

BHARATIYA VIDYA BHAVAN , KOCHI
YEAR PLAN 2025-2026
STD X ENGLISH

MONTH	MAIN TEXT	SUPPLEMENTARY READER	GRAMMAR	WRITING
MARCH	UNIT 1	UNIT 1 - A Triumph of Surgery		Letter of Complaint
	a. A Letter to God			Letter of Enquiry
	b. Dust of Snow(P)			
	c. Fire and Ice(P)			
APRIL	UNIT - 2	UNIT 2- The Thief's Story		
	a. Nelson Mandela : Long Walk to Freedom		Determiners	
	b. A Tiger in the Zoo(P)			
	UNIT - 3 (Not included for P1)			
	a. Two Stories About Flying			
	I. His First Flight			
	PERIODIC TEST 1 (9 JUNE to 16 JUNE)			
JUNE (22)	UNIT-3			
	II. Black Aeroplane	UNIT 3- The Midnight Visitor	Tenses	Letter for Placing Order
	a. How to Tell Wild Animals	UNIT 4 - A Question of Trust		
	b. The Ball Poem			
JULY (24)	UNIT 4			
	a. From the Diary of Anne Frank	UNIT 5 - Footprints Without Feet		
	b. Amanda!		Modals	
	UNIT -5			
	a. Glimpses of India			
	I. A Baker From Goa			
	II. Coorg			

	III. Tea From Assam (Not included for P2)			
	PERIODIC TEST 2 - (25 JULY to 4 AUG)			
AUG (21)	UNIT -5 The Trees			
	UNIT-6	UNIT 6- The Making of a Scientist	Sub-verb concord	Letter to the Editor
	a. Mijbil the Otter	UNIT 7 - The Necklace		Analytical Paragraph
	b. Fog (P)			
	UNIT -7			
	a. Madam Rides the Bus			
SEP (18)	UNIT 7			
	UNIT -7 b. The Tale of Custard the Dragon (P)	UNIT 8 - Bholi	Reported Speech	
	UNIT 8			
	a. The Sermon at Benares			
	b. For Anne Gregory(P) (Not included for P3)			
	PERIODIC TEST 3 / PRE-MODEL EXAM - (8 OCT TO 18 OCT)			
OCT (22)	UNIT 9 - The Proposal	UNIT 9 - The Book that Saved the Earth		
	FIRST MODEL EXAMINATION - 25 NOV 2025 TO 12 DEC 2025			
	SECOND MODEL (AKBME) - 1 JAN 2026 TO 14 JAN 2026			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
YEAR PLAN FOR THE ACADEMIC YEAR 2025-26
MALAYALAM
CLASS - X

MONTH	TOPIC	SUB-TOPICS	CONCEPTS	EVALUATION
ഏപ്രിൽ	കാലാതീതം കാവ്യവിസ്മയം അനുഭൂതികൾ ആവിഷ്കാരങ്ങൾ	1.ലക്ഷ്മണസാന്ത്വനം. 2.കടൽത്തീരത്ത്	ഭാഷാപിതാവ്-പ്രാചീന കവിത്രയം കലഹം നിരർത്ഥകം, ഭക്തി പ്രസ്ഥാനം കിളിപ്പാട്ട് പ്രസ്ഥാനം. * കാവ്യാത്മകമായ ഗദ്യം * രചനാകാലത്തെ സാമൂഹികപശ്ചാത്തലം. ആധുനിക ചെറുകഥ	
	രചന	വാക്യപ്രയോഗം അവധാരണം കത്ത്(ഔദ്യോഗികം)	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	
മാർച്ച്	അനുഭൂതികൾ ആവിഷ്കാരങ്ങൾ, കാലാതീതം കാവ്യവിസ്മയം	3.പ്രിയദർശനം 4.പാവങ്ങൾ	* ആധുനിക കവിത്രയം * ഖണ്ഡകാവ്യം * ജീവിതഗന്ധിയായ കവിതകൾ * ജീവിതദർശനം കവിതയിലൂടെ .	P 1 : ലക്ഷ്മണ സാന്ത്വനം, കടൽത്തീരത്ത് *പ്രയോഗം മാറ്റുക *അംഗംഗിവാക്യങ്ങൾ *വാക്യ പ്രയോഗം * അവധാരണം *കത്ത് (ഔദ്യോഗികം)

ഔദ്യോഗിക	വ്യാകരണം	കർത്തരി പ്രയോഗം കർമ്മണിപ്രയോഗം വിധിവാക്യം നിഷേധവാക്യം അംഗാംഗി വാക്യങ്ങൾ	ഭാഷാപ്രയോഗശേഷി	
ജ്യോതിഷം	സംഘർഷങ്ങൾ സങ്കീർത്തനങ്ങൾ	5.യുദ്ധത്തിന്റെ പരിണാമം	നിരൂപണ പ്രസ്ഥാനം * ഇതിഹാസങ്ങളുടെ സമകാലിക പ്രസക്തി. * യുദ്ധക്കൈതുകൾ	P 2 : പ്രിയദർശനം പാവങ്ങൾ വിധി - നിഷേധം പ്രയോഗം മാറ്റുക അംഗാംഗി വാക്യങ്ങൾ വാക്യ പ്രയോഗം ഉപന്യാസം
ആഗസ്റ്റ്	ജീവിതം പടർത്തുന്ന വേരുകൾ, വാക്കുകൾ വിടരുന്ന പുലരികൾ	6.അമ്മത്തൊട്ടിൽ 7.പത്രനീതി (HPC)	വാർദ്ധക്യത്തിന്റെ നിസ്സഹായത *പ്രയോഗ ഭംഗി *ആധുനിക സമൂഹത്തിന്റെ മനോഭാവം *കവിതയുടെ കാലിക പ്രസക്തി	
	രചന	പത്രറിപ്പോർട്ട് ഉപന്യാസം	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	

സെപ്റ്റംബർ	വാക്കുകൾ സർഗ്ഗതാളങ്ങൾ	8.അശ്വമേധം	ആധുനിക ചെറുകഥകൾ * കഥകളിലെ അപേതന കഥാപാത്രങ്ങൾ *ഭാവാത്മകത * വികാരപരത	
	രചന	വാക്യശുദ്ധി	ഭാഷാപ്രയോഗശേഷി	
ഒക്ടോബർ	നിലാവ് പെയ്യുന്ന നാട്ടുവഴികൾ ജീവിതം പടർത്തുന്ന വേരുകൾ	9. ഓണമുറ്റത്ത് 10. പ്ലാവിലക്കഞ്ഞി(HPD)	*കേരളത്തിന്റെ സാംസ്കാരികപൈതൃകത്തിലുള്ള അഭിമാനം * ഗ്രാമീണസൗന്ദര്യം *ജീവിതത്തിലെ ഇല്ലായ്മകളെ സ്നേഹം കൊണ്ട് അതിജീവിക്കുക * പ്രകൃതിയിലെ മാനുഷികഭാവങ്ങൾ. * ഭാഷാഭേദങ്ങളുടെ ആസ്വാദ്യത * ദരിദ്രരുടെ ജീവിതാവസ്ഥയുടെ ചിത്രീകരണം	P 3 യുദ്ധത്തിന്റെ പരിണാമം അമ്മത്തൊട്ടിൽ , അശ്വമേധം പത്രനീതി പത്രറിപ്പോർട്ട് വാക്യപ്രയോഗം, വാക്യശുദ്ധി വിധിവാക്യം - നിഷേധവാക്യം അംഗാംഗി വാക്യങ്ങൾ
നവംബർ		ആവർത്തനപാഠങ്ങൾ		

ഡിസംബർ		ആവർത്തനപരിശീലനം	ഭാഷാശുദ്ധി	Model Examinations I & II /Final Examination Topics - 1.ലക്ഷ്യമേന്മ സാന്നിധ്യം 2.പ്രിയദർശനം 3.അമ്മത്തൊട്ടിൽ 4.ഓണമുറ്റത്ത് 5.കടൽത്തീരത്ത് 6. യുദ്ധത്തിന്റെ പരിണാമം 7. അശ്വമേധം 8. പ്ലാവിലകഞ്ഞി 9. പത്രനീതി 10. പാവങ്ങൾ വ്യാകരണം- അംഗാംഗി വാക്യങ്ങൾ, വാക്യശുദ്ധി, വാക്യപ്രയോഗം , വിധിവാക്യം - നിഷേധ വാക്യം, പ്രയോഗം മാറ്റുക അവധാരണം, കത്ത്, പത്രനിപ്പോർട്ട്, ഉപന്യാസം
ജനുവരി & ഫെബ്രുവരി		ആവർത്തന പരിശീലനം		

BVM Girinagar

BHARATIYA VIDYA BHAVAN, KOCHI			
YEAR PLAN FOR THE ACADEMIC YEAR 2025-2026			
HINDI STD X			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
मार्च - अप्रैल	पद्य	कबीर - साखी	नैतिक मूल्यों पर आधारित ज्ञान
	गद्य	बड़े भाई साहब	अनुभव ज्ञान और व्यावहारिक ज्ञान का सामंजस्य
	व्यावहारिक व्याकरण	मुहावरे	व्याकरणिक शिक्षा
	लेखन कार्य	अनुच्छेद लेखन , लघुकथा लेखन , औपचारिक पत्र , विज्ञापन लेखन	लेखन विधि , शुद्ध लेखन शैली का विकास
जून	PERIODIC TEST -1 PORTIONS :- कबीर - साखी , बड़े भाई साहब , मुहावरे , विज्ञापन लेखन , पत्र लेखन , अनुच्छेद लेखन		
	पद्य	मीरा-पद	ईश्वर भक्ति
	पूरक पुस्तक	हरिहर काका	रिश्तों की अहमियत
	व्यावहारिक व्याकरण	पदबंध	व्याकरणिक शिक्षा
	रचनात्मक लेखन	सूचना लेखन , अपठित गद्यांश	शुद्ध लेखन शैली का विकास
जुलाई	पद्य	मनुष्यता	मानवता
	गद्य	झायरी का एक पन्ना	देशप्रेम
	पूरक पुस्तक	सपनों के से दिन	बाल मनोविज्ञान
	व्यावहारिक व्याकरण	समास	व्याकरणिक शिक्षा
	PERIODIC TEST - 2 PORTIONS :- मीरा के पद , झायरी का एक पन्ना , हरिहर काका , पदबंध , लघु कथा लेखन , सूचना लेखन , अपठित गद्यांश		
अगस्त	पद्य	कर चले हम फ़िदा , आत्मत्राण	सैनिक जीवन की चुनौतियाँ , देशप्रेम , आत्मोद्धार
	गद्य	ततौरा-वामीरो कथा , अब कहाँ दूसरे के दुःख से दुखी होने वाले	रुढ़ियाँ बंधन नहीं , मानव हित के लिए हो , पर्यावरण और मानव - अटूट संबंध
	रचनात्मक लेखन	औपचारिक ई - मेल लेखन	लेखन विधि
सितंबर	पद्य	तोप , पर्वत प्रदेश में पावस	ताकत पर घमंड न करना , प्रकृति के प्रति जिम्मेदारी
	गद्य	तीसरी कसम के शिल्पकार शैलेंद्र	धन लिप्सा रहित कला के प्रति सौ प्रतिशत समर्पण
	पूरक पुस्तक	टोपी शुक्ला	मित्रता , धार्मिक समरसता
अक्टूबर	PRE MODEL [PERIODIC TEST-3]-PORTIONS		
	खंड -क - अपठित गद्यांश		
	खंड -ख - पदबंध, समास, मुहावरे		
	खंड -ग - गद्य - बड़े भाई साहब , झायरी का एक पन्ना , ततौरा -वामीरो कथा , अब कहाँ दूसरे के दुःख से दुखी होने वाले , तीसरी कसम के शिल्पकार शैलेंद्र		
	पद्य - कबीर -साखी , मीरा -पद , मनुष्यता , कर चले हम फ़िदा , आत्मत्राण , पर्वत प्रदेश में पावस , तोप		
	पूरक पुस्तक - हरिहर काका , सपनों के से दिन , टोपी शुक्ला		
	खंड -घ - लेखन - अनुच्छेद लेखन , औपचारिक पत्र लेखन , सूचना लेखन , विज्ञापन लेखन , लघु कथा लेखन , औपचारिक ई -मेल लेखन		
	गद्य	पतझर में टूटी पतियाँ , कारतूस	व्यावहारिक आदर्शवाद , बौद्ध दर्शन , देशप्रेम और साहस
	व्याकरण	रचना के आधार पर वाक्य रूपांतरण	वाक्य गढ़न
नवंबर /दिसंबर	FIRST MODEL EXAM - FULL PORTION - (MARCH-NOVEMBER) (QUESTION PAPER PATTERN - CBSE BOARD EXAM PATTERN)		
जनवरी	SECOND MODEL EXAM - FULL PORTION - (MARCH-NOVEMBER) (QUESTION PAPER PATTERN - CBSE BOARD EXAM PATTERN)		
फरवरी - मार्च	BOARD EXAM		

BHARATIYA VIDYA BHAVAN, KOCHI			
STD X SANSKRIT - YEAR PLAN FOR THE ACADEMIC YEAR 2025-2026			
MONTH	TOPIC	SUB- TOPICS	CONCEPTS
JUNE	1.पद्यम्	शुचिपर्यावरणम् ।	प्रकृतिसंरक्षणम्
	अभ्यासवान् भव	अपठित- अवबोधनम्, रचनात्मकं कार्यम्, अनुवादः च सर्वेषां सत्राणां कृते।	
	2.गद्यांशः	बुद्धिर्बलवती सदा ।	बुद्धिरेव बलम् ।
	व्याकरणम्	सन्धिः- व्यञ्जनसन्धिः, समासः - तत्पुरुषः । प्रत्ययौ - टाप् , डीप् च । अव्ययानि, समयः। (स्वरसन्धिः- यण्, अयादि, पूर्वरूपसन्धिः, समासः- कर्मधारयः, उपपद-तत्पुरुषः)	व्याकरणावबोधः
P1- JUNE 5 to 10, 1 Portion- LESSONS- 1. शुचि पर्यावरणम्, 2. बुद्धिर्बलवती सदा, 3. अभ्यासवान् भव, समासः- तत्पुरुषः, टाप्, डीप्, अव्ययानि, समयः।			
JULY	4.नाट्यांशः	शिशुलालनम् ।	रामायणकथापरिचयः ।
	व्याकरणम्	सन्धिः-विसर्गसन्धिः, समासः - अव्ययीभावः , कर्मधारयः, उपपद-तत्पुरुषः	व्याकरणावबोधः
	5. गद्यांशः	जननी तुल्यवत्सला ।	मातृस्नेहः ।
	व्याकरणम्	प्रत्ययाः - मत्पु, ठक्, त्व, तल् ।	
P2- 25/7/25 to 4/08/25, PORTIONS- LESSONS- 4, शिशुलालनम् & 5. जननी तुल्यवत्सला, स्वरसन्धिः-यण्, अयादि, पूर्वरूपसन्धिः, विसर्गसन्धिः, समासः- कर्मधारयः, उपपद-तत्पुरुषः, अव्ययीभावः। प्रत्ययाः- मत्पु, ठक्, त्व, तल्			
AUGUST	7.नाट्यांशः 6. पद्यम्	सौहार्दं प्रकृतेः शोभा । सुभाषितानि ।	पारस्पर्यविषये गद्यांशः ।
	व्याकरणम्	लिङ्ग- विभक्ति- लकार- दृष्ट्या। प्रत्ययाः- तव्यत्, अनीयर्, क्त, क्तवत्	समासज्ञानम्।
SEPTEMBER	8. गद्यांशः, 9. पद्यम्	विचित्रः साक्षी, सूक्तयः ।	न्यायान्यायविवेकः।
	व्याकरणम्	वाच्यपरिवर्तनम्। (लट्)	वाच्यपरिचयः
OCTOBER	12.पद्यम्।	अन्योक्तयः ।	अन्योक्तीनामवबोधः।
		P3- 8/10/25 to 18/10/25- PORTIONS- LESSONS- 1,2,4,5,6,7,8,9&व्याकरणम्।	
NOVEMBER	Revision, First model exam- 25/11/2025 to 12/12/2025 Portions- Lessons- All lessons & Grammar		
DECEMBER	First Model Exam Continues till 12/12/2025- Lessons- All lessons & Grammar		
JANUARY	Second Model Exam- 1/1/2026 to 14/1/2026 - All lessons & Grammar		
	(अपठितानुच्छेदः, रचनानुवादः, पत्रलेखनम्, चित्रवर्णनम् च सर्वेषां सत्राणाम् कृते अवश्यकानि)।		

BHARATIYA VIDYA BHAVAN, KOCHI
MATHEMATICS - Std : X

YEAR PLAN FOR THE ACADEMIC YEAR 2025-2026			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	1-REAL NUMBERS	Fundamental Theorem of Arithmetic Revisiting irrational numbers	Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$.
MARCH	2-POLYNOMIALS	Geometrical Meaning of the Zeroes of a Polynomial. Relationship between Zeroes and Coefficients of a Polynomial.	Zeroes of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.
APRIL	3-PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	Graphical Method of Solution of a Pair of Linear Equations. Algebraic Methods of Solving a Pair of Linear Equations- Substitution Method, Elimination Method,	Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems
JUNE	4-QUADRATIC EQUATIONS	Quadratic Equations Solution of a Quadratic Equation by Factorisation and by using quadratic formula. Nature of Roots	Standard form of a quadratic equation $ax^2 + bx + c = 0$, ($a \neq 0$). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.

JUNE	Periodic Test 1- Chapters 1 and 2 (09-06-2025 to 16-06-2025)		
JUNE	5-ARITHMETIC PROGRESSIONS	Arithmetic Progressions, nth Term of an AP, Sum of First n Terms of an AP	Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first n terms of A.P. and their application in solving daily life problems
JULY	6-TRIANGLES	Similar Figures Similarity of Triangles Criteria for Similarity of Triangles	triangles. 1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. 2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. 3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. 4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. 5. 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.
JULY	7-COORDINATE GEOMETRY	Distance Formula, Section Formula	Distance formula. Section formula (internal division).
	Periodic Test 2- Chapters 1,2,3,4,5(25-07-2025 to 04-08-2025)		

AUGUST	7-COORDINATE GEOMETRY (continued.....)		
AUGUST	13-STATISTICS	Mean of Grouped Data Mode of Grouped Data Median of Grouped Data	Mean, median and mode of grouped data (bimodal situation to be avoided).
	14- PROBABILITY	Probability — A Theoretical Approach	Classical definition of probability. Simple problems on finding the probability of an event.
SEPTEMBER	8-INTRODUCTION TO TRIGONOMETRY	Trigonometric Ratios Trigonometric Ratios of Some Specific Angles Trigonometric Identities	Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios whichever are defined at 0° and 90° . Values of the trigonometric ratios of 30° , 45° and 60° . Relationships between the ratios. Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given.
	9-SOME APPLICATIONS OF TRIGONOMETRY	Heights and 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°
SEPTEMBER	10-CIRCLES	Tangent to a Circle, Number of Tangents from a Point on a Circle.	Tangent to a circle at, point of contact 1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to a circle are equal.
PRE MODEL(PERIODIC TEST-3) Chapters – 1,2,3,4,5,6,7,8,9,10,13,14(08-10-2025 to 18-10-2025)			

OCTOBER	11-AREAS RELATED TO CIRCLES	Areas of Sector and Segment of a Circle.	Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60° , 90° and 120° only.
NOVEMBER	12-SURFACE AREAS AND VOLUMES	Surface Area of a Combination of Solids. Volume of a Combination of Solids.	Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.
FIRST MODEL EXAMINATION – (25-11-2025 to 12-12-2025)			

BHARATIYA VIDYA BHAVAN,KOCHI
STD: X PHYSICS
YEAR PLAN (2025 - 2026)

MONTH	UNIT	TOPIC
March-April	9	<u>Light - Reflection and Refraction</u> (upto - 9.2.4, Mirror formula and magnification)
June	9	Light - Reflection and Refraction (Contd.) PERIODIC TEST 1(9th June to 16th June) Portions: Ch :9 upto 9.2.3 (upto Sign convention for mirrors)
July	10	The Human eye and the Colourful World PERIODIC TEST II (25th July to 4th August) CH: 9,10(upto 10.3-refraction of light through a prism)
August	11	Electricity (Upto 11.7, heating effect of electric current)
September	11 12	Electricity (contd....) Magnetic Effects of Electric Current (upto 12.2.4, Magnetic field due to a current in a solenoid)
October	12	Magnetic Effects of Electric Current (contd.....) PRE MODEL EXAMINATION(PERIODIC TEST III)(8th October to 18th October) Portions: Ch 9,10, 11(ch:11,upto 11.7-heating effect of electric current) REVISION
November-December	12	FIRST MODEL EXAMINATION (25th Nov to 12th Dec) CHAP: 9,10,11,12 (FULL PORTION)
January		SECOND MODEL EXAMINATION (1st Jan to 14th Jan)
February		FINAL EXAMINATION
March		FINAL EXAMINATION

BHARATIYA VIDYA BHAVAN, KOCHI
YEAR PLAN FOR THE ACADEMIC YEAR 2025-'26
STD X - CHEMISTRY

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH -APRIL	CHEMICAL REACTIONS AND EQUATIONS	CHEMICAL EQUATIONS TYPES OF CHEMICAL REACTIONS HAVE YOU OBSERVED THE EFFECTS OF OXIDATION REACTIONS IN EVERYDAY LIFE ?	Writing a Chemical Equation Balanced Chemical Equations Combination Reaction Decomposition Reaction Displacement Reaction Double Displacement Reaction Oxidation and reduction Corrosion Rancidity
	PERIODIC TEST -1 (09/06/2025 -16/06/25) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS		
JUNE	ACIDS, BASES AND SALTS	UNDERSTANDING THE CHEMICAL PROPERTIES OF ACIDS AND BASES WHAT DO ALL ACIDS AND ALL BASES HAVE IN COMMON? HOW STRONG ARE ACID OR BASE SOLUTIONS?	Acids and bases in the laboratory. How do acids and bases react with metals ? How do metal carbonates and metal hydrogen carbonates react with acids ?
JULY	ACIDS,BASES AND SALTS	MORE ABOUT SALTS	Chemicals from common salt Are the crystals of salts really dry?
	METALS AND NON-METALS	PHYSICAL PROPERTIES CHEMICAL PROPERTIES OF METALS	What happens when metals are burnt in air? What happens when metals react with water?
	PERIODIC TEST - 2 (25/07/2025- 04/08/2025) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS CHAPTER 2- ACIDS,BASES AND SALTS		

AUGUST	METALS AND NON-METALS	CHEMICAL PROPERTIES OF METALS - contd.. HOW DO METALS AND NON-METALS REACT? OCCURRENCE OF METALS CORROSION	What happens when metals react with acids? How do metals react with solutions of other metal salts? The reactivity series Properties of ionic compounds Extraction of metals Enrichment of ores Extracting metals low in the activity series Extracting metals middle in the activity series Extracting metals top in the activity series Refining of metals Prevention of corrosion
SEPTEMBER	CARBON AND ITS COMPOUNDS	BONDING IN CARBON- THE COVALENT BOND VERSATILE NATURE OF CARBON CHEMICAL PROPERTIES OF CARBON COMPOUNDS	Saturated and unsaturated carbon compounds Chains, branches and rings Will you be my friend? Homologous series. Nomenclature of carbon compounds. Combustion Oxidation Addition reaction Substitution reaction
OCTOBER	CARBON AND ITS COMPOUNDS	SOME IMPORTANT CARBON COMPOUNDS- ETHANOL AND ETHANO	Properties of ethanol Properties of ethanoic acid
OCTOBER	REVISION PERIODIC TEST -3 (08/10/2025- 18/10/2025 CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS CHAPTER 2- ACIDS,BASES AND SALTS CHAPTER 3- METALS AND NON-METALS CHAPTER 4- CARBON AND ITS COMPOUNDS(INCLUDING CHEMICAL PROPERTIES OF CARBON COMPOUNDS)		

NOVEMBER	CARBON AND ITS COMPOUNDS	SOAPS AND DETERGENTS	Cleansing action of soaps and detergents
NOVEMBER	REVISION FIRST MODEL EXAMINATION - (25/11/2025 - 12/12/2025)		
DECEMBER	FIRST MODEL EXAMINATION - (25/11/2025 - 12/12/2025)		
JANUARY	SECOND MODEL EXAMINATION - (01/01/2026 -14/01/2026)		

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	1.2.5 Oxidation and Reduction		1.Predict the reaction as Oxidation or Reduction based on the addition/ removal of oxygen/ hydrogen/ electrons to the reactants to form products. 2.Cites examples for oxidation and reduction. 3.Applies the knowledge in day -to- day life.	EVALUATION-(Extended learning)DOK4	
1.3 HAVE YOU OBSERVED THE EFFECTS OF OXIDATION REACTIONS IN EVERYDAY LIFE?	1.3.1 Corrosion	Relate chemical reactions to everyday life, such as understanding corrosion, respiration, digestion, and the role of chemical reactions in various industrial processes.	Applies scientific concepts in daily life by observing the colour change in iron, copper and silver articles over time in order to outline the effects of corrosion in our surroundings	APPLICATION(Skill/ Concept)DOK3	
	1.3.2 Rancidity		Applies scientific concepts in daily life by detecting the changes in smell, colour, taste of food items overtime, in order to explain effects of oxidation on food items		

CHEMICAL REACTIONS AND EQUATIONS								
GROUP ACTIVITY - HPC								
	Types of chemical reactions.							
1	BURNING OF MAGNESIUM RIBBON							
	Clean a magnesium ribbon about 2 cm long by rubbing it with sand paper. Hold it with a pair of tongs. Burn it using a spirit lamp or burner and collect the ash so formed. in a watch glass . .Burn the magnesium ribbon keeping it as far as possible from your eyes							
2	DISPLACEMENT REACTION							
	Take three iron nails and clean them by rubbing with sand paper. Take two test tubes marked as (A) and (B). In each test tube, take about 10 mL copper sulphate solution. Tie two iron nails with a thread and immerse them carefully in the copper sulphate solution in test tube B for about 20 minutes Keep one iron nail aside for comparison and after 20 minutes, take out the iron nails from the copper sulphate solution. Compare the intensity of the blue colour of copper sulphate solutions in test tubes (A) and (B) Also, compare the colour of the iron nails dipped in the copper sulphate solution with the one kept aside							
3	DOUBLE DISPLACEMENT REACTION- REACTION OF BARIUM CHLORIDE AND SODIUM SULPHATE							
	Take about 3 mL of sodium sulphate solution in a test tube. In another test tube, take about 3 mL of barium chloride solution. Mix the two solutions.Record your observations.							
	Questions							

	AWARENESS	
	BEGINNER	1.Name the different types of reactions
	PROFICIENT	2. Why is Magnesium ribbon cleaned before burning?
	ADVANCED	3.If Magnesium ribbon is placed in an atmosphere of nitrogen , it forms a compound X.
	SENSITIVITY	
	BEGINNER	4.Why is it important to understand chemical reactions in every day life like cooking o
	PROFICIENT	5. How do combustion reaction affect air quality and contribute to global warming?
	ADVANCED	6. How can understanding chemical reactions help prevent accidents at home or in the
	CREATIVITY	
	BEGINNER	7. Design an experiment to show a chemical reaction using only kitchen ingredients?
	PROFICIENT	8.Write a short story where four friends represents different types of chemical reactions
	ADVANCED	9.Design a card game where each card represents an element ,compound or reaction type. Explain the rules based on how reactions actually occur?

BHARATIYA VIDYA BHAVAN ,KOCHI							
SCHEME OF WORK FOR THE YEAR 2025-26							
CLASS	X						
SUBJECT	CHEMISTRY						
MONTH	JUNE						
LESSON	ACIDS,BASES AND SALTS						
TOPIC	ACIDS,BASES AND SALTS						
CURRICULAR GOALS	Identify substances as acidic, basic, or neutral based on their characteristics and pH. Understand the role of indicators (e.g., litmus, phenolphthalein, methyl orange) in identifying acids and bases. Discuss the importance of pH in daily life, agriculture, and the environment Describe and write chemical equations for: Reaction of acids with metals (producing hydrogen gas) Reaction of acids with metal carbonates and bicarbonates (producing CO₂) Reaction of acids with bases (neutralization)						
COMPETENCIES	C-1.2 Investigates the nature and properties of chemical substances (acids and bases) C-5.3 Applies scientific principles to explain phenomena of corrosion and rancidity. C-7.2 Designs and plan experiments for scientific inquiry (formulates hypothesis, makes predictions, identifies variables, accurately uses scientific instruments, represents data – to draws inferences based on data and understanding of chemical reactions.						
SUB-TOPIC	CONCEPTS	GENERAL COMPETENCIES	SPECIFIC COMPETENCY	LEARNING OUTCOMES	COGNITIVE LEVELS (as per DOK)	ACTIVITY/ACTIVITIES	ASSESSMENT FOR LEARNING
2.1 UNDERSTANDING CHEMICAL PROPERTIES OF ACIDS AND BASES	2.1.1 Acids and bases in the laboratory		Understand the characteristics of strong and weak acids and bases	1. Classifies materials, based on characteristics acids and bases on the basis of their chemical properties 2. Plans and conducts experiments to a) observe the action of given substances with various indicators, in order to categorize them as acids or bases	1. ANALYSIS (Strategic thinking)DOK4 2. SYNTHESIS(Strategic Thinking)DOK4	Indicator test with acids and bases (LAB)	
	2.1.2 How do acids and bases react with metals?			Detect the formation of hydrogen gas when a metal reacts with an acid or a base, in order to confirm the presence of an acid/ base given an unknown compound.	SYNTHESIS(Strategic Thinking)DOK4	Reaction of Zinc with Sulphuric acid and NaOH (LAB)	
	2.1.3 How do metal carbonates and metal hydrogen carbonates react with acids?			Plans and conducts experiments to detect the formation of hydrogen gas when a metal reacts with an acid or a base, in order to confirm the presence of an acid/ base given an unknown	SYNTHESIS(Strategic Thinking)DOK4	Reaction of Metal Carbonates and Metal Hydrogencarbonateswith acids (LAB)	
	2.1.4 Reaction of metallic oxide with acids						

	2.1.5 Reaction of non-metallic oxide with bases	1. Collaboration 2. Critical Thinking 3. Problem solving 4. Scientific Enquiry	Write and balance chemical equations for reactions involving acids, bases, and salts.	compound . Analyse the reaction to predict the nature of reaction taking place between an acid and a base (alkalis, metal oxides) using an indicator		
2.2 WHAT DO ALL ACIDS AND ALL BASES HAVE IN COMMON?	2.2.1 What Happens to an Acid or a Base in a Water Solution?			Predicts the behaviour of acids and bases in different situations and in developing strategies for controlling their effects.	ANALYSIS(Strategic thinking)DOK4	
			2.3 HOW STRONG ARE ACID OR BASE SOLUTIONS?			2.3.1 Importance of pH in Everyday Life yday Life.
PERIODIC TEST -1 (09/06/2025 -16/06/25) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS						

ACIDS,BASES AND SALTS								
HPC- INDIVIDUAL ACTIVITY								
Finding the pH of the following samples by using pH paper/universal indicator:								
(i) Dilute Hydrochloric Acid								
(i) Dilute Sulphuric Acid								
(iii) Dilute Ethanoic Acid solution								
(iv) Lemon juice								
(v) Water								
(vi) Dilute Hydrogen Carbonate solution								
PROCEDURE								
Test the pH of the given sample solutions using Universal indicator and record the observation in the form of a table.								
ASSESSMENT QUESTIONS								
AWARENESS								
BEGINNER	1.What is pH?							
PROFICIENT	2.Mention the colour change of Universal indicator paper with NaOH, CH ₃ COOH?							
ADVANCED	3.What happens to the pH of rain water if it becomes acidic due to pollution?							
SENSITIVITY								
BEGINNER	1. Why is it important to check the soil before planting crops?							

PROFICIENT	2.How can acidic water affect aquatic life and plants?							
ADVANCED	3. Imagine you are incharge of school garden. How would you make sure that soil is healthy using pH testing?							
CREATIVITY								
BEGINNER	1.If you had to explain pH to a younger student using only a colour wheel , how would you do							
PROFICIENT	2. Create a comic strip or short story where pH levels are characters , explaining their roles in							
ADVANCED	3Design a simple pH testing kit using natural indicators. Describe how it works.							

BHARATIYA VIDYA BHAVAN ,KOCHI									
SCHEME OF WORK FOR THE YEAR 2025-'26									
CLASS	X								
SUBJECT	CHEMISTRY								
MONTH	JULY								
LESSON	ACIDS,BASES AND SALTS METALS AND NON-METALS								
TOPIC	MORE ABOUT SALTS PHYSICAL PROPERTIES CHEMICAL PROPERTIES OF METALS								
CURRICULAR GOALS	Understand the preparation, properties, and uses of salts, such as: Sodium chloride (NaCl), Washing soda (Na_2CO_3), Baking soda (NaHCO_3), Plaster of Paris ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$) Differentiate between metals and non-metals based on physical and chemical properties Recognize the physical properties of metals and non-metals, and identify exceptions to general properties								
COMPETENCIES	C-7.2 Designs and plan experiments for scientific inquiry (formulates hypotheses, makes predictions, identifies variables, accurately uses scientific instruments, represents data – to draws inferences based on data and understanding of chemical reactions. C-1.2 Investigates the nature and properties of chemical substances (acids and bases) C-7.2 Designs and plan experiments for scientific inquiry (formulates hypothesis, makes predictions, identifies variables, accurately uses scientific instruments, represents data – to draws inferences based on data and understanding of chemical reactions. C-5.3 Applies scientific principles to explain the importance of pH in Everyday Life.								
SUB-TOPIC	CONCEPTS	GENERAL COMPETENCIES	SPECIFIC COMPETENCY	LEARNING OUTCOMES	COGNITIVE LEVELS (as per DOK)	ACTIVITY/ACTIVITIES	ASSESSMENT FOR LEARNING		
2.4 MORE ABOUT SALTS	2.4.1 Family of Salts	1. Collaboration 2. Critical Thinking 3. Problem solving 4. Scientific Enquiry	Learn various methods of preparing salts, such as neutralization, precipitation, and reaction of acids with metals.	Identifies the acid and base present in a given salt	SYNTHESIS(Strategic Thinking) DOK 4	Write the chemical formulae of the salts given below. Potassium sulphate, sodium sulphate, calcium sulphate, magnesium sulphate, copper sulphate, sodium chloride, sodium nitrate, sodium carbonate and ammonium chloride. Identify the acids and bases from which the			
	2.4.2 pH of Salts			Explain the effect of pH change in animals, plants and environment in order to learn suitable pH range for survival		Finding the pH samples by using pH paper/universal indicator (HPC -INDIVIDUAL)			
	2.4.3 Chemicals from Common Salt- Sodium hydroxide, Bleaching powder, Baking soda, Washing soda, Plaster of Paris,			Explains the process of formation of Baking soda, Washing soda, Plaster of Paris in order to describe its manufacture using common salt.	ANALYSIS(Strategic thinking) DOK 3				

	2.4.4 Are the crystals of salts really dry?			" 1.Defines water of crystallisation. 2.Predicts the reason for the colour change when hydrated Copper sulphate is heated. "	Activity on water of crystallisation using CuSO4 crystals					
TOPIC	METALS AND NON-METALS									
3.1 PHYSICAL PROPERTIES	3.1.1 Metals	1.Analytical Thinking 2.Scientific Literacy	Describe and compare the physical properties of metals and non-metals	1. Classifies metals and non-metals on the basis of the physical properties 2. Plans and conducts investigations and experiments to tests the conductivity of various solutions	1.COMPREHENSION(Skill/ Concept) DOK2 2.SYNTHESIS(Strategic Thinking)DOK 4					
	3.1.2 Non-metals									
PERIODIC TEST - 2 (25/07/2025- 04/08/2025)										
CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS										
CHAPTER 2- ACIDS,BASES AND SALTS										

BHARATIYA VIDYA BHAVAN ,KOCHI							
SCHEME OF WORK FOR THE YEAR 2025-'26							
CLASS	X						
SUBJECT	CHEMISTRY						
MONTH	AUGUST						
LESSON	METALS AND NON-METALS						
TOPIC	METALS AND NON-METALS						
CURRICULAR GOALS	Explain and observe reactions of metals with Air (oxygen) – formation of metal oxides Water – formation of hydroxides and hydrogen gas Acids – production of salts and hydrogen gas Compare chemical reactivity of metals and non-metals. Predict displacement reactions based on the position in the reactivity series. Conduct and interpret simple displacement reactions in the lab (e.g., zinc displacing copper from copper sulphate).						
COMPETENCIES	C-1.3 -Describes and explains chemical reactions that occur through metallurgical processes. C-7.2 Designs and implements a plan for scientific inquiry and understanding of scientific concepts of metallurgy. C-5.1 Analyses and communicates views on the impact of corrosion on human life.						
SUB-TOPIC	CONCEPTS	GENERAL COMPETENCIES	SPECIFIC COMPETENCY	LEARNING OUTCOMES	COGNITIVE LEVELS (as per DOK)	ACTIVITY/ACTIVITIES	ASSESSMENT FOR LEARNING
3.2 CHEMICAL PROPERTIES OF METALS- contd...	3.2.3 What happens when Metals react with Acids?	1. Scientific Literacy 2. Critical Thinking 3. Problem-Solving	Understand and explain the chemical reactions of metals and non-metals	Predicts the products when metals & non-metals react with oxygen, water, dilute acids, with solutions of other metal salts in order to write a balanced chemical	EVALUATION(Extended learning) DOK4	Reaction of Zinc metal with dilute HCl	
	3.2.4 How do Metals react with Solutions of other Metal Salts? 3.2.5 The Reactivity Series 3.3 How do metals and non-metals react ?			Identify the product formed when a metal reacts with a metal salt, in order to list the metals in order of their reactivity. Explains the displacement of metals from their salt solutions on the basis of reactivity series Draws electron dot structure of atoms and molecules in order to Explains the formation & properties of ionic	KNOWLEDGE(Recall and Reproduce) DOK1	Observing the action of Zn, Fe, Cu and Al metals on different salt solutions (LAB)	
OCCURRENCE OF METALS	Extraction of metals			Defines the various terms involved in metallurgy.	KNOWLEDGE(Recall and Reproduce) DOK1		
	Enrichment of ores			Describes various steps involved in metallurgy			

	Extracting metals low in the activity series	Explain the extraction of metals from their ores		COMPREHENSION(Skill/Concept) DOK2	Concept map on different steps involved in Extraction.	
	Extracting metals middle in the activity series					
	Extracting metals top in the activity series					
	Refining of metals		1. Designs a flow chart showing various steps involved in metallurgy. 2. Applies the knowledge in daily life	SYNTHESIS(Strategic Thinking) DOK4		
CORROSION	Prevention of corrosion	Define corrosion and discuss methods to prevent corrosion	Analyse the conditions to prevent corrosion and applies the knowledge in daily life	SYNTHESIS(Strategic Thinking) DOK4	Activity to check out the conditions under which iron rusts(Act-3.14)	

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SCHEME OF WORK FOR THE YEAR2025-'26							
CLASS	X						
SUBJECT	CHEMISTRY						
MONTH	SEPTEMBER						
LESSON	CARBON AND ITS COMPOUNDS						
TOPIC	CARBON AND ITS COMPOUNDS						
CURRICULAR GOALS	Understanding the Uniqueness of Carbon Identify and classify hydrocarbons and Recognize functional groups (e.g., –OH, –COOH, –CHO, –CO–) and their influence on chemical properties. Describe key reactions: Combustion (complete and incomplete) Oxidation (e.g., ethanol to ethanoic acid) Addition reactions (in alkenes and alkynes) Substitution reactions (in alkanes) and write balanced chemical equations						
COMPETENCIES	C-1.1 -Describes and explains how carbon compounds are formed. C-2.5-Defines Saturated,unsaturated hydrocarbons, catenation, homologous series in scientific terms, and represents the Saturated,unsaturated hydrocarbons using bond lines C-5.3 Applies scientific principles to explain the importance of pH in Everyday Life						
SUB-TOPIC	CONCEPTS	GENERAL COMPETENCIES	SPECIFIC COMPETENCY	LEARNING OUTCOMES	COGNITIVE LEVELS (as per DOK)	ACTIVITY/ACTIVITIES	ASSESSMENT FOR LEARNING
BONDING IN CARBON- THE COVALENT BOND	Covalent bond		Understand the formation of covalent bond	Draw structures of carbon compounds and show types of bonds (single/ double/ triple)	UNDERSTAND(Skill/ Concept)DOK1		
4.2 VERSATILE NATURE OF CARBON	4.2.1 Saturated and Unsaturated Carbon Compounds		Understanding the Versatility of Carbon Distinguish between saturated and unsaturated hydrocarbons. Identify and name straight-chain and branched-chain hydrocarbons.	1.Draw structures of carbon compounds in order to classify them as saturated or unsaturated	APPLICATION(Skill/ Concept)DOK -2	Ball and stick model to introduce saturated and unsaturated hydrocarbons	
	4.2.2 Chains, Branches and Rings			2.Draw structures of carbon compounds and show types of bonds (single/ double/ triple) in order to classify them as alkanes/ alkenes/ alkynes			
	4.2.3 Will you be my Friend?			1. Defines catenation 2. Explains why carbon forms a large number of compounds.	1.KNOWLEDGE(Recall and Reproduce) DOK1 2.ANALYSIS(Strategic		

4.3 CHEMICAL PROPERTIES OF CARBON COMPOUNDS	4.2.4 Homologous Series	1. Collaboration 2. Critical Thinking 3. Problem solving 4. Scientific Enquiry		Classify carbon compounds in homologous series in order to predict their properties	APPLICATION(Skill/ Concept) DOK -2	
	4.2.5 Nomenclature of Carbon Compounds		Apply IUPAC rules to name organic compounds systematically, including those with functional groups and isomerism	Identify the functional group, type of bonding, number of C atoms present in a carbon compound, in order to correctly name them	KNOWLEDGE(Recall and Reproduce) DOK1	
	4.3.1 Combustion		Write and balance chemical equations for combustion, oxidation, and substitution reactions involving carbon compounds	Explains the chemical properties of carbon compounds (like combustion, oxidation, addition & substitution) along with balanced chemical reaction	COMPREHENSION(Skill/ Concept) DOK 2	Card game - Prepare small cards with reactants on one card and products on the other card. One student will pick a card and read out the reactants and the other who has the answer to this card will step forward to form a pair. They then present in the class.
	4.3.2 Oxidation			1. Describes how carbon compounds react with hydrogen in the presence of nickel catalyst, in order to write a balanced chemical reaction.		
	4.3.3 Addition Reaction			2. Explains how carbon compounds react with chlorine in the presence of sunlight, in order to write a balanced chemical reaction.		
	4.3.4 Substitution Reaction					

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SCHEME OF WORK FOR THE YEAR 2025-'26							
CLASS	X						
SUBJECT	CHEMISTRY						
MONTH	OCTOBER						
LESSON	CARBON AND ITS COMPOUNDS						
TOPIC	ETHANOL AND ETHANOIC ACID						
CURRICULAR GOALS	Understand the physical and chemical properties of ethanol and ethanoic acid. Describe their common uses in daily life and industry. Perform experiments such as: Reaction of ethanol with sodium Esterification reaction between alcohol and acid						
COMPETENCIES	"C-1.2 Investigates the nature and properties of chemical substances like ethanol and ethanoic acid.						
SUB-TOPIC	CONCEPTS	GENERAL COMPETENCIES	SPECIFIC COMPETENCY	LEARNING OUTCOMES	COGNITIVE LEVELS (as per Blooms Taxonomy)	ACTIVITY/ACTIVITIES	ASSESSMENT FOR LEARNING
SOME IMPORTANT CARBON COMPOUNDS- ETHANOL AND ETHANOIC ACID	Properties of ethanol	1.Collaboration 2.Analytical Thinking	Understand the physical and chemical properties of ethanol, ethanoic acid, and their reactions with other substances and discuss the uses of these compounds in daily life	Differentiate between ethanol and ethanoic acid on the basis of their properties.	ANALYSIS(Strategic thinking) DOK4	Esterfication reaction	
	Properties of ethanoic acid			Predict the chemical equations of the reactions of ethanol and ethanoic acid	EVALUATION(Extended learning) DOK4	Study of the following properties of acetic acid (ethanoic acid): i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate (LAB)	
	REVISION PERIODIC TEST -3 (08/10/2025- 18/10/2025 CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS CHAPTER 2- ACIDS,BASES AND SALTS CHAPTER 3- METALS AND NON-METALS CHAPTER 4- CARBON AND ITS COMPOUNDS(INCLUDING CHEMICALPROPERTIES OF CARBON COMPOUNDS)						

	DECEMBER	FIRST MODEL EXAMINATION - (25/11/2025 - 12/12/2025)		
	JANUARY	SECOND MODEL EXAMINATION - (01/01/2026 -14/01/2026)		
	SL. NO	NAME OF THE SCHOOL	NAME OF THE TEACHER	SIGNATURE
	1	BHAVAN'S VIDYA MANDIR,ELAMAKKARA	BINDU T M	
	2	BHAVAN'S VIDYA MANDIR,EROOR	ROJO THOMAS	
	3	BHAVAN'S VIDYA MANDIR,GIRINAGAR	PRIYA NAIR	
	4	BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD	SUJAYA A	
	5	BHAVAN'S VARUNA VIDYALAYA, THRIKKAKARA	MEENA NAIR T N	
	6	BHAVAN'S MUNSHI VIDYASHRAM, THIRUVAMKULAM	JUBY T J	
	7	BHAVAN'S NEWSPRINT VIDYALAYA, VELLOOR	REMYA S NAIR	

BHARATIYA VIDYA BHAVAN ,KOCHI		
YEAR PLAN FOR THE ACADEMIC YEAR 2025-2026		
STD X BIOLOGY		
MONTH	TOPIC	
March -April	Chapter 5- Life Processes	
June	Chapter 5- Life Processes	
PERIODIC TEST I (9 June- 16 June) *Chapter 5 Life Processes-Nutrition, Respiration (Upto fig. 5.8-Breakdown of glucose by various pathways included)		
July	Chapter 6- Control and Coordination	
PERIODIC TEST II (25 July - 4 August) *Chapter 5 Life Processes-Full *Chapter 6 Control and co ordination (6.1 Animals -Nervous system - 6.1.1, 6.1.2, 6.1.3, 6.1.4)		
August	Chapter7- How do organisms reproduce?	
	PORTFOLIO- Portfolio that includes classwork and other sample of student's work.	
September	Chapter7- How do organisms reproduce? (Cont...)	
	Chapter8- Heredity	
October	Chapter8- Heredity (Cont...)	
	Chapter 13- Our Environment	
PRE-MODEL - PERIODIC TEST III (8 October - 18 October) *Chapter 5 Life Processes *Chapter 6 Control and coordination *Chapter 7 How do Organisms Reproduce?		
November/ December	Revision	
	FIRST MODEL EXAMINATION (25 November - 12 December) Full portions	
January	SECOND MODEL EXAMINATION (1 January - 14 January) Full portions	

BHARATIYA VIDYA BHAVAN ,KOCHI			
YEAR PLAN FOR THE ACADEMIC YEAR 2025-26			
STD: X - SUBJECT: SOCIAL SCIENCE (087)			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH / APRIL	G- 1. Resources and Development	Concept, Types of resources, Development of resources, Resource Planning, Resource Planning in India, Land Resources, Land Utilisation, Land Utilization in India, Land Degradation and Conservation Measures, Soil as a Resource, Classification of Soils, Soil Erosion and Soil Conservation.	Meaning of Resources Utilization and Conservation of resources - land and soils , Sustainable Development of the above resources
	E- 1. Development	What Development Promises, Different People, Different Goals. Income and Other Goals, National Development, How to compare different Countries or States? Income and Other Criteria, Public Facilities, Sustainability of Development.	Developmental goal differs from person to person. Differentiate different criterion (Per Capita Income, Health, Education) of measuring development. For development people look at a mix of goals. Importance of sustainability of development - Ground water, crude oil.
	P- 1. Power - sharing	Belgium and Sri Lanka, Majoritarianism in Sri Lanka Accommodation in Belgium, Why power sharing is desirable? Forms of power-sharing.	Importance of power sharing. Ethnic composition of Belgium and Sri Lanka. Majoritarianism practiced in Sri Lanka and accommodative method followed in Belgium. Forms of power sharing.
	H-1. The Rise of Nationalism in Europe	The Rise of Nationalism in Europe Introduction, The	Trace the emergence of nationalism in Europe. Understand the nature of nation

		French Revolution and the idea of the Nation, The Making of Nationalism in Europe, The Aristocracy and the New Middle Class, What did Liberal Nationalism Stand for? A New Conservatism after 1815, The Revolutionaries, The Age of Revolutions:1830-1848, The Romantic Imagination and National Feeling, Hunger, Hardship and Popular Revolt, 1848: The Revolution of the Liberals.	states developed in 18th Century Role of romanticism and importance of national symbols and icons and unification of Italy, Germany and Britain. Balkans and the first world war.
JUNE	P-2 Federalism	What is Federalism? What make India a Federal Country? How is Federalism practiced? Decentralization in India	Distinguish between unitary and federal government. Key features of federalism and division of legislative powers in India. Rationale of decentralization.
	G-2 Forest and Wildlife	Conservation of forest and wildlife in India Types and distribution of forests and wildlife resources Community and Conservation	Various methods of conservation of forest and wildlife. Distribution of different kinds of flora and fauna. The role of community in the conservation of forest and wildlife.
	E- Sectors of the Indian Economy	Sectors of Economic Activities Comparing the three sectors Primary, Secondary and Tertiary Sectors in India Division of	Comparison of different sectors of the Indian economy. Significance of the service sector in the Indian economy. Differentiate between organized, unorganized, public and private.

		sectors as organized and unorganized Sectors in terms of ownership: Public and Private Sectors	
JUNE	E-Consumer Rights	Project as per CBSE	
JULY	H- Nationalism in India	The First World War, Khilafat and Non - Cooperation Differing Strands within the Movement Towards Civil Disobedience The Sense of Collective Belonging	Socio-economic conditions of India during the first world war Differentiate Civil Disobedience and Non-Co-operation movement. Factors responsible for the emergence of nationalism.
	H- The Age of Industrialization	(Below mentioned topics are activity oriented - Formative Assessment Only) Before the Industrial Revolution. Hand Labor and Steam Power. Industrialization in the Colonies Factories come up The Peculiarities' of Industrial Growth (Only the topic mentioned below is for P2 evaluation) Markets for Goods	Important features of Proto -Industrialization Inventions of new machines and the coming up of new factories Industrialization in India and early entrepreneurs of India. Various techniques applied for marketing goods."
	G- Water Resources	Water Scarcity and the need for Water Conservation and management. Multi-Purpose River Projects and Integrated Water Resources	Reasons responsible for water scarcity. Suggestions for water conservation. Role of Multi -purpose River Projects. Various methods for rain water harvesting.

		Management Rainwater Harvesting	
AUGUST	E- Money and Credit	"Role of money in an economy. Money as a medium of exchange. Modern forms of money , loan activities of banks two different credit situations Terms of credit, Formal sector credit in India. Self Help groups for the poor."	"Money as a medium of exchange Credit - Positive and negative credit situations. Loan activities of formal and informal sectors. The role of Self-help groups for providing credit to the poor."
	P-Gender, Religion and Caste:	Gender and Politics - Public/Private division, Women's political representation. Religion, Communalism and Politics – Communalism, Secular State Caste and Politics - Caste inequalities, Caste in politics, Politics in caste.	"Social identities and nature of gender, religion, and caste in India. Sexual division of labour. Discrimination faced by women after independence. The role of communalism in politics. Features of secular state. Role of caste and politics in a democracy."
	G-Agriculture	Types of Farming – Primitive Subsistence, Intensive Subsistence, Commercial Cropping Pattern – Major Crops, Food Crops other than Grains. Non Food Crops Technological and Institutional Reforms. Bhoodaan - Gramdaan.	"Role played by agriculture in our economy. Major crops and its distribution. Challenges faced by the farming community in India. Technical and institutional reforms."
	P-Political Parties:	Why do we need political parties, how many parties should we have.National	Necessity of political parties.Difference between a national and state party.Challenges and the

		political parties, state political parties.	suggestionsto reform the political parties.
SEPTEMBER	P- Outcomes of Democracy	How do we assess democracy's outcomes?Accountabl e, responsive and legitimate government. Economic growth and development.Reductio n of inequality and poverty. Accommodation of social diversity.Dignity and freedom of the citizens	Socio- political and economic outcomes of a democracy.Factors that determines the economic development of a nation. Democracy is not a solution for all the problems faced by a nation.Democray accomodates social diversity and ensures the dignity and freedom of the individuals.
SEPTEMBER	H- Print ,Culture and the 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.	Evolution of print in Europe.Role and impact of print revolution. Link between print culture and circulation of ideas.
	G-Minerals and Energy Resources	What is a mineral? Mode of occurrence of Minerals.Where are these minerals found?Ferrous Minerals, Non-Ferrous Minerals.NonMetallic Minerals. Conservation of Minerals. Energy Resources - Conventional Sources of Energy,Non-Conventi onal Sources of Energy. Conservation of Energy Resources.	Occurance and classification of minerals.Difference between conventional and non-conventional sources of energy. Conservation - Sustainable Development
OCTOBER	G-Manufacturing industries	Importance of Manufacturing - Agro based Industry Mineral based Industries	Manufacutring sector is considered as the backbone of the country's economic development.Classification of industries. Industrial pollution andmethods of conservation.

		Industrial Pollution and Environmental Degradation, Control of Environmental Degradation.	
OCTOBER	H-The Making of a Global World	(To be evaluated in the Board Examination)The Making of a Global World Subtopics:1 to 1.3 Pre Modern World to Conquest, Disease and Trade) Interdisciplinary project as part of multiple assessments (Internally assessed for 5 marks Sub topics 2 to 4.4 The nineteenth century (1815-1914) to end of Bretton Woods & the beginning of “Globalisation.” Interdisciplinary part of the chapter is only for formative assessment.	The Pre- modern world The Nineteenth Century {1915-1914} The Inter war Economy. Rebuilding a World Economy: The Post War Era.
OCTOBER	G- LIFELINES OF NATIONAL ECONOMY.	MAJOR AIRPORTS AND SEAPORTS .	MAP WORK ONLY AS PER CBSE
OCTOBER	E - Globalization and the Indian Economy:	Sub topics: Interdisciplinary project - with chapter 3 of History: “The making of a Global World”and chapter 7 of Geography: “Lifelines of National Economy”Refer annexure IV of CBSE SOCIAL SCIENCE SYLLABUS 2023-24. Production across the countries Chinese toys in India World Trade Organisation The Struggle For A Fair Globalisation	Definition and factors that enabled globalisation.

BVM Girinagar

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
ARTIFICIAL INTELLIGENCE
YEAR PLAN FOR THE ACADEMIC YEAR 2025-26

CLASS: X

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	PART A: Employability skills - Communication skills PART B: Subject Specific Skills - Unit 1: Revisiting AI Project Cycle & Ethical Frameworks for AI Unit 7: Advance Python - Basics - variables, data types, operators, and control structures (To be assessed through Practicals)	1.1 AI Project Cycle 1.2 Introduction to AI Domains 1.3 Ethical Frameworks of AI • Communication cycle and feedback • Methods of communication • Barriers to effective communication • 7 Cs of effective communication	• The overview of the six stages of the AI Project Cycle • The three domains of AI and their applications • Frameworks • Ethical frameworks • Need of Ethical Frameworks for AI • Factors that influence our decision-making • Types of Ethical Frameworks • Bioethics and its principles • A use case of Bioethics • Methods of Communication • Communication Cycle and Importance of • Feedback • Barriers to Effective Communication
APRIL	PART B: Subject Specific Skills - Unit 2: Advanced Concepts of Modeling in AI Unit 7: Advance Python - Lists (To be assessed through Practicals)	• Revisiting AI, ML, DL • Machine Learning (ML) • Examples of Machine Learning (ML) • Deep Learning (DL) • Examples of Deep Learning (DL) • Data, Labeled data, Unlabeled Data, training data set, testing data set	• Revisiting AI, ML, DL • Machine Learning (ML) • Examples of Machine Learning (ML) (i) Object Classification (ii) Anomaly Detection • Deep Learning (DL) • Examples of Deep Learning (DL) (i) Object Identification (ii) Digit Recognition • Common terminologies used with data • Python Basics -Variables in Python, print(), input(), conditional statements

JUNE	PART A: PART A: Employability skills - Self management skills PART B: Subject Specific Skills - Unit 2: Advanced Concepts of Modeling in AI Unit 7: Advance Python - Lists (To be assessed through Practicals)	Modelling Neural Networks Importance of ModelEvaluation SELF MANAGEMENT • meaning and importance of stress management • stress management techniques • Introduction to self-awareness • describe the meaning of self-motivation and self -regulation • Self regulation - Goal setting, Time management	• Types of AI models –Rule based, Learning based • Categories of Machine learning based models – • Supervised, Unsupervised and Reinforcement learning models • Sub-categories of • Supervised Learning Model – Classification, Regression • Sub-categories of Unsupervised Learning Model – Clustering, Association • What is neural network? • How does AI make a decision? • What is evaluation? • Why do we need a model evaluation? Strength and weakness analysis • Difference between abilities and interests • Introduction to stress management • Importance of stress mangement and stress management techniques • Ability to work independently Types of motivation • Qualities of self-motivated people • Goals and setting SMART goals
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JULY	PART B: Subject Specific Skills - Evaluating Models PART B: Subject Specific Skills - STATISTICAL DATA (To be assessed through Practicals)	• Splitting the training set data for Evaluation • What is Accuracy and Error? • Evaluation metrics for classification • Ethical concerns around model evaluation	• What is Train-test split? • Why do we need to do Train-test split? • Accuracy • Error • What is Classification? • Classification metrics • Confusion matrix • Accuracy from Confusion matrix • Precision from Confusion matrix • Recall from Confusion matrix • F1 Score • Bias • Transparency • Accountability
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AUGUST	PART B: Subject Specific Skills - Unit 5: Computer Vision Part A: Employability Skills - Entrepreneurship ,ICT	Introduction to Computer Vision Concepts of Computer Vision Applications of CV Computer Vision Tasks ENTREPRENEURSHIP • Entrepreneurship and society • Qualities and functions of an entrepreneur • Myths about entrepreneurship • Entrepreneurship as a career option ICT • Basic Computer Organisation and operations. • Files and folders	• CV open-source tool • A Quick overview of computervision • Computer Vision and ArtificialIntelligence • Computer Vision v/s Image Processing • Facial Recognition • Face Filters • Google Search by Image • Computer Vision in retail • Self-Driving cars • Medical Imaging • Google Translate App • Classification • Classification + Localisation • Object Detection • Image Segmentation • Basics of Images and Pixels • Resolution & Pixel Value • Grayscale & RGB Images To be assessed through practicals No-Code AI tools Image Features Convolution Convolution NeuralNetwork • Qualities of an entrepreneur • Functions of an entrepreneur • Misconceptions about entrepreneurship • Entrepreneurship as a life choice. • Basic Computer hardware and software • Starting up and shutting down • Using the keyboard - different types of keys • Using the mouse - different
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SEPTEMBER	PART B: Subject Specific Skills - Unit 6 : NATURAL LANGUAGE PROCESSING PART A : Employability Skills - ICT	• Care and Maintenance of Computer • Introduction to NLP • Applications of NLP • Stages of NLP • Chatbots • Concepts of NLP : Text Processing	• Keeping a device clean • Backup your data • Scanning and cleaning viruses • Computer security and privacy • Features of natural language • Computer language • Importance of NLP • Voice Assistants • Autogenerated captions • Language translation • Sentiment analysis • Text classification • Keyword extraction - Lexical Analysis • Syntactic Analysis • Semantic Analysis • Discourse Integration • Pragmatic Analysis • Script Bot V/s Smart Bot • Text Normalisation • Bag of Words
OCTOBER	PART A : EMPLOYABILITY- GREEN SKILLS	• Sustainable Development • Our Role in Sustainable Development	• Problems related to Sustainable Development • Sustainable Development Goals

BHARATIYA VIDYA BHAVAN ,KOCHI KENDRA COMPUTER APPLICATIONS YEAR PLAN FOR THE ACADEMIC YEAR 2025-26 CLASS: X			
MONTH	TOPIC	SUB-TOPIC	CONCEPTS
APRIL	HTML - 1	Introduction to web page designing using HTML, HTML tags:	Introduction to web page designing using HTML:: create and save an HTML document, access a web page using a web browser.
JUNE	Internet Basics HTML 2	Introduction to Internet Internet protocols Super script, Sub script, image, table, links PERIODIC TEST – I (09/06/2025 - 16/06/2025)	Internet: WWW, Web servers, web clients, web sites, web pages, web browsers, blogs, newsgroups, HTML, Web address, e-mail address, downloading and uploading files from a remote site, Internet protocols: TCP/IP,SMTP,POP3, HTTP, HTTPS. sup (super script), sub(subscript), Insert images: img (attributes: src, width, height, alt), Creating table using the tags: table, tr, th, td Attributes - rowspan, colspan, border, cell spacing, cell padding, Linking - Internal linking, External Linking Creating links using anchor element (attributes: href, mailto, target)
JULY	INTERNET SERVICES AND MOBILE TECHNOLOGIES, HTML-III	Internet protocols, Services available on the Internet, Web Services, Mobile Technologies, Audio, Video, HTML Forms PERIODIC TEST – II (25/07/2025 - 04/08/2025)	Remote login and file transfer protocols: SSH, SFTP, FTP, SCP, TELNET, SMTP, TCP/IP. Services available on the internet: information retrieval Email, Email protocols Using search engines Some Searching Tips Finding people on the net Web services: Chat, Video conferencing, E-Learning, E-Banking, E-Shopping, E-Reservation, E-Governance, E-Groups Social networking Mobile technologies: SMS, MMS, 3G, 4G, 5G Inserting Audio - linking to an Audio clip, <embed> tag, <source> tag, <audio> tag and attributes Inserting Video - linking to a Video clip, <embed> tag, <source> tag, <video> tag and attributes HTML Forms, Form controls (Buttons, Text input, Radio buttons, Menus, Checkboxes, password Creating Forms using <form> tag & attributes
AUGUST	Cyber Ethics	Cyber Ethics Ethical Issues Open source Philosophy & Software Licences Freedom of Information & Digital Divide	Netiquettes Software licenses, Open Source Philosophy Ethical Issues - Intellectual property rights, Plagiarism and Digital property rights Digital divide Cyber Ethics for E-commerce: Privacy, fraud Secure data transmission
SEPTEMBER	HTML - CSS	Cascading Style Sheets	* CSS * Three ways of adding stylesheet to a web page - Inline, Internal, External * Style attributes - colour, background-colour, border-style, margin, height, width, outline, font (family, style, size), align, float
OCTOBER	HTML - CSS(continued)	Cascading Style Sheets PRE MODEL(PERIODIC TEST III) (Oct 8- Oct 18)	Cascading style sheets : color, background - color, border style, margin, height, width, outline, font(family, style, size), align, float Benefits of CSS, Adding stylesheets to webpages Inline, internal/embedded, external styles sheets CSS elements and properties: Universal selector(*), colors and background, properties related to font, text, margins and padding and borders Limitations of CSS
NOVEMBER - DECEMBER		FIRST MODEL EXAMINATION(NOVEMBER 25-DECEMBER 12) PROJECT WORK & RECORD WORK (To be submitted by November) PRACTICAL EXAM(AFTER THE FIRST MODEL)	
DECEMBER			
JANUARY			REVISION
FEBRUARY			SECOND MODEL EXAMINATION - January 1 - January 14