X</b>	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>	

**HISTORY**

<b>TEXTBOOK REFERENCE – Contemporary India PUBLISHER-NCERT</b>		
<b>CYCLE</b>	<b>CYCLE DATES</b>	<b>CONTENT</b>
<b>I</b>	<b>1<sup>st</sup> Mar '23 – 29<sup>th</sup> Mar '23</b>	Nationalism in europe
<b>II</b>	<b>3<sup>rd</sup> Apr '23 – 29<sup>th</sup> Apr '23</b>	Nationalism in europe, nationalism in india
<b>III</b>	<b>1<sup>st</sup> May '23 – 26<sup>th</sup> May '23</b>	Nationalism in india
<b>IV</b>	<b>3<sup>rd</sup> July '23 – 31<sup>st</sup> July '23</b>	Making of the global world

V	1 <sup>st</sup> Aug '23 – 1 <sup>th</sup> Sept '23	Making of the global world
VI	<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>	
VII	19 <sup>th</sup> Sept '23 – 29 <sup>th</sup> Sept '23	The age of industrialisation
VIII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	The age of industrialisation Print, culture and the modern world
IX	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	Print, culture and the modern world
X	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>	

### POLITICAL SCIENCE

<b>TEXTBOOK REFERENCE –DEMOCRATIC POLITICS II</b> <b>PUBLISHER-NCERT</b>		
<b>CYCLE</b>	<b>CYCLE DATES</b>	<b>CONTENT</b>
I	1 <sup>st</sup> Mar '23 – 29 <sup>th</sup> Mar '23	Power sharing
II	3 <sup>rd</sup> Apr '23 – 29 <sup>th</sup> Apr '23	Federalism
III	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	Federalism
IV	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July '23	Gender, religion and caste
V	1 <sup>st</sup> Aug '23 – 1 <sup>th</sup> Sept '23	Gender, religion and caste
VI	<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>	
VII	19 <sup>th</sup> Sept '23 – 29 <sup>th</sup> Sept '23	Political parties
VIII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	Outcomes of democracy
IX	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	Revision
X	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>	

### ECONOMICS

<b>CYCLE NO</b>	<b>CYCLE DATES</b>	<b>REMARKS</b>
I	1 <sup>st</sup> Mar '23 – 29 <sup>th</sup> Mar '23	Development
II	3 <sup>rd</sup> Apr '23 – 29 <sup>th</sup> Apr '23	Sectors of the economy
III	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	Sectors of the economy
IV	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July '23	Money and credit
V	1 <sup>st</sup> Aug '23 – 1 <sup>st</sup> Sept '23	Money and credit
<b>Half Yearly Examination (6<sup>th</sup> Sept-18<sup>th</sup> Sept)</b>		
VII	19 <sup>th</sup> Sept '23 – 29 <sup>th</sup> Sept '23	Globalisation
VIII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	Globalisation
IX	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	Revision
X	<b>Pre-Board Examination 1<sup>st</sup> Dec'23 -18<sup>th</sup> Dec'23</b> <b>Subject Improvement Tests &amp; Remedial Classes w.e.f. 12<sup>th</sup> Jan'24</b>	

**ARTIFICIAL INTELLIGENCE (CODE NO. 417)**

CYCLE NO.	CYCLE DATES	TOPIC	SUB TOPICS
I	1 <sup>st</sup> Mar '23 – 29 <sup>th</sup> Mar '23	CH-1 Introduction to Artificial Intelligence (AI) Foundational Concepts	What is Intelligence? Decision Making. How do you make decisions? Make your choices! What is Artificial Intelligence and what is not? ,Introduction to AI and related terminologies.
II	3 <sup>rd</sup> Apr '23 – 29 <sup>th</sup> Apr '23	CH-1 Introduction to Artificial Intelligence (AI) Basics of AI	Introducing AI, ML & DL. Introduction to AI Domains (Data, CV & NLP) Applications of AI – A look at Real life AI implementations. <b>Session:</b> AI Ethics
III	1 <sup>st</sup> May '23 – 26 <sup>th</sup> May '23	Ch-2 AI Project Cycle	Introduction to AI Project Cycle,Understanding Problem Scoping & Sustainable Development Goals Simplifying Data Acquisition Visualizing Data
IV	3 <sup>rd</sup> July '23 – 31 <sup>st</sup> July '23	Ch-3 Advance Python	Python Revision*, Jupyter Noteboks*, Python for Data Science* Data Science: Applications of Data Science, Data Access, Types of Data , K-Nearest Neighbor Model
V	1 <sup>st</sup> Aug '23 – 1 <sup>th</sup> Sept '23	CH-4 DATA SCIENCES & REVISION	What is data science? Applications of Data Science, Basic statistics of Python
VI	Half Yearly Examination (6 <sup>th</sup> Sept-18 <sup>th</sup> Sept)		
VII	19 <sup>th</sup> Sept '23 – 29 <sup>th</sup> Sept '23	CH-6 Natural Language Processing	Introduction, Chatbot, Language Differences, Data Processing Introduction to Natural Language Processing ,NLP Applications
VIII	3 <sup>rd</sup> Oct'23 - 31 <sup>st</sup> Oct'23	Ch-7 Evaluation	Introduction to Model Evaluation Confusion Matrix ,Understanding Accuracy, Precision, Recall & F1 Score ,Practice Evaluation
IX	2 <sup>nd</sup> Nov'23 - 30 <sup>st</sup> Nov'23	CH-5 COMPUTER VISION	Introduction, Applications, CV Concepts, Images and Pixels.
X	Pre-Board Examination 1 <sup>st</sup> Dec'23 -18 <sup>th</sup> Dec'23 Subject Improvement Tests & Remedial Classes w.e.f. 12 <sup>th</sup> Jan'24		
Pre-Board Examination (13 <sup>th</sup> Jan'24-25 <sup>th</sup> Jan'23), Remedial Classes (27 <sup>th</sup> Jan'24 Onwards)			