

# Annual Syllabus

## Session : 2023-24

### Class : X

SUBJECT : English (SUBJECT CODE 184)		
Books Prescribed : First Flight , Footprint without feet		
Month	Chapter No. and Name	Activity / Project/ Practical
<b>March</b>          <b>April</b>          <b>May</b>	FIRST FLIGHT - Ch. 1: A Letter to God Poems: Dust of Snow, Fire And Ice FOOTPRINTS WITHOUT FEET- Ch.1: A Triumph OF Surgery, Ch.2: The Thief's Story GRAMMAR - Determiners, Subject-verb Agreement  Passive Voice, Gap Filling, Cloze Passage, Editing, Integrated Grammar WRITING - Formal Letter	<b>Debate Writing</b> <b>Notice Writing</b> <b>Letter Writing</b> <b>Article Writing</b>
<b>July</b>	FIRST FLIGHT - Ch.2: Nelson Mandela: Long Walk to freedom, Ch.3: Two Stories about Flying • His First Flight • Black Aeroplane Poems: A Tiger in the Zoo, How to tell Wild Animals, The Ball Poem FOOTPRINTS - Ch.3: The Midnight Visitor, Ch.4: A Question of Trust WITHOUT FEET GRAMMAR - Tenses, Modals, Dialogue Writing, Integrated Grammar WRITING - Formal Letter	<b>Write a biography on Nelson Mandela</b>
<b>August</b>	FIRST FLIGHT - Ch.4: From the Diary of Anne Frank, Ch.5: The Hundred Dresses-I, Ch.6: The Hundred Dresses-II Poems: Amanda!, Animals FOOTPRINTS - Ch.5: Footprints Without Feet, Ch.6: The Making of a WITHOUT FEET Scientist GRAMMAR - Reported Speech, Clauses, Prepositions WRITING -	PPT on hundred dresses  Create a prop of dress as per your creativity the way Wanda did

	Formal Letter, Data Interpretation	
<b>September</b>	FIRST FLIGHT - Ch.7 Glimpses of India, Ch.8: Mijbil the Otter Poems: The Trees, Fog FOOTPRINTS - Ch.7: The Necklace, Ch.8: The Hack Driver WITHOUT FEET GRAMMAR - Integrated Grammar WRITING - Data Interpretation (Revision)	Group Discussion
<b>October</b>	Revision for Half Yearly Exams	Debate
<b>November</b>	FIRST FLIGHT - CH.9: Madam Rides The Bus, Ch.10: The Sermon at Benaras , CH. 11: The Proposal Poems: The Tale of Custard the Dragon, For Anne Gregory FOOTPRINTS - Ch.9: Bholi, Ch. 10: The Book that Saved the Earth WITHOUT FEET GRAMMAR - Integrated Grammar WRITING - Formal Letter (Revision)	JAM - Just a minute
<b>December</b>	Full Syllabus Revision	ASL
<b>January</b>	Full Syllabus Revision	ASL
<b>February</b>	Full Syllabus Revision	ASL

#### Syllabus for Assessment 2023-24

	Assessment	Syllabus of Assessment	Practical/Project
<b>Term - 1</b>	<b>PT-1</b>	FIRST FLIGHT - Ch. 1: A Letter to God Poems: Dust of Snow, Fire And Ice FOOTPRINTS - Ch.1: A Triumph OF Surgery, Ch.2: The Thief's Story WITHOUT FEET GRAMMAR - Determiners, Subject-verb Agreement, Passive Voice, Gap Filling, Cloze Passage, Editing, Integrated Grammar WRITING - Formal Letter	c
	<b>PT-2</b>	- FIRST FLIGHT - Ch.7 Glimpses of India, Ch.8: Mijbil the Otter Poems: The Trees, Fog FOOTPRINTS - Ch.7: The Necklace, Ch.8: The Hack Driver WITHOUT FEET GRAMMAR - Integrated Grammar WRITING - Data Interpretation (Revision)	Group Discussion

<b>Term - 2</b>	<b>Half Yearly</b>	FIRST FLIGHT - Ch.2: Nelson Mandela: Long Walk to freedom, Ch.3: Two Stories about Flying • His First Flight • Black Aeroplane Poems: A Tiger in the Zoo, How to tell Wild Animals, The Ball Poem FOOTPRINTS - Ch.3: The Midnight Visitor, Ch.4: A Question of Trust WITHOUT FEET GRAMMAR - Tenses, Modals, Dialogue Writing, Integrated Grammar WRITING - Formal Letter FIRST FLIGHT - Ch.4: From the Diary of Anne Frank, Ch.5: The Hundred Dresses-I, Ch.6: The Hundred Dresses-II Poems: Amanda!, Animals FOOTPRINTS - Ch.5: Footprints Without Feet, Ch.6: The Making of a WITHOUT FEET Scientist GRAMMAR - Reported Speech, Clauses, Prepositions WRITING - Formal Letter, Data Interpretation	Creative Writing
	<b>PT-3</b>	FIRST FLIGHT - CH.9: Madam Rides The Bus, Ch.10: The Sermon at Benaras , CH. 11: The Proposal Poems: The Tale of Custard the Dragon, For Anne Gregory FOOTPRINTS - Ch.9: Bholi, Ch. 10: The Book that Saved the Earth WITHOUT FEET GRAMMAR - Integrated Grammar WRITING - Formal Letter (Revision)	Extempore  JAM - Just a minute  Debate
	<b>Annual Exam</b>	Full Syllabus	ASL

**SUBJECT : HINDI , Code(085)**

Books Prescribed : 1. □□□□□□ □□□ - 2  
2. □□□□□□ □□□ -2  
3. □□□□□□□□ □□□□□□

Month	Chapter No. and Name	Activity / Project/ Practical
March / April	<u>□□□□□ □□□□□□□□□□□□</u> <u>(□□□□□□)</u> □□□□ □□□ □□□- 10 □□□□ □□□ □□□□ □□□□□(□□□□□□□□□□) □□□□ □□□ □□□ -1 .□□□□ □□ □□□□ □□□□□□□□	□□□□ □□ □□□□□ □□ □□□□□ -□□□□ □□□□□□□□□□ □□□

	<p><b>1.</b> □□□□</p> <p><b>2.</b> □□□□□ □□□□□□□□</p>	
MAY	<p>□□□□□ □□□□□□□□□□□□</p> <p>□□□□ □□□□</p> <p>□□□□ <b>11</b> □□□□□□ □□ □□</p> <p>□□□□□□(□□□□□□□□ □□□□□□□□)</p> <p>□□□□ <b>-12</b> □□□□□□□□</p> <p>□□□□□□□□ □□□□(□□□□□□□□</p> <p>□□□□□□□□)</p> <p>□□□□□ □□□□</p> <p>□□□□ <b>-2</b> □□□□□ □□ □□</p> <p>□□□□ <b>4</b> □□□□□□□□□□ □□□□□□</p> <p>□□□□□□□□</p> <p><b>3.</b> □□□□□ □□ □□□□□ □□ □□□□□□</p> <p>□□□□□□□□□□</p>	<p>□□□□□ □□ □□□□□</p> <p>□□ □□ □□□□□□</p> <p>□□□□□□□□ □□□□□□</p> <p>□□□□□□□□ □□□□□□</p> <p>□□□□□□□□</p> <p>□□□□□□□□</p>
July	<p><u>□□□□□□□□ □□□□□□□□</u></p> <p>□□□□□ □□□□</p> <p>□□□□ <b>13</b> □□□□□□ □□□□□□ □□</p> <p>□□□□□□□□□□ □□□□□□□□□□</p> <p>□□□□□□ (□□□□□□□□ □□□□ □□□□)</p> <p>□□□□ <b>-15.</b> □□ □□□□ □□□□□□□□ □□</p> <p>□□□□ □□ □□□□ □□□□ □□□□</p> <p>□□□□ (□□□□□□ □□□□□□□□□□)</p> <p>□□□□□ □□□□</p> <p>□□□□ <b>-5</b> □□□□□□ □□□□□□□□ □□□□</p> <p>□□□□□ □□□□□□(□□□□□□□□□□□□□□</p> <p>□□□□)</p> <p>□□□□ <b>7</b> □□□□ □□□□□□(□□□□□□□□</p> <p>□□□□□□□□)</p> <p>□□□□□□□ □□□□□□□□ □□□□□□□□</p> <p>□□□□ <b>- 1</b> □□□□□□ □□□□ □□□□□□</p> <p>(□□□□□□□□□□□□)</p> <p>□□□□□□□□□□</p> <p><b>4.</b> □□□□□□</p> <p><b>5.</b> □□□□□□□□</p>	<p>□□□□□□□ □□□□□□</p> <p>□□□□□□□□ □□</p> <p>□□□□□ □□□□□□</p> <p>□□□□ □□ <b>10</b></p> <p>□□□□□□□□□□ □□ <b>A4</b></p> <p>□□□□□ □□□ □□</p> <p>□□□□□□ □□</p>
September	<p>□□□□□□ □□□□□□□□</p> <p>□□□□ <b>- 2.</b> □□□□□□□ □□□□□□</p> <p>□□□□□ □□□□□□□□</p> <p>(□□□□□□□□□□ □□□□□)</p> <p>□□□□□□□□ □□□□□□□□</p> <p>□□□□ <b>-8.</b> □□□ □□□□ □□□ □□□□□</p> <p>□□□□□□ (□□□□□□ □□□□□□□)</p> <p>□□□□ <b>9</b> □□□□□□□□□□ □□□□□□ (</p> <p>□□□□□□□□ □□□ □□□□□□)</p> <p>□□□□□ □□□□</p>	<p>□□□□□ □□□□□□ □□</p> <p>□□ □□□□□□ □□</p> <p>□□□□□□□□ <b>a4</b> □□□□□</p> <p>□□□□ □□ □□□□□□□□</p>

	<p>□□□-16 □□□□ □□□ □□□□  □□□□□□□□ (□□□□□□)  □□□□□□ □□□□□□□  □□□-3.□□□□ □□□□□□□  □□□□□□ (□□□□ □□□□□□)</p>	
October	<p>□□□□ □□□□  □□□-17 .□□□□□□□ □□□□□  □□(□□□□ □□□□□)  □□□□□□□□ □□□□□□□□□□  □□□□□  <b>6.</b> □□□□□□□□ □□□□□  <b>7.</b> □□□□□□□□ □□□□□  <b>8.</b> □□□ □□□□</p>	<p>□□□□ □□□□  □□□□□□ □□ □□□□  □□□□ □□ □□□□□□  □□□□□□□□□□□□□□</p>
November	<p>□□□□□□□□  9.□□□□□□  10.□□□□□□□□□□</p>	<p>□□□□ □□ □□□□□  □□ a4 □□□□ □□□  □□□□□□ □□  □□□□□□□□□  □□□□□□□□</p>
December	<p>□□□□□□ □□□□□ □□□□ □□  □□□□□□□□ □ □□□□□□ □□□□□□□□  □□ □□□□□□ □ □□□□□□□□</p>	<p>□□□□ □□ □□□□□  □□ a4 □□□□ □□ □□□  □□□□□□□□□□ □□  □□□□□□□□□  □□□□□□□□</p>
January	<p>□□□□□□ □□□□□ □□□□ □□  □□□□□□ □ □□□□□ □□□□□□□□□  □□ □□□□□□ □ □□□□□□□</p>	<p>□□□□ □□ □□□□□ □□  □□ □□□□□  □□□□□□□□□□□□□ □□  □□□□□□□□</p>
February	<p>□□□□ □□□□□□□□ □□ □□□□□□□  □□□□□□□□ □□□□□□□</p>	<p>□□□□ □□□□□□ □□  □□ □□□ □□□ a4  □□□□ □□□□ □□  □□□□□□□□</p>
March	<p>□□□□□□□□ □□□□□□□□□□ □□  □□□□□□□ □ □□□□□□□ □□□□□□□</p>	<p>□□□□□□ □□□□□  □□□□□□□□ □□  □□□□□□</p>

### Syllabus for Assessment 2023-24

	Assessment	Syllabus of Assessment	Practical/Project
Term - 1	PT-1	<p><u>□□□□□□ □□□□□□□□□□□□□□</u>  <u>(□□□□□□□)</u>  □□□□□ □□□□  □□□□ -10 □□□□□ □□□□ □□□□□  □□□□□(□□□□□□□□□□□)  □□□□□ □□□□  □□□□ 1 .□□□□□ □□ □□□□□</p>	<p>□□□□□□ □□  □□□□□ □□ □□□□  □□ □□□□□□□□</p>

		<p>□□□□□ □□□□□ □□□□□□□</p> <p>□□□ <b>-1</b> □□□□□ □□□□□</p> <p>□□□□□ (□□□□□□□□□□□□)</p> <p>□□□□□□□□</p> <p>1. □□□□□</p> <p>2. □□□□□□ □□□□□□□□</p> <p>3. □□□□□ □□ □□□□ □□ □□□□□□</p> <p>□□□□□□□□</p>	
PT-2		<p><u>□□□□□□□ □□□□□□□□</u></p> <p>□□□□□ □□□□</p> <p>□□□□-4. □□□□□□□□□□</p> <p>□□□□□□(□□□□□□□□□□□ □□□□□□)</p> <p>□□□□□ □□□□</p> <p>□□□□ -16 □□□□ □□ □□□□ □□□□□□</p> <p>(□□□□□□□□ □□□□□□□)</p> <p>□□□□□□ □□□□□□□□□□□□□□</p> <p>□□□□ 1 □□□□□□ □□□□ □□□□□□</p> <p>(□□□□□□□□□□□□)</p> <p>□□□□□□□□</p> <p>1. □□□□□□□□□ □□□□□</p> <p>2. □□□□□□□□□□</p>	<p>□□□□□□□□</p> <p>□□□□□□□□□□</p> <p>□□□□□□□□□□ □□</p> <p>□□□□□ □□□□</p> <p>□□□□□□□ □□</p> <p>□□.□□.□□</p> <p>□□□□□□ □□□□□□□□</p>
Half Yearly		<p><u>□□□□□□ □□□□□□□□□□□□□□ (□□□□□□□)</u></p> <p>□□□□□ □□□□</p> <p>□□□□ 10 □□□□□ □□□□ □□□□□</p> <p>□□□□□□(□□□□□□□□□□)</p> <p>□□□□ 11 □□□□□□ □□ □□</p> <p>□□□□□□(□□□□□□□□ □□□□□□□□)</p> <p>□□□□ -12 □□□□□□□ □□□□□□ □□□(□□□□□□□)</p> <p>□□□□□□□□</p> <p>□□□□□ □□□□</p> <p>□□□□ 1 .□□□□□ □□ □□□□□</p> <p>□□□□ -2 □□□□□ □□ □□</p> <p>□□□□ 4 □□□□□□□□□</p> <p>□□□□□□ (□□□□□□□□□□ □□□□□□)</p> <p>□□□□□□ □□□□□□ □□□□□□□</p> <p>□□□□-1 □□□□□□ □□□□ □□□□□□(□□□□□□□□□□□)</p> <p>□□□□-2 □□□□□□ □□ □□ □□□□(□□□□□□□□□)</p> <p>□□□□□□</p> <p>1. □□□□□</p> <p>2. □□ □□□</p> <p>3. □□□□□ □□ □□□□ □□ □□□□□ □□□□□□□□□</p> <p>4. □□□□□□□□</p> <p>5. □□□□□□ □□□□□□□□</p> <p>6. □□□□□□□□□</p> <p>7. □□□□□□□□□</p> <p>8. □□□□□□□□ □□□□</p>	<p>□□□□□ □□□ □□</p> <p>□□□□□ □ □□□□ □□</p> <p>□□□□□ □□ □□□□□□</p>

Term - 2	PT-3	<p>□□□□□□ □□□□□□□□□□□□</p> <p>□□□□ □□□□</p> <p>□□□□ □□□□</p> <p>□□□□ -5 □□□□□□ □□□□□□ □□□□ □□□□</p> <p>□□□□□□(□□□□□□□□□□□□ □□□□)</p> <p>□□□□ 7 □□□□ □□□□□□(□□□□□□□□</p> <p>□□□□□□□□)</p> <p>□□□□□ □□□□</p> <p>□□□□ -17 □□□□□□□□ (□□□□□ □□□□□□)</p> <p>□□□□□□ □□□□□□□□□□□□□□</p> <p>□□□□ - 2. □□□□□□ □□□ - □□□ □□□□</p> <p>□□□□□□□□ (□□□□□□□□□□ □□□□□)</p> <p>□□□□□□□□□</p> <p>1. □□□□ □□□□</p> <p>2. □□□□□□□□□□</p> <p>3. □□□□□□□</p>	<p>□ 4 □□□□ □□□□</p> <p>□□ □□□□□</p> <p>□□□□□□ □□ □□□</p> <p>□□□□□□□</p> <p>□□□□□□□□□□</p> <p>□□□□□□□□□</p> <p>□□□□□□□ □</p>
	Annual Syllabus	<p><u>□□□□□□ □□□□□□□□□□□□</u></p>	<p>□□□□□□ □□□□□</p> <p>□□□□□□□□□</p> <p>(□.□□.□□.□)□□□□</p> <p>□□□□□□□□□□</p>

**SUBJECT : MATHS (041)**

**Books Prescribed :**

- **Mathematics - Textbook for class X - NCERT Publication**
- **Mathematics exemplar problems for class X, NCERT publication.**

Month	Chapter No. and Name	Activity / Project/Practical
March	<b>UNIT I: NUMBER SYSTEMS</b> <b>CH 1: REAL NUMBER</b> Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples. Decimal representation of rational numbers in terms of terminating/non-terminating recurring decimals.	
April	<b>UNIT II: ALGEBRA</b> <b>CH 2: POLYNOMIALS</b> Zeroes of a polynomial.	

	<p>Relationship between zeroes and coefficients of quadratic polynomials only.</p> <p><b>CH 3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES</b>  Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems.</p>	<ul style="list-style-type: none"> <li>● To draw the graph of a quadratic polynomial and observe: <ul style="list-style-type: none"> <li>(i) The shape of the curve when the coefficient of <math>x^2</math> is positive.</li> <li>(ii) The shape of the curve when the coefficient of <math>x^2</math> is negative.</li> <li>(iii) Its number of zeroes.</li> </ul> </li>   <li>● To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.</li> </ul>
<p style="text-align: center;"><b>May</b></p>	<p><b>CH 4: QUADRATIC EQUATIONS</b>  Standard form of a quadratic equation <math>ax^2 + bx + c = 0</math>, (<math>a \neq 0</math>). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.</p> <p><b>CH 5: ARITHMETIC PROGRESSIONS</b>  Motivation for studying Arithmetic Progression Derivation of the <math>n</math>th term and sum of the first <math>n</math> terms of A.P. and their application in solving daily life problems.</p>	<ul style="list-style-type: none"> <li>● To identify Arithmetic Progressions in some given lists of numbers (patterns).</li> <li>● To find the sum of first <math>n</math> natural numbers.</li> <li>● To find the sum of the first <math>n</math> even natural numbers.</li> </ul>



- |  |  |  |
|--|--|--|
|  |  | <ul style="list-style-type: none"><li>● To establish a formula for the sum of first <math>n</math> terms of an Arithmetic Progression.</li></ul> |
|--|--|--|

July

**UNIT III: COORDINATE  
GEOMETRY**

**CH 7: Coordinate Geometry**

Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).

**UNIT IV: GEOMETRY**

**CH 6: TRIANGLES**

Definitions, examples, counter examples of similar triangles.

1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.
2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.
3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.
4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar.
5. (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar.

- To verify the distance formula by graphical method.

<p><b>August</b></p>	<p><b>CH 10: CIRCLES</b> Tangent to a circle at, point of contact 1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to a circle are equal.</p> <p><b>UNIT V: TRIGONOMETRY</b> <b>CH 8: INTRODUCTION TO TRIGONOMETRY</b> Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios whichever are defined at <math>0^\circ</math> and <math>90^\circ</math>. Values of the trigonometric ratios of <math>30^\circ</math>, <math>45^\circ</math> and <math>60^\circ</math>. Relationships between the ratios.</p> <p><b>CH 8: TRIGONOMETRIC IDENTITIES</b> Proof and applications of the identity <math>\sin^2 A + \cos^2 A = 1</math>. Only simple identities to be given.</p>	<ul style="list-style-type: none"> <li>● To verify using the method of paper cutting, pasting and folding that the lengths of tangents drawn from an external point are equal.</li> </ul>
<p><b>September</b></p>	<p><b>CH 9: HEIGHTS AND DISTANCES</b> Angle of elevation, Angle of Depression. Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only <math>30^\circ</math>, <math>45^\circ</math>, and <math>60^\circ</math>.</p>	<ul style="list-style-type: none"> <li>● To make a clinometer and use it to measure the height of an object.</li> </ul>

<b>October</b>	<p><b>UNIT VI: MENSURATION</b>  <b>CH 12: AREAS RELATED TO CIRCLES</b>  Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60°, 90° and 120° only.</p> <p><b>CH 13: SURFACE AREAS AND VOLUMES</b>  Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.</p>	
<b>November</b>	<p><b>UNIT VII: STATISTICS AND PROBABILITY</b>  <b>CH 14: STATISTICS</b>  Mean, median and mode of grouped data (bimodal situation to be avoided).</p> <p><b>CH 15: PROBABILITY</b>  Classical definition of probability. Simple problems on finding the probability of an event.</p>	
<b>December</b>	Revision	
<b>January</b>	Revision Pre boards	
<b>February</b>	Revision Boards	

### Syllabus for Assessment 2023-24

	<b>Assessment</b>	<b>Syllabus of Assessment</b>	<b>Practical/Project</b>
--	-------------------	-------------------------------	--------------------------

<b>Term - 1</b>	<b>PT-1</b>	CH 1: REAL NUMBER CH 2: POLYNOMIALS CH 3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	<ul style="list-style-type: none"> <li>To draw the graph of a quadratic polynomial and observe:               <ol style="list-style-type: none"> <li>The shape of the curve when the coefficient of <math>x^2</math> is positive.</li> <li>The shape of the curve when the coefficient of <math>x^2</math> is negative.</li> <li>Its number of zeroes.</li> </ol> </li> </ul>
	<b>PT-2</b>	CH 4: QUADRATIC EQUATIONS CH 5 : ARITHMETIC	To identify Arithmetic Progressions in some given lists of numbers (patterns).
	<b>Half Yearly</b>	CH 1: REAL NUMBER CH 2: POLYNOMIALS CH 3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES CH 4: QUADRATIC EQUATIONS CH 5 : ARITHMETIC PROGRESSIONS CH 6: TRIANGLES CH 7: COORDINATE GEOMETRY CH 10: CIRCLES	To verify using the method of paper cutting, pasting and folding that the lengths of tangents drawn from an external point are equal..
<b>Term - 2</b>	<b>PT-3</b>	CH 12: AREAS RELATED TO CIRCLES CH 15: PROBABILITY	To make a clinometer and use it to measure the height of an object.
	<b>Annual Exam</b>	Full Syllabus	Every student will be asked to do at least one project based on the concepts learnt in the classroom.

**SUBJECT Science (086)**

**Books Prescribed : NCERT**

Month	Chapter No. and Name	Activity / Project/ Practical
<p align="center"><b>March/April</b></p>	<p><b>Physics</b>  <u>Unit-III: Natural Phenomena</u>                      CH-10: Light- Reflection and Refraction</p> <p><b>Chemistry</b>  <u>Unit I: Chemical Substances - Nature and Behaviour.</u>                      Chapter 1- Chemical Reactions and Equations.</p> <p><b>Biology</b>  <u>Unit- II World of living</u>                      CH-6 Life Processes</p>	<p><b>Physics</b> - 1. To verify the laws of refraction of light using glass slab.</p> <p><b>Chemistry</b>- Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute HCl, (ii) Dilute NaOH solution, (iii) Dilute Ethanoic Acid solution, (iv) Lemon juice, (v) Water and (vi) Dilute Hydrogen Carbonate solution</p> <p><b>Biology</b>- Preparing a temporary mount of a leaf peel to show stomata.</p>
<p align="center"><b>May</b></p>	<p><b>Physics</b>  <u>Unit-III: Natural Phenomena</u> CH-10:                      Light- Reflection and Refraction (Contd.)</p> <p><b>Chemistry</b>  <u>Unit -I: Chemical Substances - Nature and Behaviour.</u>                      Chapter 2- Acid, Bases and Salts.</p> <p><u>Unit- II World of living</u>                      CH-6 Life Processes                      CH-7 Control &amp; Coordination</p>	<p><b>Physics</b> - 2. To verify the laws of refraction of light using glass prism.</p> <p>3. To determine the focal length of (i) concave mirror.</p> <p><b>Biology</b>- Experimentally show that carbon dioxide is given out during respiration.</p>

		<p>(ii) convex lens by obtaining the image of a distant object.</p> <p>4. To find the image distance for varying object distances in case of a convex lens and draw corresponding ray diagrams to show the nature of image formed.</p> <p><b>Chemistry-</b> Studying the properties of acids and bases (HCl &amp; NaOH)</p>
<b>July</b>	<p><b>Physics</b>  <u>Unit-III: Natural Phenomena</u>            CH-11: Human eye and colourful world</p> <p><b>Chemistry</b>  <u>Unit I: Chemical Substances - Nature and Behaviour.</u>            Chapter 3: Metals and Non-Metals.</p> <p><u>Unit- II World of living</u>            CH-8 How do organisms reproduce</p>	<p><b>Chemistry-</b> Performing and observing the following reactions and classifying them.</p> <p><b>Biology-</b> Experimentally show that carbon dioxide is given out during respiration.</p>
<b>August</b>	<p><b>Physics</b>  <u>Unit-IV : Effects of Current</u>            CH-12: Electricity</p> <p><b>Chemistry</b>  <u>Unit I: Chemical Substances - Nature and Behaviour.</u>            Chapter 3: Metals and Non-Metals</p> <p><b>Biology</b>  <u>Unit- II World of living</u> CH-8            How do organisms</p>	<p><b>Physics</b> - 5. To study the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V</p>

	Reproduce?	and I.  <b>Chemistry</b>  Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: ZnSO <sub>4</sub> (aq), FeSO <sub>4</sub> (aq), CuSO <sub>4</sub> (aq), Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (aq)  <b>Biology</b> – Studying (a) binary fission in Amoeba b) budding in yeast & Hydra.
<b>September</b>	<b>Physics</b> <u>Unit-IV : Effects of Current</u>	

	<p>CH-12: Electricity</p> <p>Chemistry Revision: <u>Unit I: Chemical Substances - Nature and Behaviour.</u></p> <p>Chapter 1- Chemical Reactions and Equations Ch-2 Acid, Bases and Salts. and Ch-3 Metals and Non-Metals.</p> <p>Biology <u>Unit- II World of living</u> CH-9 Heredity &amp; Evolution</p>	<p><b>Physics-</b> 6.To determine the equivalent resistance of two resistors when connected in series/parallel.</p> <p><b>Chemistry:</b> Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the result of experiments.</p>
<b>October</b>	<p><b>Physics</b> <u>Unit-IV : Effects of Current</u> CH-13: Magnetic effects of current</p> <p><b>Chemistry</b> <u>Unit I: Chemical Substances - Nature and Behaviour.</u> Chapter 4- Carbon Compounds.</p> <p><b>Biology</b> <u>Unit-V Natural Resources</u> CH-15 Our Environment</p>	<p><b>Physics-</b> 7.To determine the equivalent resistance of two resistors when connected in parallel.</p>



<b>November</b>	<u>Unit I: Chemical Substances - Nature and Behaviour.</u> Chapter 5- Periodic Classification of Elements	.
<b>December</b>	<b>Revision</b>	
<b>January</b>	<b>Revision</b>	
<b>February</b>	<b>Revision</b>	

### Syllabus for Assessment 2023-24

	<b>Assessment</b>	<b>Syllabus of Assessment</b>	<b>Practical/Project</b>
<b>Term - 1</b>	<b>PT-1</b>	<p><b>Physics-</b> <u>Unit-III:Natural Phenomena</u> CH-10:Light- Reflection and refraction</p> <p><b>Chemistry</b> <u>Unit I: Chemical Substances - Nature and Behaviour.</u> Chapter 1- Chemical Reactions and Equations</p> <p>Biology <u>Unit- II World of living</u> CH-6 Life Processes</p>	<p><b>Physics</b> - 1. To verify the laws of refraction of light using glass slab.</p> <p>2. To verify the laws of refraction of light using glass prism.</p> <p><b>Chemistry</b></p> <p>Finding the pH of the following samples by using pHpaper/universal indicator: (i) Dilute HCl, (ii) Dilute NaOH solution.</p>
	<b>PT -2</b>	<p><u>Unit-III:Natural Phenomena</u> CH-10:Light- Reflection and refraction CH-11: Human eye and colourful world.</p> <p><b>Chemistry</b> <u>Unit I: Chemical Substances - Nature and Behaviour.</u> Chapter 1- Chemical Reactions and Equations. Ch-2 Acid, Bases and Salts.</p> <p>Biology <u>Unit- II World of living</u> CH-6 Life Processes</p>	<p>Chemistry</p> <p>* Studying the properties of acids and bases (HCl &amp; NaOH)</p> <p>* Studying the properties of acids and bases (HCl &amp; NaOH)</p> <p>Biology- Experimentally show that carbon dioxide is given out during respiration.</p>
<b>TERM - I</b>		<b>Physics</b>	<b>Physics</b>
	<b>Half Yearly</b>	<u>Unit-IV : Effects of Current</u> CH-12: Electricity	3. To determine the focal length of (i) concave mirror

		<p><b>Chemistry</b>  <u>Unit I: Chemical Substances - Nature and Behaviour.</u></p> <p>Chapter 3: Metals and Non-Metals</p> <p><b>Biology</b>  <u>Unit- II World of living</u></p> <p>CH- 8 How do organisms reproduce</p>	<p>(ii) convex lens by obtaining the image of a distant object.</p> <p>Chemistry  To Study the Properties of acetic acid.</p> <p>Biology- Binary fission in Amoeba.</p>
<b>TERM - II</b>	<b>PT-3</b>	<p><b>Physics</b>  <u>Unit-IV : Effects of Current</u>  CH-13: Magnetic effects of Current.</p> <p><b>Chemistry:</b>  Unit I: Chemical Substances - Nature and Behaviour.  Chapter 4- Carbon and its Compounds.</p> <p><b>Biology</b>  <u>Unit – II World of living</u>  CH-9 Heredity &amp; Evolution</p>	<p><b>Chemistry:</b> Observing the action of Zn, Fe, Cu and metals on the different salt solutions.</p>
	<b>Annual Exam</b>	Complete Syllabus	

<b>SUBJECT : Social Science (SUBJECT CODE) 087</b>		
<b>Books Prescribed : NCERT / CBSE pattern based books</b>		
<b>Month</b>	<b>Chapter No. and Name</b>	<b>Activity / Project/ Practical</b>
<b>March/April</b>	HISTORY: Ch - 1 The rise of nationalism in Europe. GEOGRAPHY: Ch-1 Resources and development.	Every student has to compulsorily undertake any one project on the following topics: Consumer Awareness <b>OR</b> Social Issues <b>OR</b> Sustainable Development

<b>May</b>	POLITICAL: Ch – 1 Power sharing. ECO : Ch – 1 Development GEOGRAPHY Ch-2 Forest and wildlife	<b>Project / Activity:</b> • Learners may collect photographs of typical rural houses, and clothing of people from different regions of India and examine whether they reflect any relationship with climatic conditions and relief of the area.
<b>July</b>	HISTORY : Ch – 2 Nationalism in India GEOGRAPHYCh-3 water resources	<b>Posters:</b> • Pollution of water in the locality. • Depletion of forests and the greenhouse effect. Note: Any similar activity may be taken up.
<b>August</b>	POLITICAL Ch – 2 Federalism ECO: Ch – 2 Sectors of Indian economy.	
<b>September</b>	HISTORY : Ch – 3 Making of the global world GEOGRAPHY: Ch – 4 Agriculture POLITICAL- Ch- 3 Gender Religion and caste. ECONOMICS Ch-5 Consumer rights.( To be used Only for <b>Project work )</b>	• Learners may write a brief report on various irrigation practices in the village and the change in cropping pattern in the last decade
<b>October</b>	HISTORY: Ch5- Print culture and the modern world POLITICAL :Ch-4 Gender, Religion and caste ECO : Ch 3 Money and credit GEOGRAPHY: Ch -6 Manufacturing	<b>Suggested Activities / Instructions:</b> Theme 2*: Visit to banks and money lenders / pawnbrokers and discuss various activities that you have observed in banks in the classroom. Participate in the meetings of Self Help Groups, which are engaged in micro credit schemes in the locality of learners and observe issues discussed. Theme 4** : Provide many examples of service sector activities. Use numerical examples, charts and photographs

<b>November</b>	HISTORY : Ch - 4 The Age of Industrialisation GEOGRAPHY : Ch -5 Minerals and Energy resources, Ch- 7 Lifeline of national economy POLITICAL :Ch – 6 Political Parties Ch -7 Outcomes of Democracy ECONOMICS – Globalisation and the Indian economy	Draw political party symbols of India in notebook {Activity}  collect logos of different MNC brands and stick in notebook .
<b>December</b>	Revision	
<b>January</b>	Revision	
<b>February</b>	Revision	

### Syllabus for Assessment 2023-24

	Assessment	Syllabus of Assessment	Practical/Project
<b>Term - 1</b>	<b>PT-1</b>	HISTORY: Ch - 1 The rise of nationalism in Europe. GEOGRAPHY: Ch-1 Resources and development. POLITICAL: Ch – 1 Power sharing.	
	<b>PT-2</b>	HISTORY : Ch – 3 Making of the global world GEOGRAPHY: Ch – Agriculture	
	<b>Half Yearly</b>	HISTORY : Ch – 2 Nationalism in India GEOGRAPHY Ch-3 water resources POLITICAL Ch – 2 Federalism ECO : Ch – 1 Development ECO: Ch – 2 Sectors of Indian economy.	

<b>Term - 2</b>	<b>PT-3</b>	HISTORY : Ch - 4 The Age of Industrialisation GEOGRAPHY : Ch -5 Minerals and Energy resources POLITICAL :Ch – 6 Political Parties Ch -7 Outcomes of Democracy ECONOMICS – Globalisation and the Indian economy	
	<b>Annual Exam</b>	Full syllabus	

<b>SUBJECT : ARTIFICIAL INTELLIGENCE (417)</b>		
<b>Books Prescribed : NCERT - ARTIFICIAL INTELLIGENCE</b>		
<b>Month</b>	<b>Chapter No. and Name</b>	<b>Activity / Project/ Practical</b>
<b>April</b>	<b>PART A : Employability Skills</b> <b>UNIT- 1 (Communication Skills)</b> Ch-1 (Methods of Communications) Ch-2 (Communication Cycle) Ch-3 (Communication Barriers) Ch-4 (Effective Communication) Ch-5 (Basic Writing Skills)	<ul style="list-style-type: none"> <li>● Draw a neat Diagram of Elements of Communication</li> </ul>
<b>May</b>	<b>PART A: UNIT- 1 (Communication Skills)</b> Ch-3 (Perspective in Communications) Ch-4 (Basic Writing Skills) <b>PART A : UNIT- 2 (Self Management Skills)</b> Ch-5 (Importance of Self Management) Ch-6 (Building Self Confidence)	<ul style="list-style-type: none"> <li>● Diagram of Self Management Skills</li> <li>● Make a video on Self Management Skills</li> </ul>
<b>July</b>	<b>UNIT- 3 (Information and Communication Technology Skills)</b> Ch-7 (Introduction to ICT) Ch-8 (Components of Computer System) Ch-9 (Peripheral Devices) Ch-10 (Basic Computer Operations)	<ul style="list-style-type: none"> <li>● Make an attractive Chart on various Peripheral Devices</li> </ul>
<b>August</b>	<b>UNIT- 3 (Information and Communication Technology Skills)</b> Ch-11 (Operating Systems) Ch-12 (Introduction to Internet) Ch-13 (Introduction to E-Mail) Ch-14 (Introduction to Social Media)	<ul style="list-style-type: none"> <li>● Create an email Account in Gmail and perform the various operations; compose, send, sending attachments etc.</li> </ul>
<b>September</b>	<b>UNIT- 4 (Entrepreneurial Skills)</b> Ch-15 (Types of Business Activities) Ch-16 (Characteristics of Entrepreneurship) <b>UNIT- 5 (Green Skills)</b> Ch-17 (Environment Protection and Conservation)	<ul style="list-style-type: none"> <li>● Make a PowerPoint Presentation on Sustainable Development</li> </ul>

	Ch-18 (Importance of Green Economy)	
<b>October</b>	<p align="center"><b>PART - B (Subject Skills)</b></p> <p><b>UNIT - 1 (Introduction to AI)</b> Ch-1 (Foundational Concept of AI) Ch-2 (Basics of AI)</p> <p><b>UNIT - 2 (AI Project Cycle)</b> Ch-1 (Introduction) Ch-2 (Problem Solving) Ch-3 (Data Acquisition) Ch-4 (Data Exploration) Ch-5 (Modeling) Ch-6 (Evaluation)</p>	<ul style="list-style-type: none"> <li>● <b>Make a small project based on AI</b></li> </ul>
<b>November</b>	<p><b>UNIT - 3 (Natural Language Processing)</b> Ch-1 (Introduction) Ch-2 (Chatbots) Ch-3 (Language Differences) Ch-4 (Concepts of Natural Language Processing)</p> <p><b>UNIT - 4 (Evaluation)</b> Ch-1 (Introduction) Ch-2 (Confusion Matrix) Ch-3 (Evaluation Score Calculation)</p>	<ul style="list-style-type: none"> <li>● <b>Create a model based on NLP</b></li> </ul>
<b>December</b>	<p><b>All Units to be assessed through practical</b></p> <p><b>UNIT - 5 (Advance Python)</b></p> <p><b>UNIT - 6 (Data Sciences)</b> Ch-1 (Introduction) Ch-2 (Concepts of Data Sciences) Ch-3 (K-nearest neighbour model)</p> <p><b>UNIT - 7 (Computer Vision)</b> Ch-1 (Introduction) Ch-2 (Concepts of Computer Vision) Ch-3 (Open CV and Convolution Operator) Ch-4 (Convolution Neural Network)</p>	<ul style="list-style-type: none"> <li>● <b>Programs related to Python</b></li> <li>● <b>Programs related to Data Science and Computer Vision.</b></li> </ul>
<b>January</b>	<p><b>Revision</b></p> <p><b>Tests</b></p> <p><b>Project Work</b></p> <p><b>Practical File</b></p>	
<b>February</b>		

## Syllabus for Assessment 2023-24

	Assessment	Syllabus of Assessment	Practical/Project
<b>Term - 1</b>	<b>PT-1</b>	<b>Part A : Unit -1</b> Ch-1 (Communication Cycle) Ch-2 (Various Methods of Communication) Ch-3 (Perspective in Communication) Ch-4 (Basic Writing Skills) <b>Part B: Unit -1 (Introduction to AI)</b> Ch-1 (Foundational Concept of AI)	<ul style="list-style-type: none"> <li>● AI Model</li> </ul>
	<b>PT-2</b>	<b>Part - A Employability Skills</b> Unit-2 Self Management Skills Unit-3 ICT Skills <b>Part - B Subject Specific Skills</b> Unit-1 Ch-2 (Basics of AI) Unit 5 : Advance Python Ch 1 : Python Concepts	<ul style="list-style-type: none"> <li>● Python Programs</li> </ul>
	<b>MID TERM</b>	<b>Part A : UNIT- 4 (Entrepreneurial Skills)</b> Ch-15 (Types of Business Activities) Ch-16 (Characteristics of Entrepreneurship) <b>Part B : UNIT - 2 (AI Project Cycle)</b> Ch-1 (Introduction) Ch-2 (Problem Solving) Ch-3 (Data Acquisition) Ch-4 (Data Exploration) Ch-5 (Modeling) Ch-6 (Evaluation)	<ul style="list-style-type: none"> <li>● AI Model based on Project Cycle</li> </ul>
<b>Term - 2</b>	<b>PT-3</b>	<b>Parts A: UNIT- 5 (Green Skills)</b> Ch-17 (Environment Protection and Conservation) Ch-18 (Importance of Green Economy) <b>Part B: UNIT - 3(Natural Language Processing)</b> Ch-1 (Introduction) Ch-2 (Chatbots) Ch-3 (Language Differences) Ch-4 (Concepts of Natural Language Processing)	<ul style="list-style-type: none"> <li>● Project on NLP</li> </ul>
	<b>Annual Exam</b>	<b>PART A : Employability Skills</b> <b>UNIT- 1 (Communication Skills)</b> <b>UNIT- 2 (Self Management Skills)</b> <b>UNIT- 3 (Information and Communication Technology Skills)</b>	<ul style="list-style-type: none"> <li>● Python Programs</li> </ul>

		<b>UNIT- 4 (Entrepreneurial Skills)</b> <b>UNIT- 5 (Green Skills)</b> <b>PART B : Subject Skills</b> <b>UNIT - 1 (Introduction to AI)</b> <b>UNIT - 2 (AI Project Cycle)</b> <b>UNIT - 3 (Natural Language Processing)</b> <b>UNIT - 4 (Evaluation)</b> <b>UNIT - 5 (Advance Python)</b> <b>UNIT - 6 (Data Sciences)</b> <b>UNIT - 7 (Computer Vision)</b>	
--	--	---	--





