

CARMEL CONVENT SR SEC SCHOOL, RATANPUR

YEAR PLANNER 2026-27

CLASS - X

SUBJECT- ENGLISH

MONTH	NAME OF THE CHAPTER AND SUB TOPICS	TIME ALLOTTED (HRS)	LEARNING OUTCOMES	SUGGESTED ACTIVITIES /ASSESSMENT/ PRACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	Book 1- A Letter to God	6	To develop faith in God	Dictation Test, Competency based class test, Character Sketch	Make a comparative study of Madhya Pradesh and Bihar in terms of their tradition, culture, food and festivals Or Make a photo album of any five poets and authors from Madhya Pradesh and Bihar	Faith in God
	Poem 1- Dust of snow	1	To read, comprehend and appreciate the poem			Art of appreciation
	Poem 2- Fire and Ice	1	To make the students learn how the world will end			Preparedness to face any eventuality
	Book 2- A Triumph of Surgery	5	To respond to complex texts independently by making them write character sketch of Mrs. Pumphrey and her pets			Avoidance of overpampering
	Grammar- Tenses	5	To make the students understand the complexities of tenses by simplifying it			To be clear of basics of grammar
JUNE	Book 1- Nelson Mandela	6	To make the students prepare and learn a powerful speech as that of Nelson Mandela	Writing summary of the lessons, Class test, Dictation test, Character Sketch		Oratorical skills
	Book 2 - Two Stories about Flying	6	To develop strong determination to reach one's goal.			Necessity is the mother of invention
	Poem 3 -	1	To make them understand that all			

	A Tiger in the Zoo		animals will be happy only in their natural habitat.			Conducive circumstances to be happy
	Book 2- The Thief's Story	4	To win the trust of others by hard work			Building Trust
	Grammar- Reported Speech	6	To make correct usage of tenses in the Reported Speech			Proficiency in Speech
	Writing Skills - Formal Letter	3	To communicate thoughts, ideas and opinions verbally and non-verbally			
JULY	Book 1- From the Diary of Anne Frank	6	To understand the characters, their role and the elements of humour in the story.	PT -1 - A Letter to God - Dust of Snow - Fire and Ice - A Triumph of Surgery Grammar - Tenses		True companion
	Book 1- Glimpses of India	6	To appreciate the rich heritage of our nation by understanding the text in diverse context.			Appreciation of scenic beauty
	Poem 4- How to Tell Wild Animals	1	To develop their imaginative and analytical skills			Development of imaginative and analytical skills
	Book 2- The Midnight Visitor	4	To develop strong determination to reach one's goal.			Persistence approach
	Book 2- A Question of Trust	4	To develop imaginative and analytical skills by understanding that secret agents in fiction are projected like ideal men.			Imaginative and analytical skills
	Writing Skill Analytical Paragraph	2	To develop the analytical skills by			Logical approach

			comparing and contrasting the given cue			
AUGUST	Book 1 -Mijbil the Otter	5	To empathize with animals, To read literary texts for enjoyment/ pleasure	Dictation Test, Competency based class test, Character Sketch		Playful approach
	Poem 5 - The Ball Poem	2	To read literary texts for enjoyment/ pleasure			Appreciating the worth of even the smallest of small things
	Poem 6 - Amanda!	2	To enable the students to be specific in reflection' expression and individual opinion and deeper understanding of Amanda			Living in real life
	Book 2 - Footprints Without Feet	4	To make them know that science is a good servant but a bad master	Writing summary of the lesson		Inventions for constructive purpose
	Grammar Determiners	4	To enable them to understand the finer aspects of grammar	Revision for PT 2 examinations		Basics of grammar
SEPTEMBER	Term I (PT 2) Examinations			PT- 2 All topics covered till August		
	Book 1 - The Proposal (Play)	6	To help them identify the different types of conflict within the story, to use language appropriate to purposes and perspectives, to develop their imaginative and analytical skills			Mature behaviour
	Book 2 - The Making of a Scientist	6	To speak with coherence and cohesion while participating in interactive tasks			Making use of time and talent appropriately

	Book 1 – Madam Rides the Bus	6	To realise the experiences that travelling gives us	Competency based class test, summary of the poem, character sketch, Class test, Group Discussion		Self- respect and self-worth
	Book 1 – The Sermon at Benares	6	To sensitise the students to the fact that death is the ultimate truth in the world			Basic life lessons
OCTOBER	Poem 7- The Trees	2	To compare the natural forests to the artificial ones			Freedom, the source of real joy
	Poem 8- Fog	1	To understand the powerful nature and the worth of natural occurrences			Power of nature
	Book 2- The Necklace	6	To enable them to understand that satisfaction leads to contentment which is the key to happiness			Contentment in life
	Grammar- Subject – Verb Agreement	4	To learn the usage of how a verb agrees with the subject in number and person			Grammar usage
	Poem 9- The Tale of Custard the Dragon	2	To help the students not to draw a conclusion without proper judgement			Never judge a book by its cover
	Poem 10- For Anne Gregory	2	To write short answers, paragraphs using appropriate vocabulary and grammar on a given theme			Imaginative approach
	Book 2- Bholi	4	To sensitize the students to the importance of education and the need of emotional			Importance of education to develop self confidence

	Book 2- The Book that Saved the Earth Grammar- Modals	6 3	security and family support for children To understand that half knowledge is a dangerous thing To use the correct modals efficiently			True Knowledge is a strong weapon Proficiency in writing and speaking
NOVEMBER	PT-3/ Term 2(Final Examination)					
DECEMBER	REVISION + PRE-BOARD EXAMINATION S			FULL YEAR SYLLABUS		
JANUARY	PRE-BOARD EXAMINATION S			FULL YEAR SYLLABUS		
FEBRUARY	BOARD EXAMINATION S			FULL YEAR SYLLABUS		

NAME OF INCHARGE TEACHERS: Mr. Solomon Richards, Mrs. Jecy Abraham, Mrs. Sheeba Mathew, Mrs. Anju Prasad, Ms. Sadaf Masood

SIGNATURE OF SUBJECT CORDINATOR: Mr. Solomon Richards

SIGNATURE OF PRINCIPAL:

CLASS : X

SUBJECT: MATHEMATICS

MONT H	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOT TED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ASSES SMENT/PRACTICA LS	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
April	Ch1:REAL NUMBERS 1.Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples 2.Proofs of irrationality of $\sqrt{2}, \sqrt{3}, \sqrt{5}$ Ch2: POLYNOMIALS 1.Zeros of a polynomial 2. Relationship between zeros and coefficients of quadratic polynomials.	8 hrs 10hrs	Describes Fundamental Theorem of Arithmetic with examples Prove algebraically the Irrationality of numbers like $\sqrt{2}, \sqrt{3}, \sqrt{5}, 3+2\sqrt{5}$ etc Find the zeroes of polynomial graphically and algebraically and verifying the relation between zeroes and coefficients of quadratic polynomials.		Activity to understand nature and shape of quadratic polynomial through graph	Develops understanding of numbers, including the set of real numbers and its properties. Extends the understanding of powers (radical powers) and exponents. Applies Fundamental Theorem of Arithmetic to solve problems related to real life contexts Develops a relationship between algebraic and graphical methods of finding the zeroes of a polynomial.

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June	Ch7: COORDINATE GEOMETRY 1. Review: Concepts of coordinate geometry. Distance formula. Section formula (internal division).	12hrs	Solves problems using distance formula and section formula	Worksheet based on chap 1,2&7	Derives formulae to establish relations for geometrical shapes in the context of a coordinate plane, such as, finding the distance between two given points, to determine the coordinates of a point between any two given points
	Ch13:STATISTICS 1.Mean, median and mode of grouped data (bimodal situation to be avoided)	15hrs	Computes the mean, of a grouped frequency distribution using direct, assumed mean and step deviation method. Computes the median and mode of grouped frequency distribution by algebraic method		Calculates mean, median and mode for different sets of data related with real life contexts.
	Ch3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES 1. Pair of linear equations in two variables and graphical method of their solution, consistency/incons	10 hrs	Find the solution of pair of linear equations in two variables graphically and algebraically (substitution and elimination method	SEA1. Conditions for consistency of linear equation in two variables by graphical method.	Describes plotting a pair of linear equations and graphically finding the solution. Models and solves contextualised problems using equations (e.g., simultaneous linear equations in two variables).

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JULY	istency. 2.Algebraic conditions for number of solutions. 3. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems. Chap4:QUADRATIC EQUATIONS 1.Standard form of quadratic equation $ax^2+bx+c=0,(a\neq 0)$. 2. Solutions of quadratic eqs (only real roots) by factorization, and by using quadratic formula.	9hrs	Solves quadratic equations using factorization and quadratic formula Determines the nature of roots using discriminant		Model making using mathematical concept(including Bihar state.)	Demonstrates strategies of finding roots and determining the nature of roots of a quadratic equation.
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Relationship between discriminant and nature of roots. 3.Situational problems based on quadratic eqs related to day-to-day activities to be incorporated Ch5: ARITHMETIC PROGRESSIONS 1.Motivation for studying AP . 2. Derivation of the nth term and sum of the first n terms of AP and their application in solving daily life problems. Ch6: SIMILAR TRIANGLES Definitions, examples, counter eg.of similar	10hrs	Formulates and solves problems based on real life context			
	10hrs	Applies concepts of AP to find the nth term and sum of n terms. Application of AP in real life problems	SEA2.To verify the given sequence is an arithmetic progression by paper cutting and pasting		Develops strategies to apply the concept of A.P. to daily life situations

triangles. 1. (Prove) If a line is drawn parallel to one side of a Δ to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. 2. State (without proof) If a line divides two sides of a Δ in the same ratio, the line is parallel to the third side. 3. State (without proof) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and	Prove Basic Proportionality theorem and applying the theorem and its converse in solving questions Prove similarity of triangles using different similarity criteria	Works out ways to differentiate between congruent and similar figures. Establishes properties for similarity of two triangles logically using different geometric criteria established earlier such as, Basic Proportionality Theorem, etc.
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	the triangles are similar. 4. State (without proof) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. 5. State (without proof) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar			PT-1 EXAM SYLLABUS: Chap 1,2,7 and 13		
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August	Ch14: PROBABILITY 1. Classical definition of probability. 2. Simple problems on finding the probability of an event.	5hrs	Determines the probabilities in simple real-life problems			Applies concepts from probability to solve problems on the likelihood of everyday events
	Ch8:INTRODUCTION TO TRIGONOMETRY 1.Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined) 2. Motivate the ratios whichever are defined at 0° and 90° . Values of the trigonometric ratios of 30° , 45° and 60°. 3. Relationships between the ratios 4.Proof & applications of the	10 hrs	Evaluates trigonometric ratios Describes trigonometric ratios of standard angles and solving related expressions Proves trigonometric identities using $\sin^2 A + \cos^2 A = 1$ and other identities	SEA3.To find Trigonometric ratios for 30° , 45° & 60°		Understands the definitions of the basic trigonometric functions (including the introduction of the sine and cosine functions Uses Trigonometric identities to solve problems

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	identity $\sin^2 A + \cos^2 A = 1$. 5. Only simple identities to be given. Ch9: SOME APPLICATIONS OF TRIGONOMETRY (Heights & Distances) Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30°, 45°, and 60°.	8hrs	Find heights and distances in real life word problems using trigonometric ratios			Applies Trigonometric ratios in solving problems in daily life contexts like finding heights of different structures or distance from them.
September			REVISION FOR PT-2	PT-2 EXAM SYLLABUS: Chap 1 to 9, 13 & 14		
October	Ch 10: CIRCLES Tangent to a circle at point of contact.	9hrs	Derives proofs of theorems related to the tangents of circles			Prove the theorems based on the tangent to a circle. Applies the concept of tangents

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1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to a circle are equal Chap 11: AREAS RELATED TO CIRCLES 1.Area of sectors and segments of a circle. 2. Problems based on areas and perimeter /circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60°, 90° and 120° only.	12hrs	Visualises and evaluates areas of sector and segment of a circle		of circle to solve various problems Derives and uses formulae to calculate areas of plane figures
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	Chap 12: SURFACE AREAS AND VOLUMES Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones	12 hrs	Evaluates the surface areas and volumes of combinations of solids by visualisation			Visualises and uses mathematical thinking to discover formulae to calculate surface areas and volumes of solid objects (cubes, cuboids, spheres, hemispheres, right circular cylinders/cones, and their combinations).
November	Chap 12: SURFACE AREAS AND VOLUMES(contd)		REVISION FOR PT-3	PT-3 EXAM SYLLABUS: Chap 1 to 14		
December	PRE-BOARD EXAM		REVISION FOR PREBOARD	PRE-BOARD SYLLABUS: Chap 1 to 14		
January	PREBOARD EXAM					

NAME OF INCHARGE TEACHERS: Mrs Anamika,Mr Nikhilesh,Mrs Bindi,Mrs Gini,Mr Tikesh

SIGNATURE OF COORDINATOR:

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CARMEL CONVENT SR SEC SCHOOL RATANPUR, BHOPAL
YEAR PLANNER:2026-27

CLASS : 10th

SUBJECT: HINDI

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ ASSESSMENTS	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
अप्रैल 2026	गद्य - 7.नेताजी का चश्मा 8.बालगोबिन भगत पद्य-1.सूरदास के पद व्याकरण- रचना के आधार पर वाक्य भेद	18 घंटे	* छात्रों में देशभक्ति की भावना जागृत करना। * रुढ़ियों का त्याग करना। * ज्ञान मार्ग पर चलना एवं नैतिकता को अपनाना। * वाक्य भेद पहचानना।	* देशभक्ति प्रदर्शित करने के कौन कौन से तरीके हो सकते हैं? * सूरदास जी के पदों में प्रयुक्त अलंकारों एवं भाषा सौंदर्य के बारे में बताइए।	* रचना के आधार पर वाक्य भेद का माइंड मैप बनाइए।	* देशभक्ति की भावना का विकास। देश निर्माण में बच्चों का योगदान। * सामाजिक रुढ़ियों का विरोध, ग्रामीण जीवन से परिचय। * ब्रज भाषा का ज्ञान।वात्सल्य और श्रृंगार रस से परिचय। * रचना के आधार पर वाक्य भेद पहचानना।
जून 2026	गद्य- 9.लखनवी अंदाज़ कृतिका- 1. माता का अंचल व्याकरण- विज्ञापन लेखन संदेश लेखन	20 घंटे	* नवाबी शानो शौकत तथा दिखावे की प्रवृत्ति से दूर रहना। * वात्सल्य प्रेम। * रचनात्मक लेखन का अभ्यास होना।	* नवाबों सनक की तरह और कौनसी सनक हो सकती है ? चर्चा करें। * अपने बचपन को वर्णित कीजिए।	* कुछ नवाबी सनक के विषय में कक्षा परिचर्चा ।	* व्यवहारिक दृष्टिकोण विकसित करना । * बाल मनोभावों की अभिव्यक्ति, तत्कालीन समाज के परिवेश को पहचानना। * लेखन कौशल का विकास।

जुलाई 2026 PT1- 13/7/2026 नेताजी का चश्मा, सूरदास के पद *रचना के आधार पर वाक्य भेद	गद्य- 10. एक कहानी यह भी पद्य- 2. राम लक्ष्मण परशुराम संवाद व्याकरण- वाच्य, पद परिचय, अनुच्छेद लेखन, पत्र लेखन	28 घंटे	* पारिवारिक जीवन से जुड़ी अनुभूतियों की पहचान। * व्यंग्यात्मक शब्दों का प्रयोग न करना। * धैर्य और विनयशीलता को अपनाना। * तीनों वाच्यों की पहचान करना। * वाक्य में प्रयुक्त पदों का विस्तृत परिचय जानना।	* आप अपना आदर्श किसे मानते हैं और क्यों? * तुलसीदास जी की भाषा शैली की विशेषताएं बताइए।	* विभिन्न व्याकरण विषयों पर प्रवाह चित्र बनाएं।	* मन्नू भंडारी के जीवन से परिचय, लड़कियों की स्थिति से परिचय। * अवधी भाषा का ज्ञान, श्रीराम के मानवीयगुण, तुलसी की रामभक्ति । * वाच्य भेद, प्रयोग, परिवर्तन आदि से परिचय। भाषा में पद का महत्व, भेद शब्दों का व्याकरणिक परिचय आदि।
अगस्त 2026	गद्य- 11. नौबतखाने में इबादत पद्य- 3. आत्मकथ्य कृतिका- 2. साना साना हाथ जोड़ि व्याकरण अलंकार, स्ववृत्त लेखन, ईमेल लेखन	25 घंटे	* वाद्य यंत्र शहनाई का परिचय एवं संगीत के प्रति लगन व साधना। * अपनी निजता को सार्वजनिक न करना। * प्रकृति व पर्यटन के प्रति रुचि जागृत करना। * रचनात्मक लेखन का अभ्यास।	* भारतीय प्राचीन व आधुनिक वाद्य यंत्रों के नाम लिखिए। * किसी महापुरुष की आत्मकथा पढ़कर कक्षा में परिचर्चा।	* कुछ भारतीय वाद्य यंत्रों के त्रिआयामी नमूने बनाए।	* बिस्मिल्लाह खां के जीवन परिचय, उनका सादगीपूर्ण जीवन, धार्मिक कट्टरता का त्याग * जयशंकर प्रसाद की आत्मकथा, यथार्थ भाव, छायावादी युग की जानकारी। * काव्य में अलंकारों का महत्व, काव्य की सुंदरता, अलंकार का प्रयोग आदि।

सितंबर 2026 PT 2 01/09/2026 पाठ- 1,2,3,7,8,9 कृतिका - पाठ 1 पूर्ण व्याकरण	गद्य- 12. संस्कृति पद्य- 4 उत्साह, अट नहीं रही है व्याकरण अपठितबोध	17 घंटे	* सभ्यता और संस्कृति के बारे में विस्तृत जानकारी प्राप्त करना। * फागुन मास की सुंदरता व प्रकृति प्रेम एवं अलंकारों की जानकारी।	* भारतीय संस्कृति की कुछ मुख्य विशेषताएं बताइए। * आपको कौनसी ऋतु सबसे ज्यादा पसंद है और क्यों?	* वर्षा ऋतु का चित्र कॉपी में बनाइए।	* सभ्यता और संस्कृति का अंतर, कल्याणकारी दृष्टिकोण का विकास। * प्रकृति की सुंदरता से अवगत कराना, नवीन उत्साह जगाना, क्रांति परिवर्तन की ओर अग्रसर करना।
अक्टूबर 2026	पद्य - 5. यह दंतुरित मुस्कान, फसल 6. संगतकार कृतिका- 3. मैं क्यों लिखता हूँ	12 घंटे	* वात्सल्य प्रेम और बाल मुस्कान की विशेषताएं। * फसल के उत्पादन में मनुष्य व प्रकृति के सहयोग का महत्व। * संगतकार का महत्व। * लिखने के लिए प्रेरित करने वाले कारणों से अवगत कराना।	* प्रकृति पर आधारित स्वरचित कविता लिखिए।	* संगतकार की भूमिका पर प्रकाश डालिए।	* शिशु की निश्चल मुस्कान से परिचय, बाल मनोविज्ञान। * प्रकृति और मनुष्य के सहयोग से परिचित कराना, वर्तमान संदर्भ में सहयोग का महत्व। * संगतकार का महत्व, त्याग एवं मानवीय गुण। * लेखक के लिखने के कर्म को स्पष्ट करना लिखने के संभावित कारणों का महत्व।
नवंबर 2026 PT 3 16/09/2026 पूर्ण पाठ्यक्रम	गद्य खंड पद्य खंड व्याकरण पुनरावृत्ति	17 घंटे	पूर्ण पाठ्यक्रम पुनरावृत्ति			

दिसंबर 2026	प्री बोर्ड परीक्षा					
जनवरी 2027	प्री बोर्ड परीक्षा					
फरवरी 2027	बोर्ड परीक्षा 2026- 27					

NAME OF INCHARGE TEACHERS: VINITA CHILHATE | NAMRATA PATHARKAR | SUNITA BHATNAGAR

SIGNATURE OF SUBJECT CORDINATOR: SUNITA BHATNAGAR

SIGNATURE OF PRINCIPAL:

Class 10 Social Science Syllabus 2026-2027
GEOGRAPHY

MONTH	NAME OF THE UNIT/CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES / ASSESMENT	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	Resource and development - resource planning in India, land resources, classification of soil, soil erosion and soil conservation	7 periods = 5.25 hrs	Enumerate how the resources are interdependent, justify how planning is essential in judicious utilization of resources and the need to develop them in India; infer the rationale for development of resources;Analyse and evaluate data and information related to non-optimal land, utilization in india,Appraise and infer the need to conserve all resources available in India.;siggest remedial measures for optimal utilization of underutilized resources	SEA-1 Sustainable development/ Consumer Awareness/ Social Issues (any one topic)	MT 1- Concept Map	To be able to identify Types of Soil , analyse the resource planning, understand the pattern of crops grown in India, agenda 21, various types of soil erosion, causes of land degradation
JUNE	Forest and wildlife resources- conservation of forest and wildlife in India, types and distribution of forest and wildlife resources, community and conservation	7 periods	Examine the importance of conserving forests and wildlife and their interdependency in maintaining the ecology for the sustainable development of India; analyse the role of grazing and wood cutting in the development and degradation; summerizes the reasons for conservation	Assignment on different types of Forest	Activity: poster on conservation of forest and wild life	To be able to examine the different types of flora and fauna around them, To investigate the means and methods to save natural forest and their conservation through plantation
JULY	Water Resources- water scarcity and the need for water conservation and management, multi purpose river project and water resource management, rain water harvesting	7 periods	Examine the reasons for conservation of water resource in India; Analyse and infer how the multi purpose projects are supporting the requirement of water in India	Model on Rainwater harvesting	Concept map (rivers and multi purpose projects), Activity: dam verses traditional methods (debate)	To survey and inspect different types of dams in India, study the roof top water harvesting systems in India, as well as the bamboo drip irrigation of meghalaya, gain knowledge and understanding of the conservation of water and apply in life later
		PT-1				
AUGUST	Agriculture- farming systems of India, cropping patterns, major crops , technological and institutional reforms	10 periods= 7.5 hrs	Intrude in the various types of farming methods, analyse the problems of food scarcity, use of technological methods and facilities provided by the government	Assignment on technological and institutional refoems in agriculture	Identify Major areas of rice and wheat, Major producer State of tea, coffee , rubber, jute, sugarcane in concept map	To identify the problems of intensive farming and commercial farming , to examine the nuances of farming pattern in India, and types of crops that grows in india
SEPTEMBER	Revision	PT-2 exam				
OCTOBER	Lifeline of National Economy	4periods , 1 period IDP	To learn about the working system of transport and communication methods in India	MT-2 interdisciplinary project with chapter 3 of history and chapter 4 of economics	Activity: transportation network model (road/rail/air port), Concept map-major airports and seaports	To have a practical experience on travel through various modes of transportation
	Minerals and Energy Resources - mode of occurance of minerals, ferrous minerals, non ferrous minerals, conservation of minerals, energy resources, conservation of energy resources	10 periods	Differentiate between the conventional and non conventional sources of energy; analyse the importance of mineral and natural resources for economic development of the country; suggest strategies for sustainable use of natural resource	Identify the mineral resourcees in various states	Concept Map, Activity model showing different types of energy (solar , thermal, wind)	To research on the Mining hazards, over exploitation of resources to be reduced or stopped completely

APRIL	The rise of nationalism in Europe - The French revolution and the idea of the nation, the making of nationalism in Europe, the age of revolution, the making of Germany and Italy, visualising the nation, nationalism and imperialism	17 periods	Infer how French revolution had an impact on the European countries in the making of nation state; comprehend the nature of the diverse social movements of the time; analyse and infer the evolution of the idea of nationalism which led to the formation of nation state in Europe and elsewhere; evaluate the reasons which led to the first World War	Activity: Identify flag of different European nations	Map activity - familiarise the location and places of European countries ,	Picture based questions , understand the events that has happened in the past , influence of the past in today's world, references made from the past , lessons learnt from the past, formation of nation state
JUNE	chapter continued					
JULY	Nationalism in India - the first world war, khilafat and non cooperation movement, differing strands within the movement, towards civil disobedience, the sense of collective belongingness	17 periods	Illustrate various facets of Nationalistic movement that ushered in the sense of collective belonging; evaluate the effectiveness of strategies applied by Gandhi and other leaders in the movements organised by him; summarize the effects of the First World War that triggered the two defining movements (Khilafat and non cooperation movement)	Concept Map - places of INC , Satyagraha movement	Poster making on Swadeshi flag and Swaraj flag	Picture based questions , gains knowledge and freedom to question the past, appreciates the freedom struggle,
AUGUST	Age of industrialisation - before the industrial revolution- hand labour and steam power, industrialization in the colony, factories come up , the peculiarities of industrial growth, market for goods	6 periods	watch relevant videos/ visuals/ documentaries/ the movie clippings on features of pre and post economic, political, social features of pre and post industrialization	Assignment on "Growth of Industrialisation in India"	Activity: sketch of an early industrial factory	infer how industrialization impacted colonies with specific focus on India
SEPTEMBER	Revision					
OCTOBER	The making of the Global world, sub topics 1,2,3,4- the premodern world, the nineteenth century, the interwar economy, rebuilding a world economy, the post war era	10 periods	Summarize the changes that transformed the world in terms of economy, political, cultural and technological areas; depicts the global interconnectedness from the premodern to the present day; enumerate the destructive impact of colonialism on the livelihoods of colonised people	Interdisciplinary Project	Activity: travel brochure or advertisement for silk route / colonial trade	Interdisciplinary Project , widens his global knowledge, creates interest in exploring places
NOVEMBER	Print culture and Modern World - the first printed books , print comes to Europe, the print revolution and its impact, the reading mania, the nineteenth century, india and the world of print, religious reforms and public debates, new forms of publication, print and censorship	10 periods , PT3	Enumerate the development of print from its beginnings in East Asia to its expansion in Europe and in India; comment on the statement that the print revolution was not just a way of producing book but profound transformation of people; compare and contrast the old tradition of handwritten manuscripts versus the print technology; summarize the role of print revolution and its impact	Activity: comparative study of print in contemporary world and india	Coverpage of different types of Indian writings	picture based questions , helps to understand the fast changing scenario from reading to technological dependency
DECEMBER	Revision	Final exam				
ECONOMICS						
APRIL	Consumer Rights				SEA- consumer awareness project , activity: make a consumer rights awareness through pamphlet/ badge/ jingle	understand consumerism

JUNE	Development -what development promises: different people different goals, income and the other goals, national development, how to compare different countries or states	12 periods	Enumerated and examine the different processes involved in setting developmental goals that helps in nation building; analyse and infer how the per capita income depicts the economic condition of the nation; evaluate the developmental goals that have been set for the nation by the planning commission of India with specific reference to the efficacy implementatal strategy, relevance of current requirements of the nation; compare and contrast the per capita income of some countries and infer reason	find out your BMI	Poster on public facilities	question answer from the chapter , learn about the different goals, needs and requirement for development in the economy
JULY	continued	PT-1			Sustainable development and circular economy	
AUGUST	Sectors of Indian economy - sectors of economic activity, comparing the three sectors, primary, secondary and tertiary sector in India, division of sector s as organised and unorganised sector, sector in terms of ownership: public and private sectors	12 periods	Analyse and infer how the economic activities in different sectors contribute to overall growth and development of the indian economy; propose solution to identify problems in different sectors based on their understanding; summerize how the organised sectors are providing employment and challenges faced by them enumerates the role of the unorganised sector in impacting per capita income currently and proposals suggestive steps to reduce the unorganised sector for more productive contribution to GDP; enumerates and infer the essential role for public and private sectors, the present	Discussion on present day effect of world economy on India	Atma Nirbhar Bharat- business model	identify the major employment generation sectors that will be beneficial to an working individual
SEPTEMBER	Revision	PT-2				
OCTOBER	Money and credit -money as medium of exchange, modern forms of money, loan activities of bank, two different credit situation, terms of credit, formal sector credit in India, self help group for the poor	12 periods	Enumerates how money plays as a medium of exchange and all transactions of goods and services since ancient times to the present times; analyse and infer various sources of credit; summerise the significance and role of self help group in the better ment of in the economy conditions of rural people/ women	Activity: design your own currency and flow chart on banking system	Mini Bank Model	understand the hands-on experience in exchange of money, activities of a bank, real life experience in banks while filling forms
NOVEMBER	Globalization and Indian economy - production across countries, interlinking producing across countries , foreign trade and integration of market, what is globalization, factors that have enabled globalization, world trade organisations, impact of globalization in India, the struggle for a fair globalization.	14 periods ,PT3	Enumerate the concept of globalisation and its defination, evolution and impact on the global economy; evaluate the key role of the key major drivers of globalisation and their role in shaping the global economic landscape in various countries; comprehends the significance of the role of G20 and it's significance in the light of India 's present role	Collage on globalisation - group activity	IDP , MT-3, activity : create an ad campaign for a multi national brand	learn terms of trade and understand the global market spreading its influence in the Indian market
DECEMBER	Revision					

NAME OF INCHARGE TEACHERS:- ALPHONSA , VIOLET, RAJVINDER, PRABHA, LIGIMOL
SUBJECT COORDINATOR :- MRS. ALPHONSA JOSDAS
SIGNATURE OF PRINCIPAL

Month / No of Working Days	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment/PRACTICALS	Assignment	Assessment
APRIL	CHAPTER 6 LIFE OCESSSES	Students learn about basic concept of nutrition , respiration, transport and excretion in plants and animals	Mounting of leaf peel to show stomata To show action of lungs using a balloon	Draw flow charts to show nutrition ,transportation and respiration in humans	Worksheet
JUNE	CHAPTER 6 CONTINUED		Experimentally show that carbon dioxide is given out during respiration	Draw excretory system of man	MCQ
JULY	PT1 CHAPTER7 Control and coordination in plants and animals	Students understand and also learn about how tropic movement takes place in plants they also understand how phytohormones and animal hormones work. They also analyse the working of reflex action ,CNS,PNS	To observe nerve cell under microscope To study the model of brain	Make a chart to show the three parts of brain and their functions	PT1
AUGUST	CHAPTER 8 How do organisms reproduce ?	Students get information about reproduction in animals and plants, reproductive health need and methods of family planning Child bearing and women's health	To study binary fission in amoeba Budding in yeast and hydra with the help of prepared slide Identification of the different parts of an embryo of dicot seed	How is sex determined in man ? Explain with the help of a diagram	Quiz
SEPTEMBER	TERM 1 (PT 2)				Term1(PT2)

OCTOBER	CHAPTER 9 Heredity	Students get knowledge about Mendel's laws for inheritance of traits Sex determination	To make punnet square with monohybrid and dihybrid traits	What are the three laws of Mendel ? How did he prove it ?	Case based questions
NOVEMBER	CHAPTER 15 Our environment	Students are able to understand Ecosystem, Environmental problems, Ozone layer. Depletion, waste products and find a solution to all these problems	To differentiate between biodegradable and non biodegradable substances	Write a note on Ozone layer depletion	Presentation
DECEMBER	PT 3 (FINAL EXAM)				PT3
JANUARY	PREBOARD				Preboard
FEBRUARY					
MARCH					

NAME OF THE SUBJECT TEACHER:Dr NEERU THAKUR , SHAMPA MAITRA , DIVYA RAJESH

SIGNATURE OF THE SUBJECT COORDINATOR: Dr Neeru Thakur

**CARMEL CONVENT SR. SEC.
SCHOOL, RATANPUR
ACADEMIC YEAR PLAN: 2026-27**

Name of the Subject: Physics (SCIENCE code 086) X

Month	Name Of the Unit / Topics	Time Allotted for each unit	Learning Outcomes	Art Integrated activity/ Project	Practical	Key Competencies to be Achieved
APRIL	Light: Reflection and Refraction :Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.	9(6h)	Students will be able to--- *Differentiates between reflection and refraction. *Plan and conduct investigations/ experiments to arrive at and verify the facts/ principles/ phenomenon that light seems to be travelling in a straight line. *Use Cartesian sign convention for spherical mirrors *learn the concept of focal length of mirrors. *solve practical numericals based on mirrors using mirror formula and	Student will make any one Art integrated activity from following activities. Activity : 1) Make the 3D model of uses of mirrors and lenses.		Understanding the fundamental applying scientific concepts to real developing problem solving skills investigation and experiments stu also be able to communicate find connect scientific concepts to daily Student should be able to explain formed by spherical Mirrors, Mirror the concept of magnification and focusing on these key competenc develop a solid understanding and refraction along with the ability concepts in various situations and their knowledge effectively.
JUNE	Refraction ; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not	6(4h)	Students will be able to--- *Explain processes and phenomena, such as the type of images formed for different lenses.	2) Model explaining refraction and dispersion of light.	EXP.:1) Determination of the focal length of i) Concave mirror ii) Convex lens by obtaining the image of a distant object. EXP.: 2) Tracing the path of a ray of light passing through a rectangular glass slab for	Understanding the fundamental explaining the phenomena of ref applying scientific concept to solve and understand Real world phen should also be able to plan and experiments, communicate their f and relate scientific concepts to d should be able to solve numerical to refraction such as finding the re medium, they should be able to c principle of refraction to Real wor as the uses of lenses in eyeglass telescope and projector etc

	required); Magnification. Power of a lens.		*understand the role of medium/density in refraction. *understand the uses of mirrors and lenses.		different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.	
JULY- AUGUST PT - 1	Human Eye and Colourful World: Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset).	18(10h)	Students will be able to---- * understand the structure of human eye and different parts location and uses. *understand the functioning of lens and eye. *understand the defects of vision and its correction.	3) Working model based on electricity.	EXP.: 3)Tracing the path of the rays of light through a glass Prism.	Understanding the structure and grasping concepts like refraction of light and applying the knowledge to phenomena like rainbows and atmospheric scattering twinkling of stars and the blue sky using the concept of refraction. scattering of light additionally developing solving skills through numerical problems. defect of vision and the power of lens is crucial
AUGUST SEPTEMBER	Electricity: Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of	24(16h)	Students will be able to--- *Use the convention that the direction of electric current is opposite to the direction of flow of electrons.: *Use the SI units and symbols for current, charge, potential difference, resistance, resistivity.		EXP.:4) Studying the dependence of potential difference (V) across a resistor on the current (I)	Understanding and applying concepts of current, voltage, resistance and potential difference. Students should also be able to design basic electrical circuits. understand

	resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.		*Plans and conducts experiments to verify Ohm's law, *understand effect on resistance when the resistors are connected in series and in parallel. *understand heating effect of current. * Explains the process of electric conduction., electric circuit, Ohm's law. *Analyse and interprets V-I		passing through it and determine its resistance. Also plotting a graph between V and I. EXP.:5)Determination of the equivalent resistance of two resistors when connected in Series and Parallel.	factors affecting resistance and principles to solve Real world problems. Students should be able to build and analyse circuits using Ohm's law calculate power, determine the factors affecting resistance. Apply the theory to Real world applications. Students should also develop the skills in measuring using measurement tools. setting up and conducting the experiment. collection and analyze.
SEPTEMBER PT - 2	REVISION for exam.		Students will be able to--- *prepare themselves to take their exams.			
OCTOBER	Magnetic effects of current: Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid.	12(8h)	Students will be able to--- *Relate processes and phenomena with causes/effects such as deflection of compass needle due to magnetic effect of electric current. *Use scientific conventions to represent the direction of magnetic field lines both inside and outside a magnet. *Apply scientific concepts in daily life and solving problems, such as uses appropriate electrical plugs (5/15A) for different electrical devices. *Plans and conducts experiments to verify	5) Make small game using the concepts of magnetic effects of electric current.		Understanding basic concepts like magnetic fields field lines and The Right Hand Rule. Applying these concepts to explain the magnetic field around a straight wire, solenoid and recognising the practical applications of electromagnetism.
NOVEMBER PT - 3	Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating	9(6h)	Students will be able to---- *Differentiate between the			Students will be able to understand the concepts on the current carrying

	current: frequency of AC. Advantage of AC over DC. Domestic electric circuits.		process of direct and alternating current conduction. * Describe the contributions of Fleming, Faraday, Oersted in the field of electricity and magnetism.			conductor when placed in a ma will be able to understand the a concept. Students should also l differentiate between AC and D
DECEMBER (PRE-BOARD)	FULL SYLLABUS REVISION		Revision and Exam.			
JANUARY PREBOARD Exam.	FULL SYLLABUS		Exam			

NAME OF INCHARGE TEACHER: ARCHANA TALELE

SUBJECT CO-ORDINATOR: ARCHANA TALELE

SIGNATURE OF THE PRINCIPAL:

CARMEL CONVENT SR SEC SCHOOL, RATANPUR

YEAR PLANNER 2026-27 ,

CLASS - X

SUBJECT- Sanskrit

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTE D	LEARNING OUTCOME S	SUGGESTE D ACTIVITIE S / ASSESSME NT/PRAC TICAL	ART INTEGRAT ED ACTIVITY	KEY COMPETE NCIES
April	प्रथमः पाठः शुचिपर्यावर णम् व्याकरण सन्धि व्यंजनसन्धि	22 घण्टे	पर्यावरण की रक्षा करना करना चाहिए इसके बिना जीवन असम्भव है	सन्धियों का चार्ट बनाकर प्रत्येक के दश उदाहरण लिखिये।	मध्यप्रदेश के स्थापना दिवस पर होने वाले सांस्कृतिक कार्यक्रमों का तथा बिहारराज्य के छठ पर्व का सचित्र संक्षिप्त विवरण दीजिये। परियोजना कार्य 15 घण्टे	पर्यावरण की रक्षा
June	द्वितीयः पाठः बुद्धिर्बलवती सदा व्याकरण विसर्ग सन्धि चतुर्थः पाठः शिशुलालनम्	12 घण्टे	बौद्धिक बल शारीरिक बल से बढ़कर होता है	वाच्य किसे कहते हैं उनके भेद लिखते हुए प्रत्येक के दो-दो उदाहरण लिखिये।		बौद्धिक बल की महत्ता
July	पञ्चमः पाठः जननी तुल्यवत्सला व्याकरण समास तत्पुरुष, बहुव्रीहि, अव्ययीभाव, द्वन्द्व	24 घण्टे	माता सभी सन्तानों को समान रूप से प्यार करती है लेकिन कमजोर सन्तान की ओर उसका अधिक लगाव होता है	सरस्वती का चित्र चिपकाकर या बनाकर सरस्वती वंदना लिखिए। 10 घण्टे PT1 पाठ1-2		मातृभूमि प्रेम

[illegible]

December				Pre board		
January						
February						
March						

Name of Incharge Teachers: ____

SANGEETA YADAV_____

Signature of Coordinator: __

Sangeeta Yadav_____

Signature of Principal: _____

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CARMEL CONVENT SR SEC SCHOOL, RATANPUR

YEAR PLANNER 2026-27

CLASS - X

SUBJECT- CHEMISTRY

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES / ASSESSMENT/PR ACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	Chapter 1: Chemical Reactions and Equations • Chemical equation & balancing • Implications of a balanced chemical equation • Types of chemical reactions: Combination, Decomposition, Displacement, Double displacement, Precipitation, Endothermic & Exothermic	15 Periods	• Differentiate between physical and chemical changes. • Balance chemical equations accurately. • Identify and classify different types of chemical reactions based on observations.	• Practical: Performing and observing types of reactions (e.g., burning Mg ribbon, action of water on quicklime). • Assessment: Competency based worksheet	Making a 3D poster on A3 paper on ch1 or ch2 including art of Bihar	• Analytical Thinking • Observation Skills • Scientific Temper

	reactions, Oxidation & Reduction.					
MAY	Chapter 2: Acids, Bases and Salts (Intro) • Definitions in terms of furnishing of H^+ and OH^- ions • General chemical properties of acids and bases • Concept and definition of pH scale.	08 Periods	• Classify substances as acidic or basic using indicators. • Understand the chemical behavior of acids and bases with metals, metal carbonates, and bases.	• Activity: Testing the pH of various solutions common in daily life (lemon juice, soap solution, etc.) using pH paper/litmus.	"Indicator Art": Using natural indicators like turmeric paste or red cabbage juice extract to create greeting cards that change color with soap/lemon.	• Critical Thinking • Experimental Skills
JUNE	Chapter 2: Acids, Bases and Salts (Contd.) • Importance of pH in everyday life • Preparation, properties, and uses of Sodium Hydroxide, Bleaching	06 Periods	• Explain the significance of pH in soil, digestive system, and tooth decay. • Recall chemical formulas, preparation methods, and industrial uses of commercial salts.	• Activity: Investigating the heating of Copper Sulphate crystals. • Assessment: Viva-voce and MCQ quiz on the properties of salts.	Designing a visually appealing "pH Scale Poster" representing the pH values of common household chemicals with color coding.	• Application to Real Life • Information Processing

	powder, Baking soda, Washing soda, and Plaster of Paris.					
JULY	Chapter 3: Metals and Non-metals - Physical properties of metals and non-metals - Chemical properties of metals (reaction with water, oxygen, acids, and other metal salts) - Reactivity series.	18 Periods	- Contrast physical and chemical properties of metals and non-metals. - Formulate the reactivity series based on displacement reactions.	Practical: Observing the action of Zn, Fe, Cu, and Al metals on their salt solutions and arranging them in decreasing order of reactivity.	Designing a "Metals Reactivity Periodic Ladder" using colorful crafts or ribbons to visually rank elements based on activity.	- Classification Skills - Comparative Analysis
AUGUST	Chapter 3: Metals and Non-metals (Contd.) - Formation and properties of ionic compounds - Basic metallurgical processes	16 Periods	- Illustrate the electron transfer process in the formation of ionic bonds. - Understand extraction steps for metals and methods to prevent	- Activity: Demonstrating conditions necessary for the rusting of iron using test tubes. - Assessment: Periodic Test-I covering Chapters 1, 2, and 3.	Creating a comic strip or storyboard detailing the "Theft of Electrons" between a metal and a non-metal during ionic bonding.	- Logical Reasoning - Abstract Visualization

	• Corrosion and its prevention.		rusting/corrosion.			
SEPTEMBER	Mid-Term Revision & Examinations • Comprehensive revision of Chapters 1, 2, and 3. • Mid-Term Evaluations.	12 Periods	• Consolidate learning from the first term. • Identify learning gaps and improve descriptive answer writing.	• Solving previous years' CBSE question papers. • Remedial doubt-clearing sessions based on diagnostic tests.	Formulating a "Chemistry Crossword Puzzle" board game using terms from chapters 1-3.	• Self-Evaluation • Time Management
OCTOBER	Chapter 4: Carbon and its Compounds • Covalent bonding in carbon compounds • Versatile nature of carbon (Catenation, Tetravalency) • Homologous series • Nomenclature of functional groups.	16 Periods	• Explain the nature of covalent bonding using electron dot structures. • Recognize the uniqueness of carbon in forming vast compounds. • Name simple organic compounds.	• Activity: Drawing electron dot structures for H₂, O₂, N₂, NH₃, CH₄, and CO₂. • Assessment: Pen-paper slip test on IUPAC nomenclature.	3D Molecular Modeling: Using clay/dough play and toothpicks to construct physical models of saturated and unsaturated hydrocarbons.	• Spatial Reasoning • Structural Mapping
NOVEMBER	Chapter 4: Carbon and its	14 Periods	• Differentiate between	• Practical: Study the comparative	Creating an ad-campaign poster	• Problem Solving

	Compounds (Contd.) • Chemical properties of carbon compounds (Combustion, Oxidation, Addition, Substitution) • Ethanol and Ethanoic acid (properties and uses) • Soaps and detergents (Micelle formation).		substitution and addition reactions. • Compare the properties of ethanol and ethanoic acid. • Explain the mechanism of cleansing action of soaps.	cleansing capacity of a sample of soap in soft and hard water. • Assessment: Subjective worksheet on Carbon and its Compounds.	or a flip-book animation showcasing how a soap micelle traps a dirt particle.	• Scientific Inquiry
DECEMBER	Syllabus Completion & Pre-Board I • Full Syllabus Revision (Chapters 1 to 4). • Commencement of Pre-Board Examinations.	18 Periods	• Integrate knowledge from all units. • Master the blueprint of CBSE board examination question papers.	• Mock board examinations under strict exam-room conditions. • Detailed analysis of error patterns in Pre-Board answer scripts.	Constructing rapid-revision flashcards with chemical formulas on one side and balancing steps on the back.	• Critical Evaluation • Stress Management

JANUARY	Pre-Board II & CBSE Practical Preparations • Remedial learning sessions. • Board Practical internal evaluations.	15 Periods	• Refine presentation, graph plotting, and laboratory writing skills. • Build confidence for final practical board examinations.	• Final verification of laboratory journals and records. • Mock viva-voce sessions based on CBSE practical guidelines.	Blueprinting and drawing pristine, labeled layouts of standard laboratory setups for chemical reactions.	• Technical Precision • Communicative Skill
FEBRUARY / MARCH	CBSE Board Examinations • Final Board Exams.	As per CBSE Schedule	• Express scientific concepts clearly, accurately, and within the time limit during final board assessments.	• Final motivational and stress-relief counseling sessions. • Board examination execution.	Visualizing goals and progress using custom academic trackers.	• Academic Excellence • Representation Skills

Name of Incharge Teachers: Mrs Bindu Dalal, Dr Pragati Vijay, Mrs Leena Shukla

Signature of Coordinator: _____

Signature of Principal: _____

CLASS : X

SUBJECT: AI

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED FOR EACH UNIT	LEARNING OUTCOMES	ART INTEGRATED ACTIVITY/ART INTEGRATED PROJECT	PRACTICALS	KEY COMPETENCIES TO BE ACHIEVED.
APRIL	ICT skills -II Session 1 Introduction to ICT Session 2 Basic components of a Computer system Session 3 Operating System Session 4 The world of Internet	12 hrs	Here students learn about Basic components of O/S, Types of O/S, Knowledge about Internet.	Create a chart on Different ICONS of windows 10	Data sheet on different O/Ss, Components of computer system	1. Students will learn Computer operations. 2. Able to perform Basic file operations
JUNE	Entrepreneurial Skills Session 1 Entrepreneurship and Business Session 2 Who is Entrepreneur? Unit 5 Green Skills Session 1 Society and Environment conservation Session 2 Importance of green economy	6 hrs	What are the primary type of business? Know about environment and impact human activity on it, Learn the importance of Green Economy	Writing a note on Entrepreneurship Characteristics of an Entrepreneurship How to cut down the trash we produce every year in points Rethink, Refuse, Reduce, Recycle and Reuse	Collect data from internet about primary Entrepreneur Prepare a PPT about the carbon footprint of India	1. Learn the characteristics of an Entrepreneurship 1. Understanding the importance of Sustainable Development. 2. Knowledge of Green Economy
JULY	Unit 1 Revisiting AI project cycle Session 2 Domains of AI	12 hrs	To identify and appreciate Artificial Intelligence and describe its applications in daily life.	Introduction to AI and setting up the context of the curriculum	AI Quiz (Paper Pen/Online Quiz)	1. To let the students analyse the advantages and disadvantages of Artificial Intelligence.

CLASS : X

SUBJECT: AI

	Session 3 Ethical Framework for AI Session 4 Types of Ethical Frameworks Session 5 Bioethics- Framework for Healthcare		To relate, apply and reflect on the Human-Machine Interactions. To gain awareness around AI bias and AI access.	Ice Breaker Dream Smart Home idea· Learners to design a rough layout of floor plan of their dream smart home.		
AUGUST	Unit 2 Advanced concepts of Modelling in AI Session 1 Understanding AI, ML and DL Session 2 Types of AI Models Session 3 Artificial Neural Networks	12 hrs	Identify data requirements and find reliable sources to obtain relevant data.	Chart on data and its types.	Difference between Tableau Desktop and Tableau Public	1. Learn problem scoping and ways to set goals for an AI project. 2. Learn primary purpose of an Interactive dashboard
SEPTEMBER	Unit 3 Evaluating Models Session 1 Importance of Model Evaluation Session 2 Accuracy and error and evaluation metrics Session 3 Ethical concerns around model evaluation	6 hrs	Students will be able to define Generative AI & classify different kinds. Students will be able to explain how Generative AI works and recognize how it learns.	Create a chart on weather forecasting using AI probabilistic models.	How does probability enhance weather forecasting?	1. What is the primary use of statistics in sports data analysis?
OCTOBER	Part – A Unit 2 Self-management Skills Session 1 Self Management Session 2 Building Self – Confidence Part – B Statistical Data Session – 1 Exploring data science and No- code AI Applications Session-2 Orange data mining tools	12 hrs	Identify various types of business and business ownership Recognise entrepreneurship development process	Exercises on stress management, Planning of an activity	Read the book on Self – management, prepare a report on it and present it in your class.	1. What is positive mental attitude? 2. What is the importance of positive thinking?

CLASS : X

SUBJECT: AI

NOVEMBER	Part -B Computer vision Session -1 Computer vision and Its Applications Session – 2 Concepts of Computer Vision Session – 3 No – Code AI Tools Session- 4 Convolution Operator Chapter – 6 Natural Language Processing Session -1 What is Natural Language Processor? Session -2 Various stages of NLP Session – 3 Chatbots Session – 4 Text Normalisation Techniques Session – 5 Code and NO – Code NLP Tools Session- 6 Sentiment Analysis Unit 5 Introduction to Python	12 hrs	Students will be able to learn the basic concepts and importance of the topic. Identify key components and their functions. Develop critical thinking and decision making skills. Students will be able to understand the complexities of natural languages and the need for NLP. Learn the stages of NLP and logical text analysis. Learn basic programming skills through gamified platforms. Acquire introductory Python programming skills in a very user – friendly format.	Writing algorithms for 1. Making a Cup of Tea 2. Calculating the 3. Area of Circle	Practical activity page no – 295 Observe how each one works and write down its main function in the space provided using the following chatbots: elBot, Jabberwacky, Ometrics, Cleverbot. Divide students in groups : Different programming paradigms supported by Python.	1. NLP allows businesses to automate tasks like translation, sentiment analysis and text classification. 2. NLP tools like NLTK, spaCy and Gensim help in text processing, sentiment analysis and names entity recognition. 1. Write a program to enter two numbers and print their difference. 2. Write a program to calculate area of a 3. triangle.
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NAME OF INCHARGE TEACHERS: Lata Iyer, Praveen Agrawal, Anita Mandal

SIGNATURE OF SUBJECT CORDINATOR:

SIGNATURE OF PRINCIPAL: