

**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**ACADEMIC PLAN**  
**SESSION: 2025-26**  
**SUBJECT: ENGLISH CORE**  
**CLASS: XII**

MONTH	TOPICS/SUB-TOPICS	LEARNING INTENTIONS/SKILLS DEVELOPMENT	ACTIVITIES / ASSIGNMENTS
April	<p><b><u>FLAMINGO</u></b></p> <p>POETRY: My Mother at Sixty Six</p> <p>The Last Lesson</p> <p>Lost Spring</p> <p>NOTICE WRITING: Circulatory &amp; Non-Circulatory</p> <p>INVITATIONS &amp; REPLIES: Formal /Informal</p>	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>-Comprehend familial relationship</li> <li>-Discuss literary devices</li> <li>-Instil patriotism / Love for language</li> <li>- Enhance their vocabulary</li> <li>- Appreciate literature</li> <li>-Be sensitive towards evil practices in the society like child labour</li> <li>- Enhance their vocabulary</li> <li>-Reinforce creative writing skills</li> <li>- Learn formats</li> <li>-Develop creativity</li> <li>- Learn formats</li> </ul>	<p>1 RTC and 2 SAQs</p> <p><b><u>Desh Bhakti Curriculum</u></b>: Activity: Class discussion on ‘How Is Your Motherland Comparable To Your Mother?’</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Discussion - Linguistic Chauvinism</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Discussion on Child Labour</p> <p>3 Non-circulatory and 2 Circulatory</p> <p>Activity: PPT to be shown</p> <p>2 Invitations and 2 Replies</p> <p>Activity: PPT to be shown</p>

	<p><b><u>VISTAS</u></b></p> <p>The Third Level</p> <p>The Tiger King</p>	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>- Enhance their vocabulary</li> <li>- Appreciate literature</li> <li>- Learn the nuances of irony, satire &amp; humour</li> <li>- Become aware about the need to protect wildlife</li> <li>- Understand &amp; analyse the text</li> </ul>	<p>2 SAQs and 2 LAQs</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Debate – Destiny is All Powerful</p>
May	<p>FORMAL LETTER WRITING</p> <p>To the Editor / Job Application</p> <p>Unseen Passage</p> <ol style="list-style-type: none"> <li>1. Factual/Descriptive/Literary</li> <li>2. Case-based factual</li> </ol>	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>- Learn the art of formal expression / creative expression of thoughts</li> <li>- Assess comprehension, interpretation and inference</li> <li>- Develop skills of analysis, reasoning and fluency</li> </ul>	<p>1 letter of each type</p> <p>Activity: PPT to be shown</p> <p>Worksheets and discussions of various data based diagrams to infer</p>

<p><b>July</b></p>	<p><b><u>VISTAS</u></b></p> <p>Journey to the End of the Earth</p> <p>The Enemy</p> <p><b><u>FLAMINGO</u></b></p> <p>POETRY: Keeping Quiet</p> <p>POETRY: A Thing of Beauty</p>	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>- Enhance vocabulary</li> <li>- Appreciate literature</li> <li>- Realise that humanity transcends patriotism / humanness in war</li> <li>- Develop critical appreciation of the theme</li> <li>- Develop the art of introspection</li> <li>- Realise the importance of mutual understanding and strength</li> <li>- Critically analyse the title</li> <li>- Appreciate life in its small moments</li> <li>- Identify symbolic inferences and literary devices</li> </ul>	<p>2 SAQs and 2 LAQs</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Draw a parallel between the poem 'The Man He Killed' (by Thomas Hardy) &amp; 'The Enemy'</p> <p>1 RTC and 2 SAQs</p> <p>Activity: Students will be given 5 minutes to meditate &amp; introspect &amp; then reflect on their thoughts through a discussion</p> <p>1 RTC and 2 SAQs</p> <p>Activity: Talk / Video - Beauty in its varied forms</p>
	<p>Deep Water</p> <p>The Rattrap</p>	<ul style="list-style-type: none"> <li>- Inculcate the courage to face adversities</li> <li>- Understand idiomatic expressions</li> <li>- Comprehend the message: Latent Goodness Can Be Revived Through Love And Understanding</li> <li>- Metaphorically interpret 'The Rattrap'</li> <li>- Develop love for literature</li> </ul>	<p><b><u>Sports Integration:</u></b> Oral quiz on the popular sports in India</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Sharing stories of people with exceptional feats</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Discussion - Riches And Temptations Can Be Resisted</p>

	Indigo	<ul style="list-style-type: none"> <li>- Instil Patriotism and spirit of freedom</li> <li>- Learn values of truthfulness and sincerity of purpose</li> </ul>	2 SAQs and 2 LAQs PPT on Indigo issue
August	<u>VISTAS</u>  On the Face of It	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>- Become sensitive towards the handicapped</li> <li>- Develop positive attitude</li> <li>-To initiate discussion on the theme</li> </ul>	<p><b><u>Art Integration:</u></b> Class Discussion - ‘Body Shaming is a thing of the past. Acceptance of oneself is the norm of today.’</p> <p>2 SAQs and 2 LAQs</p> <p>Activity: Discussion - Handicaps have to be accepted</p>
	<u>FLAMINGO</u>  Poets & Pancakes  The Interview	<ul style="list-style-type: none"> <li>-Enhance their vocabulary</li> <li>- Appreciate literature</li> </ul> <ul style="list-style-type: none"> <li>-Enhance their vocabulary</li> <li>- Appreciate literature</li> </ul>	<p>2 SAQs and 2 LAQs</p> <p>2 SAQs and 2 LAQs</p>

	POETRY: A Roadside Stand	-Identify symbolic inferences and literary devices	2 RTC and 2 SAQs
	ARTICLE / REPORT	Learn communicative skill / art of formal creative writing using proper formats - Learn objective analysis and evaluation - Understand coherence and relevance of ideas - Employ grammatical accuracy, appropriate language / spellings	1 writing skill of each type Activity: PPT to be shown
<b>September</b>	ALS Revision for Half Yearly examination		
<b>October</b>	<u>FLAMINGO</u>  POETRY: Aunt Jennifer's Tigers       Going Places	The students will be able to:  -Become sensitive towards gender equality - Appreciate and comprehend symbolism    - Become familiar with the idea of fantasizing	1 RTC and 2 SAQs Activity: Class Discussion - Women empowerment    2 SAQs and 2 LAQs Activity: Discussion on students' dreams, hopes and aspirations

		<ul style="list-style-type: none"> <li>- Differentiate between contrasting characters</li> <li>- Learn critical analysis</li> </ul>	
<p><b>November</b></p>	<p><b><u>VISTAS</u></b></p> <p>Memories of Childhood</p> <p>ALS</p>	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>- Condemn racial discrimination</li> <li>- Interpret, evaluate and respond to this critical issue</li> </ul>	<p><b><u>Happiness Curriculum:</u></b> Discussion on the students' happy memories of their childhood. 2 SAQs and 2 LAQs</p> <p>Activity: Debate - Racial discrimination is no longer prevalent</p>
<p><b>December &amp; January</b></p>	<p>Revision for Pre-board examination</p>		

**HANSRAJ MODEL SCHOOL**

**PUNJABI BAGH**

**NEW DELHI**

**Academic Plan 2025-2026**

**Subject : MATHEMATICS**

**CLASS :XII**

<b>MONTH</b>	<b>TOPIC/ SUBTOPIC</b>	<b>LEARNING INTENTIONS</b>	<b>ACTIVITY/ASSIGNMENT</b>
--------------	------------------------	--------------------------------	----------------------------

<b>APRIL-MAY</b>	<p><b>Matrices</b></p> <ol style="list-style-type: none"> <li>I. Meaning of matrices</li> <li>II. Types of matrices</li> <li>III. Operations on matrices</li> <li>IV. Properties of addition and multiplication of matrices</li> <li>V. Definition of Inverse of matrix</li> </ol> <p><b>Determinants</b></p> <ol style="list-style-type: none"> <li>I. Meaning and evaluation</li> <li>II. Minors and Cofactors</li> <li>III. Area of Triangle using determinants</li> <li>IV. Applications of matrices and determinants in solving system of linear equations</li> </ol> <p><b>Linear programming</b></p> <ol style="list-style-type: none"> <li>i. solving LPP of different types using graphical method</li> </ol>	<ul style="list-style-type: none"> <li>● students will be able to understand meaning of matrix, types of matrices and operations on matrices with its properties</li> <li>● Students will be able to evaluate determinants of different orders</li> <li>● Students will be able to understand Properties of determinants and solve system of linear equations</li> </ul> <p>students will be able to solve LPP</p>	<p><b>Sports integration</b> :From any sport, Select a tournament or player(s).Information will be put in the form of matrix . Name the matrix and write the</p> <ul style="list-style-type: none"> <li>● order of the matrix</li> <li>● Number of elements of the matrix</li> <li>● Taking this number of elements, how many matrices of different orders can be formed?</li> <li>● Form any two square matrices from above matrix and find the determinant.</li> </ul> <p>Assignment on Linear programming</p> <p><b>Art integration</b> :Use of Geogebra to draw graphs and solve LPP</p>
------------------	--	--	--



<b>JULY</b>	<p><b>Relations and functions</b></p> <ol style="list-style-type: none"> <li>1. Types of Relation</li> <li>2. Equivalence Relation</li> <li>3. Types of functions(One one and Onto Functions)</li> </ol> <p><b>Inverse Trigonometric function</b></p> <ol style="list-style-type: none"> <li>I. Meaning of inverse trigonometric functions</li> <li>II. Domain and range</li> <li>III. Principal value branch</li> </ol> <p><b>Continuity and differentiability</b></p> <ol style="list-style-type: none"> <li>I. Continuity</li> <li>II. Differentiability</li> <li>III. Derivatives using Chain Rule</li> <li>IV. Implicit functions</li> <li>V. Logarithmic differentiation</li> <li>VI. Parametric form</li> <li>VII. Second order derivative</li> </ol>	<ul style="list-style-type: none"> <li>● Student will be able to define equivalence relation, types of functions, composition, inverse of functions .</li> <li>● Student will be able to understand and apply the concept of inverse trigonometric functions</li> <li>● Students will be able to understand continuity at a point or given interval.</li> <li>● Students will be able to differentiate different functions using different methods</li> </ul>	<p>Act 1,2-To verify that the relation is equivalence relation or not.</p> <p>Act 3- To demonstrate a function which is not one-one and not onto.</p> <p>Assignment on Relation and functions</p> <p>Assignment on inverse trigonometric function</p> <p>Act 4 - To draw the graphs of <math>\sin^{-1}x</math> and <math>\cos^{-1}x</math></p> <p><b>Act 5</b> To find analytically the limit of a function at a point and also to check the continuity of the function at that point.</p> <p>Assignment on continuity and differentiability.</p>
<b>AUGUST</b>	<p><b>Applications of derivatives</b></p> <ol style="list-style-type: none"> <li>I. Rate of change</li> <li>II. Increasing and decreasing functions</li> <li>V. Maxima and minima</li> </ol>	<ul style="list-style-type: none"> <li>● Students will be able to apply concept of derivatives in different situations</li> </ul>	<p>Assignment on application on differentiability.</p> <p><b>Act 6</b> - construction of open box of maximum volume</p>

	<b>Integrals</b> <ol style="list-style-type: none"> <li>I. By Substitution</li> <li>II. Partial fractions</li> <li>III. By parts</li> <li>IV. Special integrals</li> <li>V. Properties of definite integrals</li> </ol>	<p>Students will understand integrals as antiderivatives and find integrals using different methods</p> <ul style="list-style-type: none"> <li>• Find integrals using properties</li> </ul>	<p>from a rectangular sheet.  <b>Act 7</b> - To verify that amongst all the rectangles of same Perimeter the square has the maximum area.</p> <p>Assignment on integrals.</p>
<b>SEPTEMBER</b>	Half-yearly Examination		
<b>OCTOBER</b>	<b>Application of Integrals</b> <ol style="list-style-type: none"> <li>I. Finding area under a curve using integration</li> </ol> <b>Differential equations</b> <ol style="list-style-type: none"> <li>I. Order and degree</li> <li>II. Solution by variable separable method</li> <li>III. Solving homogeneous and linear differential equations</li> </ol> <b>Probability</b> <ol style="list-style-type: none"> <li>I. conditional probability</li> <li>II. Baye's theorem and its applications</li> </ol>	<p>students will be able to find area under curves using integration</p> <ul style="list-style-type: none"> <li>• students will be able to understand differential equation-its and solution</li> </ul>	<p>Assignment on Application of Integrals</p> <p>Assignment on Differential equations</p>

	<p>III. probability distribution-its mean</p>	<ul style="list-style-type: none"> <li>• students will be able to understand conditional probability and apply Baye's theorem</li> <li>• students will be able to find probability distribution-its mean</li> </ul>	<p><b>Act 8</b> - To compute conditional probability of an event.</p>
<p><b>NOVEMBER</b></p>	<p><b>Vectors</b></p> <p>I. definition and types of vectors</p> <p>II. addition,scalar and vector product of vectors</p> <p><b>Three-dimensional geometry</b></p> <p>i.equation of lines and plane indifferent forms</p> <p>ii.distance between two skew lines</p>	<p>students will understand definition and types of vectors,their addition,scalar and vector product ,</p> <p>students will be able to find equation of lines and plane distance between two skew lines</p>	<p>Assignment on vectors</p> <p>Assignment on three dimensional geometry.</p>

**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH,NEW DELHI**  
**ACADEMIC PLAN**  
**SESSION : 2025-2026**  
**SUBJECT :HOME SCIENCE**  
**CLASS :12**

<b>MONT H</b>	<b>TOPIC/ SUBTOPICS</b>	<b>LEARNING INTENTIONS</b>	<b>ACTIVITIES</b>	<b>ASSIGNMENTS</b>
APRIL	<b>UNIT-2</b> <b>NUTRITION,FOOD</b> <b>SCIENCE AND</b> <b>TECHNOLOGY</b> Chapter-2: Clinical nutrition and Dietetics Chapter-3: Public health and nutrition	1. Students will be able to understand and describe the significance of clinical nutrition and dietetics 2. Students will be able to describe the role and function of a clinical nutritionist or medical therapist. 3. Students will be able to explain the knowledge and skills required for a career in clinical nutrition. 4. Students will gain understanding about nutritional problems and gain knowledge about strategies used to tackle them.	1. Students will be regularly asked to revise the Chapter and short quizzes will be taken. 2. Class discussion will be held regularly. 3. Recall previous concepts of food groups.	Students will be given assignments based on topics covered including NCERT and case based questions.  Project work on Mid day meal,ICDS.   Preparation of practical files.

	<p><b>PRACTICAL :</b> Record one day diet of an individual (old man)</p>	<p>5. Students will be able to know the different types of catering and food services.</p> <p>Students will be able to conduct the Diet planning and modification for an old man.</p>	<p>1. Various meals will be planned and modified to suit the needs of the old man. (Happiness curriculum)</p>	
MAY	<p><b>UNIT-2 NUTRITION ,FOOD SCIENCE AND TECHNOLOGY</b> Chapter-5: Food Processing and technology.</p> <p>Chapter-6: Food Quality and Food Safety</p> <p>Chapter-1 Work ,livelihood and Career</p> <p><b>PRACTICAL:</b> Prepare and plan</p>	<p>1. Students will understand meaning food processing and technology 2. Students will identify factors and skills required to be a professional food technologist. 3. To understand the scope of employment.</p> <p>1. Understand concepts of national and international food standards. 2. Students will identify career avenues in this area 3. Analyse conditions under FSSAI. 4. Causes &amp; consequences of food contamination.</p> <p>Students will be able to prepare messages related to nutrition.</p>	<p>1. Case study will be discussed. 2. Tests on food adulteration will be conducted. 3. Listing various adulterants in food. 4. Collecting food labels having standardised marks.</p>	<p>Assignments will be given in class having Picture based questions.</p>

	<p>messages for nutrition ,health and life skills using different modes of communication for different target groups.</p> <p>Development and preparation of supplementary foods for nutrition programs.</p>		<p>Posters and Charts will be prepared. (Art integration)</p>	
JULY	<p><b>UNIT-3 HUMAN DEVELOPMENT AND FAMILY STUDIES</b></p> <p>Chapter-7 Early childhood education</p> <p>Chapter-10 Management of support services, Institutions, Programs for Children, Youth and Elderly.</p> <p>Chapter-1 Work, livelihood and career.</p>	<ol style="list-style-type: none"> <li>1. Analyse the problems and concepts of special education, inclusive education and support services.</li> <li>2. Students will be able to identify and study the concept of disability and different types of disability.</li> <li>4. Students will identify and explain services and programs needed for children, youth and elderly.</li> <li>5. Students will be aware of skills required in this field.</li> </ol>	<ol style="list-style-type: none"> <li>1. Role play by students to show problems.</li> <li>2. Discussion on various merits and demerits of these methods .</li> <li>3. Presentations on the needs of special children will be done.</li> </ol>	<p>Newsletters will be prepared.</p> <p>Assignment will be provided having important MCQs.</p>

	<b>PRACTICAL:</b> <ol style="list-style-type: none"> <li>1. Listing various adulterants in food.</li> <li>2. Collecting food labels having standardised marks.</li> <li>3. Conducting mock sessions among peers in career guidance and nutrition counselling.</li> </ol>	<ol style="list-style-type: none"> <li>1. Students will be able to identify adulterants in food samples.</li> <li>2. Understanding of various standard marks.</li> </ol>	1. Food testing using chemicals.	Project will be carried out.
AUGUST	<b>UNIT-4 FABRIC AND APPAREL</b> Chapter-11: Design for fabric and apparel  Chapter-12: Fashion Design and Merchandising.  <b>PRACTICAL</b> Application in quality control techniques.	<ol style="list-style-type: none"> <li>1. Recognise the elements that contribute design</li> <li>2. Explain the application of design principles for fabric and apparel.</li> <li>3. Understand the elements of design</li> </ol> <ol style="list-style-type: none"> <li>1. Explain the significance of fashion design.</li> <li>2. Describe the fundamentals of fashion.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tracing examples of textile designing.</li> <li>2. Tracing examples of textile designing.</li> <li>3. Colourful flow charts will be prepared. (Art integration)</li> </ol>	Assignments will be given topic wise and assertion reasoning assignment will be done.

		3. Explain the knowledge and skills required in fashion business.		
SEPTEMBER	<b>UNIT-4 FABRIC AND APPAREL</b>  Chapter-15: Care and Maintenance of Fabrics in Institutions.	1. Understand the significance of mass production of apparel. 2. Describe the stages and system of mass production. 3. Identify the fabric and garment defects before and after production. 4. Understand the concept of quality and career in the garment manufacturing industry. 5. Explain the need for care and maintenance of fabrics 6. Describe the concept of care and maintenance of fabrics in hospitals and hotels	1. Students will be regularly asked to revise the chapter.	1. Students will be given assignments based on topics covered involving the textbook questions and case based questions.
OCTOBER	<b>UNIT-5 RESOURCE MANAGEMENT</b>  Chapter-17: Hospitality Management  Chapter-20: Consumer Education and Protection	1. Explain the process and various equipment required. 2. Identifying various career opportunities. 3. Explain the concept and importance of human resource management. 4. Describe the functions of human resource management	Group discussions will be extensively conducted on qualities of water and water conservation.	Assignments & text book questions will be done and extra questions on HOTS.



	<p>PRACTICAL</p> <p>1. Removal of Stains - tea, coffee, curry, grease, blood, lipstick</p> <p>3. Make a sample of block printing and tie and dye.</p>	<p>professionals and identify their qualities.</p> <p>5. Explain the importance and functioning of food and beverage in the hospitality industry.</p> <p>6. Describe and discuss housekeeping and front office in the hospitality industry</p> <p>3. Know the various career opportunities.</p> <p>1. The students will be able to relate to the importance and role of consumer education and production.</p> <p>2. Explain the basic concepts related to consumer education and protection</p>	<p>3. Students will prepare leaflets and pamphlets on consumer education. (Art integration)</p> <p>1. Do stain removal testing.</p>	<p>Prepare block printing samples.</p>
NOVEMBER	<p><b>UNIT -6</b></p> <p><b>DEVELOPMENT AND COMMUNICATION</b></p> <p>Chapter-21: Development ,Communication and Journalism</p>	<p>1. Understand the importance of development communication and journalism for social change and development.</p> <p>2. Identify the skills required for a career in communication and journalism.</p>	<p>1. Students will be regularly asked to revise the chapter.</p> <p>2. Students will draft messages of the patriotic leaders and present in class which will be followed by critical analysis of levels of communication.(Desh Bhakti Curriculum)</p>	<p>1. Students will be given assignments based on topics covered involving case based questions ,MCQS.</p>

	PRACTICAL Analysis and discussion of print ,radio , electronic media.	1.Know the importance of media and management 2. Understand the process and scope of behaviour change communication and strategy.		
DECEMBER	Revision of full syllabus.	Students will be able to identify their weak and strong areas of preparation.	Mock quiz in class for revision	Assignments will be taken up for revision involving previous year question papers.  Sample papers will be revised.

**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**ACADEMIC PLAN**  
**SESSION : 2025-2026**  
**SUBJECT : PSYCHOLOGY**  
**CLASS :12**

MONTH	TOPIC/SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENTS
April	<p>Chapter-1: Intelligence &amp; Aptitude</p> <p>Practical:  1. Introduction to Psychological testing  2. To conduct an Intelligence Test  <b>(RSPM)</b></p>	<p>1.Students will be able to understand the psychological attributes  2.Learn different methods that are used to assess the psychological attributes  3.Learn about individual differences  4. Understand the differences between intelligence &amp; aptitude.</p> <p>1.They will conduct tests on their case study sample.  1. Case study will be discussed.</p>	<p>1.Students will be given assignments based on topics covered.  2.Students will be regularly asked to revise the Chapter and Quiz will be taken.  3.Layout will be prepared to study various models on intelligence.</p> <p>1. They will conduct tests on their case study sample.  2. Case study will be discussed.</p>	<p>Students will prepare illustrations on models of intelligence.</p> <p>Students will be given the task of doing a random act of kindness by sharing food or clothes to a needy person as part of the Happiness curriculum.</p>

	Practical : Conduction of <b>AISS</b> and Study of experimental Psychology	1,They will conduct tests on their case study sample. 1. Case study will be discussed.	1. Case study will be discussed.	They will conduct tests on their case study sample.
May	Chapter-2: Self & Personality  Practical: 1. To administer a personality test ( <b>SCQ</b> )	1.Students will be able to describe the concept of self, personality. 2.They will be able to explain various approaches.  1. Study of personality & its assessment.  Practical: Students will gain confidence & expertise of conducting the psychological test on self.	1. Case study will be discussed.  2. They will conduct tests on their case study sample. 3.The students will be allotted activities to project their personalities using colors .(Art integration)	Assignments will be given and an introspection exercise will be conducted.
July	Chapter-3: Human Strengths & Meeting Life Challenges  Practical: 1. To administer a personality test ( <b>MPI</b> )	1.The students will understand nature, types & sources of stress. 2.They will learn to cope with stress. 3.They will inculcate life skills and positive health for their well- being.  Practical: Students will gain confidence & expertise of conducting the psychological test on self.	1.Presentation / short film will be shown on coping with stress and examination anxiety. 2.As part of Desh Bhakti curriculum the students will be motivated to design some slogans that will release stress and show their patriotic feelings.  They will conduct tests on their case study sample. Case study will be discussed.	Assignments will be given topic wise for solving case based and picture based questions.

August	Chapter-4: Psychological Disorders	1. Students will understand the basic causes of abnormal behavior & factors that cause it. 2. Students will understand the basic causes of abnormal behavior & factors that cause it.	1. Group discussion on substance abuse will be conducted. 2. Flip charts /posters will be made for awareness drives among students.	Assignments sheets will be given on NCERT based questions.
September	Chapter-5: Therapeutic approaches & Counseling  Practical: To administer an Aptitude Test (DBDA)	1.Students will familiarize themselves with the process of psychotherapy. 2.The students will understand the different therapies & related interventions. 3.They will learn about rehabilitation.  Practical: Students will gain confidence & expertise of conducting the psychological test on self.	1. Discussion on various therapies 2.They will conduct tests on their case study subject. 3.Preparation of mind maps as part of art integration.  Conduction and interpretation of the test.	Assignments will be given on the HOTS based questions on various therapies.
October	Chapter-6: Attitude & Social Cognition	1.The students will analyze attitudes, how they are formed & changed. 2.They will understand prosocial behavior. 3.They will comprehend the concept of prejudice, discrimination.	1. Class discussion & assignment sheets will be conducted. 2. Role play to be conducted on POX triangle. 3.As part of Desh Bhakti curriculum the students will be motivated to role play on various freedom fighters and exemplify which attitude change were they highlighting.	Revision assignments will be done.
November	Chapter-7: Social Influences & Group Processes	1. Students will understand the nature & types of groups & examine its effect on group behavior.	Group discussions will be extensively conducted to study group formation .	Assignments & text book questions will be done with practice of previous year questions and sample papers.

	<p>Revision of the Psychological tests.</p>	<p>1.They will discuss the process of co-operation &amp; competition.</p> <p>2.They will understand inter-group conflict.</p> <p>Practical: Students will gain confidence &amp; expertise of conducting the psychological test on self.</p>	<p>They will conduct tests on their case study sample.</p>	<p>Assignments will be based on previous year Board exams.</p>
--	---	---	--	--



**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**CURRICULUM**  
**SESSION: 2025-2026**  
**SUBJECT: ACCOUNTANCY**  
**CLASS: XII**

MONTH	TOPIC / SUB-TOPICS	LEARNING INTENTIONS	ACTIVITIES / ASSIGNMENTS
April	Partnership CH 1-Fundamentals of partnership          CH 2 Goodwill-Nature & Valuation	Meaning of Partnership Partnership Deed Profit & Loss Appropriation Account Partner's Capital Account To impart understanding skills   Meaning & Nature of Goodwill  Methods of valuation of Goodwill  To impart analytical skills	Assignment No. 1/  Role playing related to provisions of partnership deed     PPT related to nature & valuation of Goodwill
May	CH 3 Change in profit sharing ratio   CH 4 admission of a partner	Sacrificing Ratio And Gaining Ratio  Accounting Treatment of Goodwill	Assignment No. 2/



		Revaluation of Assets and Liabilities	Video presentation as art integrated activity on change in profit sharing ratio.
July	CH 5 Retirement of a partner CH 6 Death of a partner CH 7 Dissolution of Partnership firm	To develop the understanding & problem solving skills of treatment of goodwill ,revaluation of assets & liabilities on the retirement & death of a partner as well as at the time of dissolution of firm.	Assignment No.3/ Creative art integrated video presentation on retirement /death/dissolution.  Cross word puzzle based on terms used in partnership.
August	COMPANY ACCOUNTS CH 1 Issue of shares CH 2 Issue of debentures	To develop analytical skills of students as they learn about the types of shares & debentures and the ways they are issued to raise necessary capital of the company like issued at par or at premium.	Assignment No. 4/ quiz related to the chapter.
September	REVISION & HALF YEARLY EXAMS		
October	ANALYSIS OF FINANCIAL STATEMENTS.	To develop understanding skills for redemption of debentures including various terms like DRR	Assignment No.5 / PPT related to the topic.

	CH 1 Financial statements of a company CH 2 Financial statement analysis CH 3 Tools of Financial statement analysis		
November	CH 4 Accounting ratios CH 5 Cash flow statement	To develop technical skills of students in computing various ratios and also learning the way to prepare cash flow statement which will help them to prepare their projects as per CBSE.	Assignments on the related topics/Comprehensive and specific project as per CBSE

**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**

**ACADEMIC PLAN**

**SESSION: 2025-2026**

**SUBJECT-BIOLOGY**

**CLASS-XII**

<b><u>MONTH</u></b>	<b><u>TOPIC/SUBTOPIC</u></b>	<b><u>LEARNING INTENTIONS/SKILLS DEVELOPMENT</u></b>	<b><u>ACTIVITIES</u></b>	<b><u>ASSIGNMENTS</u></b>
<b><u>APRIL</u></b>	Unit: Reproduction Sexual reproduction in flowering plants	1.Students will understand the parts & functions of flower 2. They will be able to explain the development of male & female gametophyte 3.They will understand the pollination & double fertilisation 4.They will be able to explain the development of seed & fruit 5.They will be able to explain special mode of reproduction-Apomixis	1. Flower dissection  2. Slide showing pollen germination.  3. Controlled pollination.	Assignment sheet-1

	Unit: Reproduction Human Reproduction	1.Students will understand male & female reproductive system, anatomy of testis & ovary, 2.They will be able to explain Menstrual cycle, fertilization Embryo development & Implantation	1. Slide of testis & ovary(to understand structure and function) 2. Slide showing of Blastula.	Assignment sheet-2
<b><u>MAY</u></b>	Unit :Reproduction Reproductive health	1. Students will understand prevention of STD, Birth control method, MTP amniocentesis. 2.They will explain - Infertility & ART	To gather latest information about ART(newspaper and internet)  2. Population control measures.  3. Causes of Infertility.	Assignment sheet-3

<u><b>MAY</b></u>	Unit : Genetics & Evolution  Principles of inheritance	1 Students will understand .Mendelian inheritance, 2. They will understand-Deviation from Mendelism- Incomplete dominance, Codominance, Multiple alleles, Pleiotropy, Polygenic inheritance, 3.They will be able to explain sex determination methods- in humans, birds, honey bee 4.They will understand- Linkage & crossing over 5.They will be able to explain Sex linked inheritance- Haemophilia, Colour blindness Mendelian disorder- Thalassemia Chromosomal disorder- down's syndrome, Turner's syndrome, Klinfelter's syndrome	1. Pedigree analysis (Through charts )  2. Identification genetic diseases.	Assignment sheet-4
-------------------	--	---	---	--------------------

<b><u>JULY</u></b>	<p>Unit : Genetics &amp; Evolution</p> <p>Molecular basis of inheritance</p>	<p>1.students will understand the - DNA as genetic material Transforming principle Hershey &amp; Chase experiment</p> <p>2.They will explain - Structure of DNA &amp; RNA</p> <p>3.They will understand- DNA Replication, Meselson &amp; Stahl Experiment, mechanism of DNA replication</p> <p>4.They will understand- Central dogma, Transcription and Genetic code</p> <p>5.They will explain- Translation, Gene expression &amp; regulation- Lac Operon</p> <p>6.They will understand- Human Genome Project and DNA fingerprinting</p>	<p>Human genome project.</p> <p>DNA finger printing.</p> <p>Isolate DNA from plant material</p> <p>Make complimentary sequence of nucleotides</p>	<p>1.Assignment sheet -5</p> <p>2.Written explanation of experiments of different scientists</p>
<b><u>AUGUST</u></b>	<p>Unit : Biology in human welfare</p> <p>Microbes in human welfare</p>	<p>1.Students will understand the use of microbes in household food processing Industrial production Sewage Treatment</p>	<p>News reports</p> <p>Sewage treatment and Biogas</p>	<p>Assignment sheets-8</p>

		<p>Energy Production</p> <p>2.They will explain Biocontrol agent, Bio fertilizer, Antibiotics</p>		
	<p>Unit : Biology in human welfare</p> <p>Human health &amp; diseases</p>	<p>1.Students will understand Pathogen, Parasites causing human diseases( Malaria, Dengue, Chikungunya, Filariasis ) their control</p> <p>2.They will explain basic concept of immunology, vaccine Cancer, HIV- AIDS Adolescence-drug &amp; alcohol abuse</p>	<p>Immunology related research work.</p> <p>Study of slides showing various disease causing organismsand their life cycle</p>	<p>Assignment sheet-7</p> <p>News report on communicable and Non-communicable disease.</p>
	<p>Unit : Ecology</p> <p>Biodiversity &amp; conservation</p>	<p>1. Students will understand the concepts &amp; patterns of biodiversity.</p> <p>2.They will explain loss &amp; Conservation of biodiversity Hotspots, Endangered organisms. Extinction Red data book, biosphere reserves, National parks, Sanctuaries &amp; Ramsar sites.</p>	<p>Assignment sheet-12</p> <p>Collect information on biosphere reserves, Hot spot and endangered species.</p>	

<b><u>SEPTEMBER</u></b>	Unit : Ecology  Organisms & Population	1. Students will understand the They will explain Ecological adaptations, Population interaction ( mutualism, competition etc ) Population attributes ( growth, birth rate etc )	Assignment sheet-13	
	<b><u>HALF YRARLY EXAM 2025-26</u></b>			



<b><u>OCTOBER</u></b>	Unit ; Biotechnology  Biotechnology Principles & Processes	1.Students will understand -Genetic Engineering ( r DNA Technology),role of Restriction endonuclease, Cloning Vector 2.They will explain the Process of Recombinant DNA Technology, Production of Transgenic Individuals and Downstream Processing	Assignment sheet-9 Latest uses of Biotechnology in everyday life(collect material from newspaper, internet)	
<b><u>NOVEMBER</u></b>	Unit ; Biotechnology  Biotechnology & Application	1.Students will understand application of Biotechnology in health, Agriculture & Industry 2.They will explain- RNA i, Transgenic animals Gene Therapy, Molecular diagnostics, Ethical issues, Bio piracy, Bio patent	Gather information about latest research in the field of Biotechnology  Study Details on tissue culture through videos	Assignment sheet-10

	Unit : Genetics & Evolution  Evolution	1. Students will understand the concept of Origin of life, biological evolution & evidence. 2.They will explain Darwin's contribution., modern synthetic theory, mechanism of Evolution, variations & natural selection, Hardy Weinberg's Principle, Adaptive radiation and Human Evolution	Study homologous and analogous organs from plants and animals	Assignment sheet-7
--	---	--	---	--------------------



**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**Academic Plan**  
**SESSION: 2025-26**  
**SUBJECT: Business Studies**\_\_\_\_\_  
**CLASS: XII**\_\_\_\_\_

MONTH	TOPIC / SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES / ASSIGNMENTS
April	<b>Nature and significance of Management</b>	Students will be able to understand the concept of management. Objectives and importance of management. Nature of management as Science, Art and Profession. Role of top, middle and lower levels of management. Functions of management, Coordination-concept features, importance. How to coordinate with others which helps in effective utilization of resources.	Assignment no-1  PPT  <b>Mind maps</b>
	<b>Principles of Management</b>	Students will be able to understand the concept of principles of management. Significance of management.	Assignment-2  <b>Crossword puzzle</b>  PPT

<b>May</b>	<b>Principles of Management</b>  <b>(cont.) Business Environment</b>	<p>Students will be able to understand Fayol's Principles of management. Principles and techniques of FW Taylor, value of team spirit.</p> <p>Students will be able to understand the concept of business environment, its importance and dimensions of business environment.</p> <p>Demonetisation -concept Impact of govt policy changes on business with special reference to LPG in India.</p>	<b>Basketball match</b>  Assignment 3
<b>June</b>		Summer Holidays	



<b>August</b>	<b>Staffing</b>	<p>Students will be able to understand the concept of Staffing , staffing as a part of Human Resource Management ,Steps of Staffing. Recruitment-meaning and typSelection-meaning and process. Training-meaning ,importance and methods of training. es.</p>	<p>Assignment 6 Group discussion</p>
<b>September</b>	<b>Directing</b>	<p>Half yearly examination followed by Directing</p> <p>Students will be able to understand concept, elements and the importance of directing.</p>	<p>Assignment 7 <b>Role play</b></p>



<b>November</b>	<b>Financial Management</b>	<p>After going through this unit students will be able to understand: Role of financial management . Concept of financial planning . Concept of capital structure,factors affecting capital structure .</p> <p>Concept of fixed and working capital, factors affecting.</p>	<p>Assignment 9</p> <p>PPT</p>
	<b>Financial market</b>	<p>Understand the concept and functions of financial market Meaning and classification of Capital market-Primary and Secondary</p> <p>Stock Exchange - functions,SEBI Objectives and functions</p>	<p>Assignment 10</p> <p>PPT</p>
	<b>Marketing Management</b>	<p>Discussion on negative effects of Price rigging and insiders trading.</p> <p>tudents will be able to understand the concept of marketing. They will be able to discuss philosophies of marketing, features and functions of marketing management.</p> <p>Marketing mix – concept and elements that are price,product, place and promotion.pc</p>	<p><b>PPT</b></p> <p><b>Quiz based on brand names,logos and tagline</b></p>
	<b>Consumer Protection Act</b>	<p>Concept of consumer protection</p>	<p>Assignment 1a1</p> <p>Assignment 11</p> <p><b>Poster on Rights of consumer</b></p>



		<p>Rights ,Responsibilities and remedies available to the consumer .Importance of Consumer Protection .</p>	
--	--	---	--



**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**CURRICULUM**  
**SESSION: 2025-26**  
**SUBJECT : CHEMISTRY**  
**CLASS : XII**

<u>MONTH</u>	<u>TOPICS / SUBTOPICS</u>	<u>LEARNING INTENTIONS</u>	<u>ACTIVITIES</u>	<u>ASSIGNMENTS</u>
April	Unit6 -Haloalkanes & Haloarenes	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>• name haloalkanes and haloarenes according to the IUPAC system of nomenclature from their given structures;</li> <li>• describe the reactions involved in the preparation of haloalkanes and haloarenes and understand various reactions that they undergo;</li> <li>• correlate the structures of haloalkanes and haloarenes with various types of reactions;</li> <li>• use stereochemistry as a tool for understanding the reaction mechanism;</li> <li>• appreciate the applications of organo-metallic compounds;</li> </ul>	Students will make comic strips to explain name reactions and reasoning based questions in an easy manner as an art activity.	<p><b>(Quizzes made online for various topics will be shared from time to time for practising MCQs)</b></p> <p>IUPAC nomenclature based questions from solved examples, Intext questions and exercise questions will be given for practice.</p> <p>Intext and a few exercise questions from NCERT textbook depending upon the topic discussed in the class ,will be given to students as an assignment.</p>



		<ul style="list-style-type: none"> <li>• express concentration of solution in different units;</li> <li>• state and explain Henry's law and Raoult's law;</li> <li>• distinguish between ideal and non-ideal solutions;</li> <li>• explain deviations of real solutions from Raoult's law;</li> <li>• describe colligative properties of solutions and correlate these with molar masses of the solutes;</li> <li>• explain abnormal colligative properties exhibited by some solutes in solutions.</li> </ul>	<p>Group discussion about importance of remaining hydrated <i>during <b>sports activities</b> and role of different solutions for <b>sports injuries</b>.</i></p>	<p>Neumericals and theoretical questions based on different concepts will be discussed in class followed by assigning similar questions from the NCERT textbook and exemplar exercise after every class</p>
--	--	--	---	---

July	Unit 8-Aldehydes, ketones & Carboxylic acids	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>• write the common and IUPAC names of aldehydes, ketones and carboxylic acids;</li> <li>• write the structures of the compounds containing functional groups namely carbonyl and carboxyl groups;</li> <li>• describe the important methods of preparation and reactions of these classes of compounds;</li> <li>• correlate physical properties and chemical reactions of aldehydes, ketones and carboxylic acids, with their structures;</li> <li>• explain the mechanism of a few selected reactions of aldehydes and ketones;</li> <li>• understand various factors affecting the acidity of carboxylic acids and their reactions;</li> <li>• describe the uses of aldehydes, ketones and carboxylic acids.</li> </ul>	Chemical distinction tests will be performed by the students in chemistry lab.	<p>Questions based on IUPAC naming, name reactions, conversions, reasoning etc will be discussed in the class along with every type of compounds and more questions will be given from the exercise in the NCERT textbook.</p> <p>Students will be asked to do all MCQs from the NCERT Exemplar.</p>
	Unit 9- Amines	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>• describe amines as derivatives of ammonia having a pyramidal structure;</li> <li>• classify amines as primary, secondary and tertiary; · name amines by</li> </ul>	Students will be asked to carry out an activity in the form of art integrated project to show preparation & uses of dyes/colours.	Specific NCERT textbook and exemplar questions (Apart from the ones done in class) will be given as assignment

		<p>common names and IUPAC system; describe some of the important methods of preparation of amines;</p> <ul style="list-style-type: none"> <li>● explain the properties of amines;</li> <li>● distinguish between primary, secondary and tertiary amines;</li> <li>● describe the method of preparation of diazonium salts and their importance in the synthesis of a series of aromatic compounds including azo dyes. describe of the important methods of preparation of amines;</li> <li>● explain the properties of amines;</li> <li>● distinguish between primary, secondary and tertiary amines;</li> <li>● describe the method of preparation of diazonium salts and their importance in the synthesis of a series of aromatic compounds including azo dyes.</li> </ul>		
--	--	---	--	--

August	Unit2- Electrochemistry	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>• describe an electrochemical cell and differentiate between galvanic and electrolytic cells;</li> <li>• apply Nernst equation for calculating the emf of galvanic cell and define standard potential of the cell;</li> <li>• derive relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant;</li> <li>• define resistivity (<math>\rho</math>), conductivity (<math>\kappa</math>) and molar conductivity (<math>\Lambda_m</math>) of ionic solutions;</li> <li>• describe the method for measurement of conductivity of electrolytic solutions and calculation of their molar conductivity;</li> <li>• justify the variation of conductivity and molar conductivity of solutions with change in their concentration and define <math>\Lambda_m^\infty</math> (molar conductivity at zero concentration or infinite dilution);</li> <li>• enunciate Kohlrausch law and learn its applications;</li> <li>• understand quantitative aspects of electrolysis;</li> <li>• describe the construction of some primary and secondary batteries and fuel cells;</li> <li>• explain corrosion as an electrochemical process.</li> </ul>	<p>Students will be guided to carry out investigatory projects based on electrochemical cells and study the effect of different factors affecting conductance.</p>	<p>Neumericals and theoretical questions based on different concepts will be discussed in class followed by assigning similar questions from the NCERT textbook and exemplar exercise after every class</p>
--------	----------------------------	--	--	---



	Unit3-Chemical Kinetics	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>● define the average and instantaneous rate of a reaction;</li> <li>● express the rate of a reaction in terms of change in concentration of either of the reactants or products with time;</li> <li>● distinguish between elementary and complex reactions;</li> <li>● differentiate between the molecularity and order of a reaction;</li> <li>● define rate constant;</li> <li>● discuss the dependence of rate of reactions on concentration, temperature and catalyst; · derive integrated rate equations for the zero and first order reactions;</li> <li>● determine the rate constants for zeroth and first order reactions;</li> <li>● describe collision theory.</li> </ul>	<p>To study the effect of concentration of the reactant on the rate of the reaction, an experiment will be carried out followed by plotting of graph to understand the order of reaction.</p> <p><b><i>Students to be taught to use lab apparatus carefully and should be responsible enough to not to damage school property ( DC).</i></b></p>	<p>NCERT textbook exercise and exemplar questions on every topic will be given as an assignment after discussing the solved examples and Intext questions on respective topics.</p>
September	Half yearly Examination.			

October	Unit4- d & f -Block Elements	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>● learn the positions of the d– and f-block elements in the periodic table</li> <li>● know the electronic configurations of the transition (d-block) and the inner transition (f-block) elements</li> <li>● appreciate the relative stability of various oxidation states in terms of electrode potential values;</li> <li>● describe the preparation, properties, structures and uses of some important compounds such as <math>K_2Cr_2O_7</math> and <math>KMnO_4</math>.</li> <li>● understand the general characteristics of the d– and f–block elements and the general horizontal and group trends in them;</li> <li>● describe the properties of the f-block elements and give a comparative</li> <li>● account of the lanthanoids and actinoids with respect to their electronic configurations, oxidation states and chemical behaviour.</li> </ul>	<p>An <b>art activity</b> of making mind maps for salt analysis schemes will be taken up by students.</p> <p><b>Art based activity</b> to show applications of d&amp;f block elements as crossword puzzle or in the form of any other interesting game will be made by students.</p>	NCERT solved examples, Intext and exercise questions will be given as assignment.
	Unit5- Co-ordination compounds	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>● appreciate the postulates of Werner’s theory of coordination compounds;</li> <li>● know the meaning of the terms:</li> </ul>		

		<p>coordination entity, central atom/ ion, ligand, coordination number, coordination sphere, coordination polyhedron, oxidation number, homoleptic and heteroleptic;</p> <ul style="list-style-type: none"> <li>• learn the rules of nomenclature of coordination compounds;</li> <li>• write the formulas and names of mononuclear coordination compounds</li> <li>• define different types of isomerism in coordination compounds;</li> <li>• understand the nature of bonding in coordination compounds in terms of the Valence Bond and Crystal Field theories;</li> <li>• appreciate the importance and applications of coordination compounds in our day to day life</li> </ul>	Students will be asked to make mindmap for IUPAC naming and applications of Coordination compounds.	NCERT textbook exercise and exemplar questions on every topic will be given as an assignment after discussing the solved examples and Intext questions on respective topics.
November	Unit10- Biomolecules	<p>After studying this Unit, students will be able to</p> <ul style="list-style-type: none"> <li>• explain the characteristics of biomolecules like carbohydrates, proteins and nucleic acids and hormones;</li> <li>• classify carbohydrates, proteins, nucleic acids and vitamins on the basis of their structures;</li> <li>• explain the difference between DNA and RNA;</li> <li>• describe the role of biomolecules in biosystem</li> </ul>	Students will be guided to use Adobe applications like text to image to show applications/ importance of biomolecules for industry, <b>sports</b> ,art and daily life.	NCERT exercise questions and questions from board papers of previous years' will be given as assignments.



# Hansraj Model School, Punjabi Bagh, New Delhi

## CURRICULUM PLAN

Session: 2025-2026

Computer Science (083)

Class: XII

Month	Topic / Sub Topics	Learning intentions	Activities	Assignments
April	<b>Unit I: Computational Thinking and Programming – 2</b> <ul style="list-style-type: none"> <li>Revision of Python topics covered in Class XI.</li> <li><b>Functions:</b> types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)</li> </ul>	<b>To be able to:</b> <ul style="list-style-type: none"> <li>understand function types, parameter types, scope of variables</li> <li>define functions</li> <li>create modules</li> <li>reuse code</li> </ul>	<b>Warm -Up Discussion:</b> Ask students: <i>"If you were throwing a party, what are all the things you would have to do?"</i> Encourage them to think of clear, specific tasks like: <ul style="list-style-type: none"> <li>Send invitations</li> <li>Decorate the room</li> <li>Arrange Food</li> <li>Play music</li> <li>Welcome guests</li> </ul> <b>Group Brainstorm:</b> Create "Party Functions" write down responses as function names: def send_invitations(): def decorate_room(): def order_food(): def play_music(): def welcome_guests():	<b>MCQ Quizzes:</b> <b>Quiz 1 :</b> Based on Python Basics <b>Quiz 2 :</b> Based on Python Data Types, Built-In functions <b>Quiz 3:</b> Based on function, parameters and local, global variable scope.  <b>Practical Assignment No. 1</b> (Based on User Defined Functions in Python)
May	<b>Unit I: Computational Thinking and Programming – 2</b> <ul style="list-style-type: none"> <li><b>Exception Handling:</b> Introduction, handling exceptions using try-except-finally blocks.</li> <li><b>Data Structure: Stack</b> operations on stack (push &amp;</li> </ul>	<b>To be able to:</b> <ul style="list-style-type: none"> <li>differentiate between errors and exceptions</li> <li>write code to handle common exceptions and customise error messages</li> <li>understand the applications of stack in computing</li> </ul>	<b>Debugging Challenge - Fix the Code:</b> Code snippets with intentional errors and exceptions will be provided to students and they will point and fix the errors.  <b>Tower of Hanoi Puzzle</b>	<b>Practical Assignment No. 2</b> (Based on Python Exceptions)  <b>Practical Assignment No. 3</b> (Based on Stacks using Lists in Python)

	<p>pop), implementation of stack using list.</p> <ul style="list-style-type: none"> <li>• Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths</li> <li>• <b>Text file:</b> opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file</li> </ul>	<ul style="list-style-type: none"> <li>• compare text file with binary file</li> <li>• differentiate between text and csv file</li> <li>• read/ write from a text file in different ways</li> </ul>	<p><b>Scavenger Hunt</b></p> <p><b>Simulate the Actions of Digital Diary App to Add Entry and View All Entries:</b> Students will list the steps like: open diary , place pointer at the end, write new journal etc. which will build the concept of reading / writing and moving file pointer in files.</p>	<p><b>Practical Assignment No. 4</b> (Based on Text Files in Python)</p> <p><b>MCQ Quizzes:</b> <b>Quiz 4:</b> Identify errors in code <b>Quiz 5:</b> Stack Implementation <b>Quiz 6:</b> File Handling</p>
<b>July</b>	<p><b>Unit I: Computational Thinking and Programming – 2</b></p> <ul style="list-style-type: none"> <li>• <b>Binary file:</b> basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file</li> <li>• <b>CSV file:</b> import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()</li> </ul>	<p><b>To be able to:</b></p> <ul style="list-style-type: none"> <li>• read/ write from a binary file in different ways</li> <li>• compare text file and csv file</li> <li>• read/write from a csv file</li> </ul>	<p><b>Exploring csv datasets on Git Hub / Kaggle.com</b></p>	<p><b>Practical Assignment No. 5</b> (Based on Binary Files in Python)</p> <p><b>Practical Assignment No. 6</b> (Based on CSV Files in Python)</p> <p><b>MCQ Quizzes:</b> <b>Quiz 7:</b> Binary &amp; CSV Files</p>



	connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries.	<ul style="list-style-type: none"> <li>• use database concepts, SQL along with connectivity between Python and SQL</li> <li>• create a Python interface and perform SQL operations using Python SQL connectivity</li> </ul>		<b>Quiz 8:</b> Based on DB Concepts <b>Quiz 9:</b> Based on SQL
<b>September</b>	<b>Revision Half Yearly Exams</b>		<b>Creating Memory Maps for revision</b>	<b>Solving SQPs</b>
<b>October</b>	<b>Unit II: Computer Networks</b> <ul style="list-style-type: none"> <li>• <b>Evolution</b> of networking: (ARPANET, NSFNET, INTERNET)</li> <li>• <b>Data communication terminologies:</b> (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)</li> <li>• <b>Transmission media:</b> Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)</li> <li>• <b>Network devices</b> (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> <li>• <b>Network topologies</b> (PAN, LAN, MAN, WAN) and Network types (Bus, Star, Tree)</li> <li>• <b>Network protocol:</b> HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP</li> </ul>	<b>To be able to:</b> <ul style="list-style-type: none"> <li>• learn terminology related to networking and internet.</li> <li>• suggest appropriate the cable layout, transmission media and network type for a given case study.</li> <li>• understand and identify different protocols and their purpose</li> <li>• compare static and dynamic Markup languages</li> </ul>	<b>Lab Board Decoration with relevant news articles</b>	<b>Worksheet</b> on Network Case Study questions  <b>Competing Project work in Lab</b>



	<p>● <b>Introduction to web services:</b> WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</p> <p><b>Project Work</b></p>			
<b>November</b>	<b>Sample paper solution and Revision</b>	<p>To be able to</p> <ul style="list-style-type: none"> <li>• consolidate concepts</li> <li>• apply the understanding of concepts to solve problems</li> </ul>	<b>Creating Topic-wise Mind Maps</b>	<p><b>Discuss previous year question papers</b></p> <p><b>Competing Project work in Lab</b></p>
<b>December</b>		<p>To be able to</p> <ul style="list-style-type: none"> <li>• consolidate concepts</li> <li>• overcome mistakes</li> <li>• apply knowledge to solve questions</li> <li>• manage time better to solve paper questions</li> </ul>	-	<b>CBSE Sample Paper, Previous year CBSE paper</b>

**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**CURRICULUM**  
**SESSION: 2025-26**  
**ECONOMICS**  
**CLASS-XII**

MONTH	UNIT/TOPICS	LEARNING INTENTIONS (Learning outcomes+Competencies)	ACTIVITIES	ASSIGNMENTS
April	<p><b>Development experience (1947-90)</b></p> <ul style="list-style-type: none"> <li>Indian economy on the eve of independence Agricultural Sector Industrial Sector Foreign Trade Demographic condition Occupational structure and infrastructure development</li> <li>Indian economy 1950-1990 Economic planning, goals of economic planning Agricultural sector-problems and policies, Debate on subsidies Role of Public Sector Industrial policy resolution 1956 Role of small scale industries Inward looking trade strategy</li> </ul>	<p>Students will be able to apply the knowledge for understanding state of Indian economy on the eve of independence</p> <p>Students- <b>Assimilate</b> about choice of Mixed economic system in India after Independence</p> <p>Grasp and understand Era of economic planning and long term goals of economic planning Land reform measures adopted to solve land related problems Adoption of new agricultural strategy resulting in green revolution Analyse positive and negative impact</p>	<p>PPT, TIMELINE THROUGH FLOW CHART,</p> <p>ALPHABET QUIZ PPT, CROSSWORD PUZZLE</p>	<p>Assignment All types of MCQ'S</p>

	<p>or import substitution policy</p> <p>Critical evaluation of industrial and trade policies</p>	<p>of agricultural policies</p> <p>Enhance Critical thinking</p> <p>Encourage Problem solving</p>		
--	--	---	--	--



	<p>Circular flow of income  Methods of measurement of National Income  Product Method  Income distribution method  Final Expenditure method  Precautions taken while measuring national income using three methods.</p> <p>GDP and Welfare</p>	<p>Students-  Comprehend circular flow of income and know about triple identity i.e  National product= National Income = National Expenditure  Understand and apply three methods of measurement of National Income  Identify the precautions to be taken while measuring income using three methods</p>	<p>VIDEO, PPT  MIND MAPPING</p>	<p>Assignment  (Numericals)</p>
--	--	--	-------------------------------------	-------------------------------------

	<p>Meaning of Real GDP Nominal GDP Welfare, Economic and social welfare. Limitations of GDP as an indicator of Economic welfare.</p>	<p>Understand the meaning of real and nominal GDP Know the procedure to convert nominal GDP to nominal GDP Identify the limitations of GDP as an indicator of Economic welfare.</p>		
	<ul style="list-style-type: none"> <li>• Money and Banking Meaning and functions of money Money supply Money creation by commercial banks Functions of central bank</li> </ul>	<p>Students- Understand the meaning of money and functional definition of money. Know about the functions of money Meaning and difference of Central and Commercial banks to be understood along with money creation process by Commercial banks and functions of central bank.</p>	FLOW CHART PPT, MIND MAPPING	Assignment MCQ'S of all types Assignment Source based questions
	<ul style="list-style-type: none"> <li>• Govt Budget and Economy Meaning Format and structure of Govt. Budget Budgetary deficits Objectives of Govt Budget</li> </ul>	<p>Know about meaning and format of Government budget Understand and classify type of budgetary receipts as Revenue and Capital receipts. Identify and classify Budgetary expenditure as Revenue and Capital Expenditure Analyse various budgetary deficits as Revenue deficit, Fiscal deficit and Primary deficit. Understand various objectives of Govt. Budget.</p>		

		.		
AUGUST	<ul style="list-style-type: none"> <li>Human capital formation Sources and importance of Human Capital Formation in India</li> <li>Rural Development Key issues- Rural Credit Marketing Diversification Organic farming</li> </ul>	<p>Understand Meaning of Human capital, human capital formation and human development They will be able to know about sources of human capital formation Role of human capital formation in economic development and also the importance of human capital formation in India. Evaluate the future prospects and various problems in human capital formation in India.</p> <p>Grasp and Comprehend Issues under rural development. Will have the knowledge of sources of rural credit, challenges and measures. Will have understanding of agricultural marketing, channels of agricultural marketing, problems and measures undertaken by the Government to improve agricultural marketing system They will have the knowledge of agricultural diversification and organic farming. They will be able to develop Analytical and Problem solving skills.</p>	<p>VIDEO, STORY LINE</p> <p>PPT, COLLAGE HOCKEY MATCH, RELAY RACE, HURDLE RACE</p>	<p>Assignment Source based competency questions</p> <p>Assignment Case study based questions</p>

	<ul style="list-style-type: none"> <li>Foreign exchange and BOP Types of Foreign exchange rates Determination of Flexible Exchange rate Format of BOP</li> </ul>	<p>Grasp and understand the concepts of foreign exchange, Foreign exchange rates, foreign exchange market Types of foreign exchange rates as- Fixed exchange rate Floating exchange rate Managed Floating exchange rate. Determination of foreign exchange rates Meaning of balance of payments, components of balance of payments. Deficits in BOP Develop skills to observe the BOP position of India</p>	PPT, CONCEPT MAP	Assignment Example based questions
SEPTEMBER	REVISION HALF YEARLY EXAMINATION			
OCTOBER	<ul style="list-style-type: none"> <li>Theory of income and employment</li> </ul>	<p>Comprehend the basic concepts like Ex-ante, ex post, aggregate demand, aggregate supply, APC, APS, MPS, Investment multiplier. They can relate and understand the Keynesian theory of income and employment with all the basic concepts. They can analyse the situations of excess and deficient demand</p>	PPT,	Assignment (Numericals) Short and long answer type questions



	<ul style="list-style-type: none"> <li>• Employment and growth issues</li> </ul>	<p>Know and apply the measures to check both situations. Develop critical thinking, application and Analytical skills.</p> <p>Various issues relating to employment will be studied by the students like nature, quality of employment, distribution of workforce, Type of workers, jobless growth, informalisation and casualisation of workforce issues will also be understood by the students Various causes of unemployment, impact and measures undertaken will be understood by the students.</p> <p>.</p>	PPT, QUIZ	Assignment Analysis based questions
NOVEMBER	<ul style="list-style-type: none"> <li>• Environment and sustainable development</li> </ul>	<p>.</p> <p>Various issues relating to employment will be studied by the students like nature, quality of employment, distribution of workforce, Type of workers, jobless growth, informalisation and casualisation of workforce issues will also be understood by the students Various causes of unemployment, impact and measures undertaken will be understood by the students.</p> <p>.</p>	COLLAGE MAKING	Assignment Picture based questions



HANSRAJ MODEL SCHOOL  
PUNJABI BAGH, NEW DELHI  
ACADEMIC PLAN  
SESSION: 2025- 2026  
SUBJECT: ENGINEERING GRAPHICS  
CLASS: XII

MONTH	TOPIC/ SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENT
April	Isometric projection <ul style="list-style-type: none"> <li>• Iso scale</li> <li>• Single solid</li> <li>• Double solid</li> </ul>	Understands isometric projection  Able to draw iso-scale & knows its purpose  Able to draw single solid in vertical & horizontal position  Able to draw one solid over another in different combination	Activity (includes art integration) : Make model of prisms and pyramids by paper folding and analyze solids in horizontal and vertical positions	Draw iso-scale  Assignment-1 on isometric projection
May	Machine parts (To full size scale) <ul style="list-style-type: none"> <li>• Threads</li> <li>• Nuts</li> <li>• Bolts</li> </ul>	Understands the use of different types of fasteners  Able to draw views of different fasteners with standard dimensions	Activity : Study the models of nuts and bolts and analyze different views.  Project: Soft & Hard copy of isometric & orthographic views of	Assignments on Machine Parts – (To full size scale)  Assignment – 2 on Threads  Assignment -3 on Nuts & Bolts Assignment -4 on combination of Nut & Bolt

	Project-Collabcad	Can draw iso & orthographic views using cad software	15 simple solids (Follow instructions from CAD PROJECT	
July	Machine parts (free hand sketches) <ul style="list-style-type: none"> <li>• Studs</li> <li>• Rivets</li> <li>• Screws</li> </ul> Machine blocks (15 blocks)	Understands the purpose of free-hand sketching  Able to draw free hand sketches of fasteners  Able to draw isometric view & missing view from two given views.	Activity (teaching moral values also) Draw and cut the models of prescribed machine blocks( Take care of your surroundings and keep it clean during the activity)	Assignment -5 on Machine parts - free hand sketches  Assignment – 6 on Machine blocks
August	Assembly/ disassembly  Bearings <ul style="list-style-type: none"> <li>• Open bearing</li> <li>• Bushed bearing</li> </ul> Rod joints <ul style="list-style-type: none"> <li>• Sleeve &amp; cotter joint</li> <li>• Gib &amp; cotter joint</li> </ul>	Knows the details of all parts of bearings & rod joints  Able to assemble different types of bearings & rod joints  Understands different types of section	Activity : Study the model of bearings and rod- joints from different angles.	Assignment -7 on Assembly/Disassembly of Machine Parts  Assembly of Question No.-1-4

September	<ul style="list-style-type: none"> <li>Bearings &amp; Rod joints</li> </ul>	Able to disassemble different types of bearings & rod joints		Assignment – 7  Disassembly of Question No. 1-4
October	Tie rod & pipe joint <ul style="list-style-type: none"> <li>Turnbuckle</li> <li>Flange pipe joint</li> </ul>	Knows the details of all parts of tie rod & pipe joint, couplings & pulley Able to assemble tie rod & pipe joint, couplings & pulley  Understands different types of section	Activity : Study models of Tie-rod ,pipe joint for different type of views	Assignment No-7  Assembly of Question No. 5&6
November	Tie rod & pipe joint	Able to disassemble Tie rod & pipe joint,		Assignment NO 7  Disassembly of Question No. 5&6

# Hansraj Model School, Punjabi Bagh, New Delhi

## CURRICULUM PLAN

Session: 2025-2026

Informatics Practices (065)

Class: XII

Month	Topic / Sub Topics	Learning intentions	Activities	Assignments
April	<b>Unit 1: Data Handling using Pandas -I</b> <ul style="list-style-type: none"><li>• Introduction to Python libraries- Pandas, Numpy, Matplotlib.</li><li>• <b>Data structures in Pandas</b> - Series and Data Frames.</li><li>• <b>Series:</b> Creation from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.</li></ul>	<b>To be able to:</b> <ul style="list-style-type: none"><li>• install Pandas, Matplotlib</li><li>• create Series from different data types</li><li>• access and modify data within Series using positional and label based indexing</li><li>• perform slicing, arithmetic operations on Series</li><li>• use Series attributes and methods</li><li>• understand how series can be used as building blocks for data frame</li></ul>	<b>Analyse real world data sets</b> and store it in a Series. eg. No. of steps walked in a weekday, Price of favourite items in a store, list of career options etc.	<b>Practical Assignment No. 1</b> (Based on Pandas Series Creation and Operations)
May	<b>Unit 1: Data Handling using Pandas -I</b> <ul style="list-style-type: none"><li>• <b>Data Frames: creation</b> - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing;</li><li>• <b>Importing/Exporting Data between CSV files and Data Frames.</b></li></ul>	<b>To be able to:</b> <ul style="list-style-type: none"><li>• create data frame in different ways and apply various operations</li><li>• Import/ Export data between SQL database and Pandas</li><li>• perform analysis on data in a csv file by using pandas data structures in Python</li></ul>	<b>Data Detective – Explore Your Own Dataset</b> Students download a data set of their choice and create 5 questions on it	<b>Practical Assignment No. 2</b> (Based on Pandas Data Frame Creation and Operations)




<b>July</b>	<p><b>Unit 1: Data Handling using Pandas -I</b></p> <ul style="list-style-type: none"> <li>● <b>Data Visualization</b> : Purpose of plotting; drawing and saving following types of plots using Matplotlib – line , bar , histogram.</li> </ul> <p>Customizing plots: adding label, title, legend</p> <p><b>Unit 4: Societal Impacts</b></p> <ul style="list-style-type: none"> <li>● Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act.</li> <li>● E-waste: hazards and management.</li> <li>● Awareness about health concerns related to the usage of technology.</li> </ul>	<p><b>To be able to:</b></p> <ul style="list-style-type: none"> <li>● visualize data by creating appropriate plots using pyplot library</li>   <li>● Identify internet security issues and configure browser settings.</li> <li>● Understand the impact of technology on society including gender and disability issues</li> </ul>	<p><b>Tell a Visual Story –</b> Students will create different plots on topics the following topics:</p> <ul style="list-style-type: none"> <li>● Daily temperatures for a week,</li> <li>● My Score Card,</li> <li>● Number of daily time on social media</li> </ul> <p><b>Show a Video/ Movie on –</b></p> <ul style="list-style-type: none"> <li>● List of Cyber Crimes with real life stories of victims.</li> </ul> <p><b>Explore X</b> Report 2 latest posts by victims on <b>CyberDost</b> Handle</p> <p><b>Digital Collage</b> on Cyber Crimes or Cyber Laws</p>	<p><b>Practical Assignment No. 3</b> (Based on Data Visualization)</p>
<b>August</b>	<p><b>Revision of database concepts and SQL commands done in class XI</b></p> <p><b>Unit 2: Database Query using SQL</b></p> <ul style="list-style-type: none"> <li>● <b>Math functions:</b> POWER (), ROUND (), MOD()</li> <li>● <b>Text functions:</b> UCASE ()/UPPER (), LCASE()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().</li> </ul>	<p><b>To be able to:</b></p> <ul style="list-style-type: none"> <li>● Predict the output of SQL functions</li> <li>● Apply SQL functions while writing SQL queries</li> </ul>	<p><b>SQL Function Treasure Hunt</b> Based on the table: Student(rn, name, age,score, dateofbirth) Students will be given clue cards having questions like:</p> <ul style="list-style-type: none"> <li>● Find the name of the student with the longest name.</li> <li>● Round off all scores to the nearest whole number</li> <li>● Display the birth month of a given student</li> </ul>	<p><b>Practical Assignment No. 4</b> (Based on User Defined Functions in Python)</p>

	<ul style="list-style-type: none"> <li>• <b>Date Functions:</b> NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().</li> </ul>		Students will have to write the name of the SQL function used in the given question.	
<b>August</b>	<b>Unit 2: Database Query using SQL</b> <ul style="list-style-type: none"> <li>• Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).</li> <li>• GROUP BY, HAVING, ORDER BY Clauses</li> <li>• EQUI Join</li> </ul>	<b>To be able to:</b> <ul style="list-style-type: none"> <li>• write complex queries using aggregate functions, GROUP BY, HAVING clause</li> <li>• construct queries to retrieve data from multiple tables</li> <li>• evaluate the output produced by SQL queries using joins and functions</li> </ul>	Identify Related Tables	<b>Practical Assignment No. 5</b> (Based on SQL Group functions & GROUP BY/ HAVING )  <b>Practical Assignment No. 6</b> (Based on Equi Join in SQL)
<b>September</b>	<b>Revision Half Yearly Exams</b>	To be able to <ul style="list-style-type: none"> <li>• Consolidate and apply concepts learned</li> </ul>	<b>Creating Memory Maps for revision</b>	<b>Solving SQPs</b>
<b>October</b>	<b>Unit 3: Introduction to Computer Networks</b> <ul style="list-style-type: none"> <li>• Introduction to networks, Types of network:  LAN, MAN, WAN.</li> <li>• Network Devices: modem, hub, switch, repeater, router, gateway</li> <li>• Network Topologies: Star, Bus, Tree, Mesh.</li> <li>• Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP.</li> <li>• Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website.</li> <li>• Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plugins, cookies.</li> </ul>	<b>To be able to:</b> <ul style="list-style-type: none"> <li>• learn terminology related to networking and internet.</li> <li>• identify types of networks based on geographical spread and arrangement of nodes</li> <li>• list a few network devices</li> <li>• decide and suggest most effective network topology on the basis of different parameters</li> <li>• compare static and dynamic websites</li> <li>• install/ uninstall plug-ins and add-ons in web browser</li> </ul>	<b>Lab Board Decoration with relevant news articles</b>	<b>Competing Project work in Lab</b>





<b>November</b>	<b>Sample paper solution and Revision for Pre Board Exams</b>	<ul style="list-style-type: none"> <li>• To identify gaps in their understanding</li> <li>• To reinforce the retention and application of knowledge by revisiting and practicing previously learned material.</li> </ul>	<b>Creating Topic-wise Mind Maps</b>	<b>Discuss previous year question papers</b>  <b>Competing Project work in Lab</b>
<b>December</b>	<b>Revision for Pre Board Exams</b>	<ul style="list-style-type: none"> <li>• To reinforce the retention and application of knowledge by practicing questions</li> </ul>		<b>Solve CBSE Sample Papers</b>

**HANSRAJ MODEL SCHOOL**  
**PUNJABI BAGH, NEW DELHI**  
**CURRICULUM PLAN**  
**SESSION: 2025-2026**  
**CLASS: \_XII**  
**SUBJECT: \_PHYSICAL EDUCATION**





<b>MONTH</b>	<b>TOPIC / SUBTOPICS</b>	<b>LEARNING INTENTIONS (Learning outcomes+Competencies)</b>	<b>ACTIVITIES / ASSIGNMENTS</b>
APRIL	Unit I Management of Sporting Events <ul style="list-style-type: none"> <li>• Functions of Sports Events Management (Planning, Organising, Staffing, Directing &amp; Controlling)</li> <li>• Various Committees &amp; their Responsibilities (pre; during &amp; post)</li> <li>• Fixtures and its Procedures – Knock-Out (Bye &amp; Seeding) &amp; League (Staircase &amp; Cyclic)</li> </ul> 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance 5. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)	1. After getting complete knowledge regarding fixtures etc. students can independently organize interclass tournaments etc.  2. They will be able to conduct specific sports (Run for fun) marathons to collect funds for a noble cause. 3. To teach them about the different types of tournaments and the detailed procedure of drawing fixtures for Knock Out, League Tournaments, and Combination tournaments  4. To teach them about the different types of community sports and their importance in our society SKILL DEVELOPMENT CRITICAL THINKING PROBLEM SOLVING	<b>Inter Class Competition for class XII</b>  <b>Assignment of the topic</b>
APRIL	Children & Women in Sports 1. Exercise guidelines of WHO for different age groups. Common Postural Deformities - Knock Knee; Bow Legs; Flat Foot; Round Shoulders;	 To make students understand the exercise guidelines of WHO for different age groups  To make students aware of the common postural deformities  To make students aware of women's sports participation in India and about the special	<b>Quiz based on the topic</b>  <b>Assignment on topic</b>

	<p>Lordosis, Kyphosis, and Scoliosis and their corrective measures</p> <ul style="list-style-type: none"> <li>Special consideration (Menarche &amp; Menstrual Dysfunction)</li> <li>Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)</li> </ul>	<p>conditions of women.</p> <ul style="list-style-type: none"> <li>To make students understand menarche and menstrual dysfunction among women athletics</li> <li>To make them understand about female athlete triad.</li> </ul>	
MAY	<p>Yoga as Preventive measure for Lifestyle Disease</p> <ol style="list-style-type: none"> <li>Obesity: Procedure, Benefits &amp; Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha– Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhanpranayama.</li> <li>Diabetes: Procedure, Benefits &amp; Contraindications for Katichakrasana, Pavanmuktasana, Bhujang asana, Shalabhasana, Dhanurasana, Suptavajarasana, Paschimottanasana-a, Ardha-Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.</li> <li>Asthma: Procedure, Benefits &amp; Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasan-a, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana Matsyaasana, Anuloma Viloma.</li> <li>Hypertension: Procedure, Benefits &amp; Contraindications for Tadasana, Katichakransan, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasan-a, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadishodhanapranayam, Sitlipranayam.</li> <li>Back Pain and Arthritis: Procedure, Benefits &amp; Contraindications of Tadasan, Urdhawahastootansana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Sarala Maysyendrsana, Bhujandgasana, Gomukhasana, Bhadrasana, Makarasana, NadiShodhana pranayama.</li> </ol>	<ol style="list-style-type: none"> <li>Students will be able to gain complete knowledge about Asanas.</li> <li>After gaining knowledge, they will be able to control obesity</li> <li>With practice of Asanas, students will be able to keep themselves free from diseases i.e. Back-pain, Diabetes, Asthma etc.</li> </ol> <p>PHYSICAL FITNESS &amp; WELLNESS ANALYTICAL ABILITY COMMUNICATION SKILL</p>	<p>Quiz on the Topic Assignment on the topic</p>

JULY	<p>Physical Education and Sports for CWSN (Children with Special Needs - Divyang)</p> <ol style="list-style-type: none"> <li>1. Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)</li> <li>2. Concept of Classification and Divisioning in Sports.</li> <li>3. Concept of Inclusion in sports, its need, and Implementation;</li> <li>4. Advantages of Physical Activities for children with special needs.</li> <li>5. Strategies to make Physical Activities assessable for children with special needs</li> </ol>	<ol style="list-style-type: none"> <li>1. Students will gain knowledge about the types of disabilities.</li> <li>2. They will come to know about various exercises for children with special need.</li> <li>3. They will gain knowledge, how to make strategies for children with special need.</li> </ol> <p>COGNITIVE SKILLS WELLNESS BEHAVIOURAL SKILL</p>	<p>Chart of Etiquettes associated with CWSN Assignment on topic</p>
JULY	<p><b>Unit V Sports &amp; Nutrition</b></p> <p> Sports &amp; Nutrition</p> <ol style="list-style-type: none"> <li>1. Concept of balanced diet and nutrition</li> <li>2. Macro and Micro Nutrients: Food sources &amp; functions</li> <li>3. Nutritive &amp; Non-Nutritive Components of Diet</li> <li>4. Eating for Weight control– A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths</li> <li>5. Importance of Diet in Sports-Pre, During and Post competition Requirements</li> </ol>	<ol style="list-style-type: none"> <li>1. Students will be able to keep themselves fit after knowing the value of a balanced diet and pitfalls of dieting etc.</li> <li>2. Students will be able to prepare diet charts for pre, during &amp; post competition.</li> </ol> <p>COGNITIVE SKILLS ANALYTIC SKILLS</p>	<p>Poster/Chart on healthy diet Assignment on topic</p>
AUGUST	<p><b>Unit VI Test &amp; Measurement in Sports</b></p> <p> <b>Fitness Test – SAI Khelo India Fitness Test in school:</b></p>	<ol style="list-style-type: none"> <li>1. Students will be able to use the various test and methods to measure the abilities of a person.</li> </ol>	<p>Conduct of Senior Citizen Fitness Test Assignment on topic</p>

	<p>o Age group 5-8 yrs/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test</p> <p>o Age group 9-18 yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit &amp; Reach flexibility test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, Modified Push-Ups for girls).</p> <p>📊 Computing Basal Metabolic Rate (BMR)</p> <p>📊 Rikli &amp; Jones - Senior Citizen Fitness Test</p> <p>I. Chair Stand Test for lower body strength</p> <p>II. Arm Curl Test for upper body strength</p> <p>III. Chair Sit &amp; Reach Test for lower body flexibility</p> <p>IV. Back Scratch Test for upper body flexibility</p> <p>V. Eight Foot Up &amp; Go Test for agility</p> <p>VI. Six Minute Walk Test for Aerobic Endurance</p>	<p>2. They will be able to understand the various tests to rectify the health problems relating to different body parts.</p> <p>PHYSICAL FITNESS &amp; WELLNESS ANALYTICAL ABILITY</p>	
AUGUST	<p><b>Unit VII Physiology &amp; Injuries in Sports</b></p> <p>📊 1. Physiological factors determining components of physical fitness</p> <p>2. Effect of exercise on the Muscular System</p> <p>3. Effect of exercise on the Cardio-Respiratory System</p> <p>4. Physiological changes due to aging</p>		<p>Make Chart on Effects of Exercises on Different Human body Organs</p> <p>Assignment on topic</p>

	<p>5. Sports injuries: Classification (Soft Tissue Injuries -Abrasion, Contusion, Laceration, Incision, Sprain &amp; Strain; Bone &amp; Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique &amp; Impacted)</p>		
Sept	<p><b>Half Yearly (Revision)</b></p> <p><b>Revision of chapters 1,2,3,5,6 &amp;7</b></p>	<p><b>Half Yearly (Revision)</b></p> <p><b>Revision of chapters 1,2,3,5,6 &amp;7</b></p>	
Oct	<p><b>Unit VIII Biomechanics &amp; Sports</b></p> <p>📖 1 Newton's Law of Motion &amp; its application in sports</p> <p><b>2. Types of Levers and their application in Sports.</b></p> <p><b>3. Equilibrium – Dynamic &amp; Static and Centre of Gravity and its application in sports</b></p> <p><b>4. Friction &amp; Sports</b></p> <p><b>5. Projectile in Sports</b></p>	<p>1. They will be able to differentiate the movement while flexion &amp; extension.</p> <p>2. After gaining proper knowledge of Newton's Law of Motion, they will be able to enhance their performance in sports.</p> <p>3. Students will be able to make better use of muscles while running, jumping &amp; throwing</p>	<p>Conduct of games applying Laws of Motion</p> <p>Assignment on topic</p>
Oct	<p><b>Unit IX Psychology &amp; Sports</b></p> <p><b>Psychology and Sports</b></p> <p><b>1. Personality; its definition &amp; types (Jung Classification &amp; Big Five Theory)</b></p> <p><b>2. Motivation, its type &amp; techniques.</b></p> <p><b>3. Exercise Adherence: Reasons, Benefits &amp;</b></p>	<p>1. Students will be able to cope up with the stress &amp; anxiety.</p> <p>2. After they understand the coping strategies, they will be able to handle the stressful situation.</p> <p>3. With the knowledge of motivation techniques, they will be able to lead a healthy &amp; successful life.</p>	<p>Chart of different Body Types</p> <p>Assignment on topic</p>

	<b>Strategies for Enhancing It</b> <b>4. Meaning, Concept &amp; Types of Aggressions in Sports</b> <b>5. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, SelfTalk, Goal Setting</b>	PHYSICAL FITNESS & WELLNESS	
NOVEMBER	<b>Unit X Training in Sports</b>  Concept of Talent Identification and Talent Development in Sports  Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle.  Types & Method to Develop – Strength, Endurance and Speed  Types & Method to Develop – Flexibility and Coordinative Ability. <b>Circuit Training -Introduction &amp; its importance</b>	1. After getting complete knowledge regarding fixtures etc. students can independently organize interclass tournaments etc.  2. They will be able to conduct specific sports (Run for fun) marathons to collect funds for a noble cause.  COGNITIVE SKILLS ANALYTIC SKILLS	Conduct of different exercises in groups to develop Strength, Endurance, Flexibility & Coordinative Abilities Assignment on topic

**HANSRAJ MODEL SCHOOL  
PUNJABI BAGH, NEW DELHI  
ACADEMIC PLAN  
SESSION: 2025-2026  
SUBJECT: PHYSICS  
CLASS: XII**

MONTH	TOPIC / SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENTS



<b>April</b>	<b>Chapter -Electric Field and charges</b> Coulomb's Force, electric field, dipole, Gauss Law and its applications <b>Chapter- Electric Potential and capacitance</b> Electric potential, potential difference, capacitance of parallel plate capacitor with and without dielectric,)	Student will be able to * Understand concept of electrostatic force and field. *State the Coulomb's law of electrostatic force. *Apply the concept of static electricity in selection of clothes as per the weather conditions *By using the concept of electrostatics students can protect themselves from lightning. *Understand the concept potential. * Understand the electric dipole and electric field due to an electric dipole. SKILL DEVELOPMENT Critical Thinking Problem Solving	Activity * To demonstrate methods of charging (frictional electricity , conduction and induction)using electroscope.	<a href="https://docs.google.com/presentation/d/1nghI5EO-JWEkvzYsOICGk6wqrkJLwW/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">ASSIGNMENT 1 ELECTROSTATIC S.pptx</a> <a href="https://docs.google.com/presentation/d/1nghI5EO-JWEkvzYsOICGk6wqrkJLwW/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/presentation/d/1nghI5EO-JWEkvzYsOICGk6wqrkJLwW/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a>  <a href="https://drive.google.com/file/d/1Xwnaff4VrF9u_CeuvOj7oT371IxcnTi4/view?usp=sharing">https://drive.google.com/file/d/1Xwnaff4VrF9u_CeuvOj7oT371IxcnTi4/view?usp=sharing</a>  <a href="https://docs.google.com/document/d/14zZcGVORzeLhazFmVtVHrgCb2BkSrfOy/edit?usp=sharing&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/14zZcGVORzeLhazFmVtVHrgCb2BkSrfOy/edit?usp=sharing&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a>

<p><b>May</b></p>	<p><b>Chapter- Electric Potential and capacitance(ctd)</b> combination of capacitors, energy stored in capacitor(only formula)</p> <p><b>Chapter-Current Electricity</b> Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and nonlinear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.</p>	<p>Student will be able to</p> <ul style="list-style-type: none"> <li>*Understand the concept of capacitor and in what form is the energy stored in the capacitor.</li> </ul> <p>Student will be able to:</p> <ul style="list-style-type: none"> <li>*Understand the concept of electric current and potential difference .</li> <li>* Understand the difference between drift velocity and mobility of electrons in a conductor.</li> <li>*State the Ohm's law and understand the Ohmic conductor.</li> <li>Understand the concept of electric power, electrical resistivity</li> <li>*Know the difference between emf and potential difference.</li> <li>* State the Kirchhoff's voltage and current law.</li> <li>*Understand principle of wheatstone bridge</li> <li>*Apply the concept for electrical power and energy to calculate the electricity bill of their home, factory or office</li> </ul>	<p>Activity</p> <ul style="list-style-type: none"> <li>*Using regulators of a fan ,the construction and working of capacitors will be discussed.</li> </ul> <p>Activities :</p> <ol style="list-style-type: none"> <li>To demonstrate the emf of a cell purchased from market.</li> <li>To show the electrolyte used in different cells which are being used in the laboratory.</li> </ol> <p>Lab activities :</p> <ol style="list-style-type: none"> <li>Measurement of unknown resistance by wheatstone bridge.</li> </ol>	<p>Assignment</p> <p><a href="https://docs.google.com/document/d/14zZcGVORzeLhazFmVtVHrgCb2BkSrfOy/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rt=pof=true&amp;sd=true">https://docs.google.com/document/d/14zZcGVORzeLhazFmVtVHrgCb2BkSrfOy/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rt=pof=true&amp;sd=true</a></p> <p>Assignment</p> <p><a href="https://drive.google.com/file/d/1aFtDRVbmUni6KOXI7yN18MhoMBjvpukJ/view?usp=drivesdk">https://drive.google.com/file/d/1aFtDRVbmUni6KOXI7yN18MhoMBjvpukJ/view?usp=drivesdk</a></p>
-------------------	---	---	--	---

	<b>Chapter– Nuclei</b> Composition and size of nucleus, nuclear force, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.	<b>SKILL DEVELOPMENT</b>  problem solving critical thinking  The students will be able to understand binding energy curve and hence interpret the reasons for nuclear fusion and fission	<b>Activity</b>  *To plot binding energy curve and interpret it	<b>Assignment</b> <a href="https://docs.google.com/document/d/1Ysa5NeTdkZVOKyfZ5oJJc6fFRzY2NHnV/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rt=pof=true&amp;sd=true">https://docs.google.com/document/d/1Ysa5NeTdkZVOKyfZ5oJJc6fFRzY2NHnV/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rt=pof=true&amp;sd=true</a>

July	<p><b>Chapter-Magnetic effects of current</b>  Biot - Savart law and its application to the current carrying circular loop.  Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields.  Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter.</p> <p><b>Chapter- Magnetism and Matter</b>  Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro -magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic</p>	<p>* Understand the concept of magnetic field and Oersted experiment .  * State the Biot savart's law and Ampere's law and apply the Ampere's law to calculate the magnetic field due to infinitely long straight wire,  *Understand the force on a moving charge in uniform magnetic and electric fields.  * Understand force between two parallel current-carrying conductors-definition of ampere.  Understand the torque experienced by current loop in uniform magnetic field</p> <p>SKILL DEVELOPMENT  Communication skill  Problem solving skills</p>	<p>Activites :</p> <p>*.To demonstrate the presence of magnetic field due to current carrying conductor.  *To demonstrate the force experience by current carrying conductor placed in uniform magnetic field  *To demonstrate the magnetic lines of force due to a bar magnet  *To demonstrate the solenoid and its magnetic poles</p>	<p>Assignment  <a href="https://drive.google.com/file/d/1h0VQUfCO9FtERa9o6C1CR7BNUCgfyR/view?usp=drivesdk">https://drive.google.com/file/d/1h0VQUfCO9FtERa9o6C1CR7BNUCgfyR/view?usp=drivesdk</a></p>
------	---	--	---	--

	properties.			
August	<p><b>Chapter:- Electromagnetic Induction</b> Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.</p> <p><b>Chapter: Alternating Current</b> Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer.</p> <p><b>Chapter Electronic Devices</b> Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.</p> <p><b>Chapter- Electromagnetic Waves</b> Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only).</p>	<p>The students will be able to *assess and analyze various situations where magnetic flux is varied and justify their answer. *recognize applications of these concepts in everyday life. They will correlate physics concepts to industrial and technological application.</p> <p>The students will be able to *Understand the energy band gaps in conductor, semiconductor and insulator *Understand the n type and p type semiconductor *Understand the working of diode in forward and reverse biasing Student will be able to *Understand the concept of displacement</p>	<p>Activity To demonstrate the construction and working of a generator and transformer.</p> <p>Activities To study the characteristics of p-n junction diode.</p>	<p>Assignment <a href="https://docs.google.com/document/d/1AeOcbOPeYjxxW_tWAwBMU8Rq2AVbDO-u/edit?usp=drivesdk&amp;oid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1AeOcbOPeYjxxW_tWAwBMU8Rq2AVbDO-u/edit?usp=drivesdk&amp;oid=117414855943371959813&amp;rtpof=true&amp;sd=true</a></p> <p>Assignment <a href="https://docs.google.com/document/d/1YnpgVRvEuqfJb_xdKMRW3bb416mcjaFu/edit?usp=drivesdk&amp;oid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1YnpgVRvEuqfJb_xdKMRW3bb416mcjaFu/edit?usp=drivesdk&amp;oid=117414855943371959813&amp;rtpof=true&amp;sd=true</a></p> <p>Assignment <a href="https://docs.google.com/document/d/1YmMAACc8zdTJ2EQiPuuenSW-EPeBwkzg/edit?usp=drivesdk&amp;oid=11741485593371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1YmMAACc8zdTJ2EQiPuuenSW-EPeBwkzg/edit?usp=drivesdk&amp;oid=11741485593371959813&amp;rtpof=true&amp;sd=true</a></p>

		current *understand the detection and applications of various parts of em spectrum		
September	<b>Chapter– Wave Optics</b> Wave optics: Wavefront and Huygens principle, Proof of laws of reflection and refraction using Huygens principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).  Half yearly Exams	The students will be able to *understand Huygens principle * apply Huygens principle to reflection and refraction of light  SKILL DEVELOPMENT  problem solving critical thinking	Activities  *To demonstrate interference and diffraction using lasers	Assignment <a href="https://docs.google.com/document/d/1YBYDYv3fX3uQGYikbkZ_oLoSMbqOo9Pg/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1YBYDYv3fX3uQGYikbkZ_oLoSMbqOo9Pg/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a>
October	<b>Chapter- Ray Optics and Optical Instruments</b> Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of	The students will be able to  *Understand the concept of reflection of light, spherical mirrors, mirror formula. * Understand the	Activities  *To demonstrate total internal reflection  *To study the image formation for different positions of the object	Assignment <a href="https://docs.google.com/document/d/1YBeWCL7CauU2N4XmBDLFSU-ZEeTdmNA6/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1YBeWCL7CauU2N4XmBDLFSU-ZEeTdmNA6/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a>

	<p>a lens, combination of thin lenses in contact, refraction of light through a prism.</p>	<p>Refraction of light, total internal reflection.          *Apply The concept of TIR in cables used in computers and transmission of Data.          *apply the concept of focal length to calculate the focal length of combination of lenses.</p>	<p>treating candle flame as object</p>	<p>Assignment  <a href="https://docs.google.com/document/d/1YBYDYv3fX3uQGYikbkZ_oLoSMbqOo9Pg/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1YBYDYv3fX3uQGYikbkZ_oLoSMbqOo9Pg/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a></p>
--	--	---	--	--

November	<p><b>Chapter--: Dual Nature of Radiation and Matter</b> Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation.</p> <p><b>Chapter:-: Atoms</b> Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only).</p>	<p>The students will be able to Apply the concept of dual nature in day to day life</p> <p>SKILL DEVELOPMENT</p> <p>problem solving critical thinking</p> <p>The students will be able to *Bohr model of hydrogen atom *find radius of orbit, energy of electron in any orbit</p>	<p>Activity Graphical study of photoelectric effect</p> <p>PowerPoint presentation showing the Bohr model for hydrogen atom.</p>	<p>Assignment</p> <p><a href="https://docs.google.com/document/d/1Ysa5NeTdKZVOKyfZ5oJJc6fFRzY2NHnV/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1Ysa5NeTdKZVOKyfZ5oJJc6fFRzY2NHnV/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a></p> <p>Assignment</p> <p><a href="https://docs.google.com/document/d/1Ysa5NeTdKZVOKyfZ5oJJc6fFRzY2NHnV/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1Ysa5NeTdKZVOKyfZ5oJJc6fFRzY2NHnV/edit?usp=drivesdk&amp;ouid=117414855943371959813&amp;rtpof=true&amp;sd=true</a></p>
----------	---	---	--	---



**CLASS XII**  
**POLITICAL SCIENCE (028)**  
**ACADEMIC PLAN 2025-26**

Month	Topic/ Sub-Topic	Learning Objectives	Activities	Assignment
April	<p>Book 1 Contemporary World Politics</p> <p><b>CH- End of Bipolarity</b></p> <p>Topics to be focused:</p> <p>a) The Soviet System</p> <p>b) Gorbachev and the disintegration</p> <p>c) Causes and Consequences of disintegration of Soviet Union</p> <p>d) Shock Therapy and its Consequences</p> <p>e) New entities in world politics</p> <p>Russia</p> <p>Balkan States</p> <p>Central Asian States</p> <p>f) India's relations with Russia</p> <p>and other post-communist countries</p> <p><b>CH- CONTEMPORARY CENTRES OF POWER</b></p> <p>Topics to be focused:</p> <p>a) European Union</p> <p>b) Association of</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Identify the basic features of the Soviet System.</li> <li>Discuss the background and outcome of disintegration of the Soviet Union.</li> <li>Examine the consequences of unipolar world</li> <li>Assess the features of Shock Therapy</li> <li>Probe into the recent happenings in the Post-Communist Countries.</li> <li>Trace the developments between India &amp; Russia</li> </ul> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Compare and contrast the importance of European Union and ASEAN.</li> <li>Evaluate the extent of rise of Chinese economy and its impact on world politics.</li> <li>Summarize India's relations with China.</li> </ul>	<ul style="list-style-type: none"> <li>Group Discussion: Causes and consequences of disintegration of USSR</li> <li>Documentaries- Past &amp; present situations in USSR/Post Soviet Republics</li> </ul> <ul style="list-style-type: none"> <li>Discussion: Importance on regional organisations</li> <li>Comparative study: Economic growth of China, Japan and</li> </ul>	<p>Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p>

	Southeast Asian Nations c) Rise of China as an economic power d) Japan and South Korea as emerging powers		South Korea. • Use of timeline • Map activity • Interpretation of cartoons/ Pictures	
May	<b>CH- CONTEMPORARY SOUTH ASIA</b> Topics to be focused: a) Military and Democracy in Pakistan and Bangladesh b) Monarchy and Democracy in Nepal c) Ethnic Conflict and Democracy in Sri Lanka d) India-Pakistan Conflicts e) India and its Neighbours f) Peace and Cooperation  <b>CH- INTERNATIONAL ORGANIZATIONS</b> Topics to be focused: a) Meaning and importance of International Organisations b) Evolution of the UN c) Structure and function of International Organisations	Students will be able to: • Identify & locate the seven countries of the South Asian region. • Appreciate the mixed record of democracy in the South Asian region. • Examine the role of Political leaders • Reflect upon the causes of various conflicts and movements in this region. • Justify the creation of SAARC • Understand the involvement of US and China in South Asia.  Students will be able to: • Define International Organization • Appreciate the role of United Nations and its agencies • Reflect on the events taking place in the post-cold war era • Understand the need for reforms in the United Nations	• Map activity • Comparative Analysis: Political systems of South Asian countries Use of Historical data • Interpretation of cartoons/Pictures /Newspaper clippings • Discussion: Current economic crisis in Sri Lanka and Pakistan • Quiz  • Discussion and debate: • Necessary reforms of the UN • Interpretation of cartoons /Newspaper clippings	Competency based questions  Multiple Choice Questions  Cartoon and Passage based questions  Short and Long Questions  Previous Year Board Exam questions  Competency based questions  Multiple Choice Questions  Cartoon and Passage based

	<p>d) Principal Organs of UN e) Reform of the UN after Cold War f) Reform of Structures, Processes and Jurisdiction of the UN g) India and the UN Reforms h) Key Agencies: IMF, World Bank, WTO, ILO, IAEA. i) NGO: Amnesty International, Human Rights Watch. j) Implications and Future of International Organizations</p> <p><b>CH - SECURITY IN CONTEMPORARY WORLD</b> Topics to be focused: a) Meaning and Type of Security. b) Traditional concept of security c) Non-tradition notions of Security. d) New Sources of Threats e) Cooperative Security f) India's Security strategy</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Recognize the causes of security threats</li> <li>• Enhance analytical skills to provide solutions to security concerns.</li> <li>• Develop critical thinking about the role of various stakeholders in ensuring security today.</li> <li>• Need for Cooperative security</li> <li>• Components of India's security strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Model United Nations</li> </ul> <ul style="list-style-type: none"> <li>• Discussions and debates: New sources of threat</li> <li>• Comparative analysis: Security concerns of different countries</li> <li>• Interpretation of cartoons/Pictures</li> <li>• Collaborative concept mapping: India's initiatives and policies towards security.</li> </ul>	<p>questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p> <p>Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p>
--	---	---	--	---



	<p><b>CH- CHALLENGES TO NATION BUILDING</b></p> <p>Topics to be focused:</p> <p>a) Challenges for the new Nation. Three Challenges.</p> <p>b) Partition: Displacement and Rehabilitation. Consequences of Partition.</p> <p>c) Integration of Princely States. The problem Government's approach Hyderabad Manipur</p> <p>d) Reorganisation of States.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Analyse the challenges which Independent India faced.</li> <li>Describe the factors that led to the partition of India.</li> <li>Explain the circumstances under which different princely states signed the Instrument of Accession.</li> <li>Assess how language became the basis of reorganisation of the states.</li> <li>Evaluate the role played by leaders in Nation Building.</li> </ul>	<ul style="list-style-type: none"> <li>Documentaries</li> <li>Discussion: Causes and consequences of Partition</li> <li>Experiences- Meeting People who lived through this period.</li> <li>Cartoon Interpretation</li> <li>Map Activity</li> </ul>	<p>Previous Year Board Exam questions Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p>
August	<p><b>CH- ERA OF ONE PARTY DOMINANCE</b></p> <p>Topics to be focussed:</p> <p>a) Challenge of building democracy.</p> <p>b) Congress dominance in the first three general elections. Nature of Congress dominance Congress as social and ideological coalition. Tolerance and</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Appreciate the sustenance of democratic politics in the country.</li> <li>Evaluate the electoral politics post-Independence</li> <li>Assess the dominance of the Indian National Congress from 1952 to 1967.</li> <li>Evaluate the role of Opposition parties</li> </ul>	<ul style="list-style-type: none"> <li>Group Discussion: Recent changes in the electoral process</li> <li>Comparative analysis: Ideology of different political parties</li> <li>Maps/Cartoons</li> <li>Question strategy</li> <li>Quiz</li> </ul>	<p>Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year</p>

	<p>management of Factions c) Emergence of opposition parties.</p> <p><b>CH- POLITICS OF PLANNED DEVELOPMENT</b> Topics to be focussed: a) Political contestation. Ideas of Development. Planning Planning Commission b) The Early Initiatives The First Five Year Plan. Rapid Industrialisation.</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Identify the varied option considered by the government to balance growth and socio-economic justice.</li> <li>Know the difference between Left and Right Ideology</li> <li>Understand the need for the formation of the Planning Commission.</li> <li>Appreciate the need for strategic long-term development programme and policies</li> </ul>	<p>Debate and Discussion: First three 5-year plans. Comparative analysis: The Left and Right ideology.</p>	<p>Board Exam questions</p> <p>Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p>
	<p><b>CH- INDIA'S EXTERNAL RELATIONS</b> Topics to be focussed: a) International Context b) The Policy of Non-Alignment. Nehru's role Distance from two camps. Afro Asian Unity c) Peace and conflict with China The Chinese</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>Recognise the significance of NAM</li> <li>Interpret, compare and contrast multi-lateral aspects of Indo-China relationship</li> <li>Demonstrate knowledge on Indo-Pak wars</li> <li>Appreciate the steps taken by Indian government to develop military capacity</li> </ul>	<ul style="list-style-type: none"> <li>Presentation: NAM founders, objectives, principles and its relevance in contemporary world politics</li> <li>Group discussion: India's relations with China and Pakistan (past,</li> </ul>	<p>Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p>

	Invasion 1962 War and Peace with Pakistan Bangladesh War 1971 d) India's Nuclear Policy.	<ul style="list-style-type: none"> <li>• Reflect and introspect on the choices that the country must consider for</li> <li>• the cause of development and peace building</li> </ul>	present and future) <ul style="list-style-type: none"> <li>• Debate: India's stand on shifting alliances</li> </ul>	Previous Year Board Exam questions
September	<b>CH- CHALLENGES TO AND RESTORATION OF THE CONGRESS SYSTEM</b> Topics to be focused: a) Challenge of Political Succession From Nehru to Shastri From Shastri to Indira Gandhi b) Fourth General Election 1967 Context of the Election. Non Congressism Electoral Verdict Coalitions Defections c) Split in the Congress Indira vs the Syndicate Presidential Election 1969 d) The 1971 Election and Restoration of Congress The outcome and after Restoration?	Students will be able to: <ul style="list-style-type: none"> <li>• Understand the challenges of political succession after Nehru.</li> <li>• Evaluate the opposition unity and the Congress split as a challenge to Congress dominance.</li> <li>• Compare and contrast the new Congress and the old Congress.</li> <li>• Summarize the initiatives taken by Indira Gandhi to overcome the challenges faced by her</li> <li>• Analyze the process of restoration of the Congress system</li> </ul>	<ul style="list-style-type: none"> <li>• Use of timeline</li> <li>• Comparative analysis:</li> </ul> Political Succession <ul style="list-style-type: none"> <li>• Group discussion: Changing electoral performance of the congress</li> </ul> <ul style="list-style-type: none"> <li>• Interpretation of cartoons</li> <li>• Map Activity</li> </ul>	Competency based questions  Multiple Choice Questions  Cartoon and Passage based questions  Short and Long Questions  Previous Year Board Exam questions
October	<b>CH- CRISIS OF DEMOCRATIC ORDER</b> Topics to be focused: a) Background to Emergency.	Students will be able to: <ul style="list-style-type: none"> <li>• Understand the causes and consequences of Emergency</li> <li>• Examine the lessons of</li> </ul>	<ul style="list-style-type: none"> <li>• Group discussion: Based on Newspaper articles and other media information with respect to emergency</li> </ul>	Competency based questions  Multiple Choice Questions

	<p>Economic Context. Gujarat and Bihar Movements Conflict with Judiciary b) Declaration of Emergency Crisis and response Consequences c) Lessons of the Emergency. d) Politics after Emergency. Lok Sabha Elections 1977 Janata Government Legacy</p> <p><b>CH- REGIONAL ASPIRATIONS</b> Topics to be focused: a) Region and the Nation Indian Approach Areas of Tension Jammu and Kashmir Roots of the Problem External and Internal disputes Politics since 1948 Insurgency and After 2022 and Beyond b) Punjab Political Context Cycle of Violence Road to Peace c) The Northeast Demand for autonomy Secessionist Movements Movements against</p>	<p>Emergency</p> <ul style="list-style-type: none"> <li>• Evaluate the rule of Janata Government</li> </ul> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Discuss the implications of regional demands.</li> <li>• Analyse the importance of integrity in India.</li> <li>• Appreciate the initiatives taken by the government in dealing with regional aspirations</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz</li> <li>• Cartoon Interpretation</li> <li>• Map Activity</li> </ul> <ul style="list-style-type: none"> <li>• Group discussion: Demands of Autonomy in different parts of the country.</li> <li>• Comparative analysis: Government's response to regional aspirations</li> <li>• Quiz.</li> </ul>	<p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p> <p>Competency based questions</p> <p>Multiple Choice Questions</p> <p>Cartoon and Passage based questions</p> <p>Short and Long Questions</p> <p>Previous Year Board Exam questions</p>
--	---	--	--	---



	outsiders Assam and National  <b>CH- RECENT TRENDS AND DEVELOPMENT IN INDIAN POLITICS</b> Topics to be focused a) Context of 1990s b) Era of Coalition Alliance Politics c) Political rise if the Backward Classes Mandal Implemented Political Fallouts d) Communalism, Secularism and Democracy. Ayodhya Dispute Demolition and after e) Emergence of New Consensus <b>f) Lok Sabha Elections 2004</b> <b>g) Growing Consensus</b>	Students will be able to: <ul style="list-style-type: none"> <li>• Understand momentous changes taking place in the nation since 1989</li> <li>• Trace the rise and growth of BJP.</li> <li>• Identify the areas of growing consensus</li> </ul>	<ul style="list-style-type: none"> <li>• Comparative analysis: Different developments taking place in present scenario with that of twentieth century.</li> <li>• Timeline</li> <li>• Interpretation of Cartoons/Caricatures</li> <li>• Quiz</li> </ul>	Competency based questions  Multiple Choice Questions  Cartoon and Passage based questions  Short and Long Questions  Previous Year Board Exam questions
November				
December				

HANSRAJ MODEL SCHOOL  
PUNJABI BAGH, NEW DELHI  
ACADEMIC PLAN  
SESSION: 2025- 2026  
SUBJECT: TOURISM  
CLASS: XII

MONTH	TOPIC/ SUBTOPICS	LEARNING INTENTIONS	ACTIVITIES	ASSIGNMENT
April	<b>INTRODUCTION TO TOURISM</b> <ul style="list-style-type: none"> <li>• Evaluation of Travel business</li> <li>• Type and organizational structure of TA &amp; TO</li> <li>• Difference between travel agencies and tour operators</li> <li>• Market trends &amp; travel agency business scenario</li> <li>• Business integration</li> </ul> <b>COMMUNICATION SKILLS -IV</b>	<ul style="list-style-type: none"> <li>• Understanding the development of travel trade in India</li> <li>• Learning about the types of travel agencies and tour operators</li> </ul>	Activity (includes art integration) : <ul style="list-style-type: none"> <li>• To collect and study pamphlets of different Travel agencies/ Tour operators</li> </ul>	Assignment-1 Review questions of the chapter <b>INTRODUCTION TO TOURISM</b>
May	<b>OPERATIONS OF TRAVEL AGENCY</b> <ul style="list-style-type: none"> <li>• Agent</li> <li>• Origins of travel agency</li> <li>• Operations of travel agency</li> <li>• Organization of travel agency</li> <li>• Commissions</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding the Principles, characteristics and range of tasks undertaken by a travel agent</li> </ul>	Activity : <ul style="list-style-type: none"> <li>• Discussion on topics related to projects</li> </ul>	Assignment-2 Review questions of the chapter <b>OPERATIONS OF TRAVEL AGENCY</b>



	<b>PACKAGE TOUR COSTING</b> <ul style="list-style-type: none"> <li>● Meaning of type of cost</li> <li>● Concepts of tour costing</li> <li>● Components of Tour cost</li> <li>● Pricing package tour</li> <li>● Pricing strategies</li> <li>● Tour programming and its importance</li> </ul> <b>ENTREPRENEURIAL SKILLS -IV</b>	<ul style="list-style-type: none"> <li>● Learning about about the different types of cost used in a package Tour</li> <li>● Understanding how to price for package Tour</li> </ul>	tourist places of different states	Assignment-6 Review questions of the chapter  <b>PACKAGE TOUR COSTING</b>
September	<b>REVISION</b>			
October	<b>GOVERNMENT AND PROFESSIONAL BODIES</b> <ul style="list-style-type: none"> <li>● Integration between government and professional bodies</li> <li>● Rules for setting up travel agency and tour operators</li> <li>● Department of tourism (DOT) Different schemes and policies</li> <li>● Professional bodies and their activities</li> </ul> <b>GREEN SKILLS -IV</b>	<ul style="list-style-type: none"> <li>● Understanding the different Government scheme and policy for establishing Travel Business</li> <li>● Learning about the various national and international professional bodies</li> </ul>	Activity : <ul style="list-style-type: none"> <li>● Make a collage Collect different types of visa forms, passport application form and other documents related to travel</li> </ul>	Assignment-7 Review questions of the chapter <b>GOVERNMENT AND PROFESSIONAL BODIES</b>
November	<b>GLOBAL DISTRIBUTION SYSTEM</b> <ul style="list-style-type: none"> <li>● Global distribution system</li> <li>● The evolution of global distribution system</li> </ul>	<ul style="list-style-type: none"> <li>● Defining and understanding GDS</li> </ul>		Assignment-8 Review questions of the chapter <b>GLOBAL DISTRIBUTION SYSTEM</b>

**HANSRAJ MODEL SCHOOL, PUNJABI BAGH, NEW DELHI.****SUBJECT- WEB APPLICATION****ACADEMIC PLAN (2025-26)****CLASS XII**

<b>Duration</b>	<b>Theory</b>
1 <sup>st</sup> April-15 <sup>th</sup> April	Revision of JavaScript Class XI
16 <sup>th</sup> April- 30 <sup>th</sup> April	ICT Skills-IV Web Scripting – Java Script
1 <sup>st</sup> May- 21 <sup>st</sup> May	Web Scripting – Java Script
1 <sup>st</sup> July- 15 <sup>th</sup> July	Graphic Designing using Canva and Adobe Express Web Scripting – Java Script
16 <sup>th</sup> July-31 <sup>st</sup> July	Graphic Designing using Canva and Adobe Express
1 <sup>st</sup> Aug- 30 <sup>th</sup> Aug	Graphic Designing using Canva and Adobe Express Emerging Trends
1 <sup>st</sup> Sept-30 <sup>th</sup> Sept	HALF YEARLY EXAMS
1 <sup>st</sup> Oct- 15 <sup>th</sup> Oct	Cyber Safety and Security
16 <sup>th</sup> Oct-31 <sup>st</sup> Oct	Entrepreneurial Skills-IV Green Skills-IV
1 <sup>st</sup> Nov-30 <sup>th</sup> Nov	REVISION Preboard 1 Examination
1 <sup>st</sup> Dec – 24 December	REVISION Preboard 2 Examination