

STD X - YEAR PLAN FOR THE ACADEMIC YEAR 2024-25

ENGLISH LANGUAGE AND LITERATURE

MONTH	TOPIC	SUB-TOPICS	GRAMMAR	WRITING
MARCH 06-26	FIRST FLIGHT UNIT - 1	a. A Letter to God		Letter of Complaint
		b. Dust of Snow(P)		
		c. Fire and Ice(P)		
APRIL 1-12	FIRST FLIGHT UNIT - 2	a. Nelson Mandela : Long Walk to Freedom	Determiners	Letter of Enquiry
		b. A Tiger in the Zoo(P)		
	FOOTPRINTS WITHOUT FEET UNIT - 1	A Triumph of Surgery		
<i>PERIODIC TEST 1 (JUNE 10 to 15)</i>				
JUNE (21 DAYS)	FIRST FLIGHT UNIT - 3	a. Two Stories About Flying	Tenses	Letter Placing Order
		I. His First Flight		
		II. Black Aeroplane		
		b. How to Tell Wild Animals		
		c. The Ball Poem		
	FOOTPRINTS WITHOUT FEET UNIT - 2	The Thief's Story		
	UNIT - 3	The Midnight Visitor		
JULY (24 DAYS)	FIRST FLIGHT UNIT - 4	a. From the Diary of Anne Frank	Modals	
		b. Amanda!		

	FOOTPRINTS WITHOUT FEET			
	UNIT - 4	A Question of Trust		
	UNIT - 5	Footprints Without Feet		
	FIRST FLIGHT			
	UNIT - 5	a. Glimpses of India		
		I. A Baker From Goa		
		II. Coorg		
		III. Tea From Assam		
		b. The Trees		
<i>PERIODIC TEST 2 -(JULY 30 to AUG 7)</i>				
AUGUST (20 DAYS)	FIRST FLIGHT			
	UNIT - 6	a. Mijbil the Otter		
		b. Fog (P)	Subject Verb Concord	Letter to the Editor
	UNIT - 7	a. Madam Rides the Bus		
		b. The Tale of Custard the Dragon (P)		
SEPTEMBER (16 DAYS)	FOOTPRINTS WITHOUT FEET			
	UNIT -6	The Making of a Scientist	Reported Speech- Commands and Requests	Analytical Paragraph
	UNIT - 7	The Necklace		
	FIRST FLIGHT			
	UNIT - 8	a. The Sermon at Benares		
OCTOBER (22 DAYS)	FIRST FLIGHT			
	UNIT - 8	b. For Anne Gregory(P)		
			Reported Speech- Statements and Questions	
	FOOTPRINTS WITHOUT FEET			

	UNIT -8	Bholi		
<i>PERIODIC TEST 3 - (OCT 18 to 30)</i>				
NOVEMBER (24 DAYS)	FIRST FLIGHT			
	UNIT - 9	The Proposal		
	FOOTPRINTS WITHOUT FEET			
	UNIT -9	The Book That Saved the Earth		

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
YEAR PLAN FOR THE ACADEMIC YEAR 2024-25
MALAYALAM
CLASS - X

MONTH	TOPIC	SUB-TOPICS	CONCEPTS	EVALUATION
ഏപ്രിൽ	കാലാതീതം കാവ്യവിസ്മയം അനുഭൂതികൾ ആവിഷ്കാരങ്ങൾ	ലക്ഷ്യേണ സാന്ത്വനം. കടൽത്തീരത്ത്	ഭാഷാപിതാവ്-പ്രാചീന കവിത്രയം കലഹം നിരർത്ഥകം, ഭക്തി പ്രസ്ഥാനം കിളിപ്പാട്ട് പ്രസ്ഥാനം. * കാവ്യാത്മകമായ ഗദ്യം * രചനാകാലത്തെ സാമൂഹികപശ്ചാത്തലം. ആധുനിക ചെറുകഥ	
	രചന	വാക്യപ്രയോഗം അവധാരണം കുത്ത്(ഔദ്യോഗികം)	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	
ജൂൺ	അനുഭൂതികൾ ആവിഷ്കാരങ്ങൾ	പ്രിയദർശനം	* ആധുനിക കവിത്രയം * ഖണ്ഡകാവ്യം * ജീവിതഗന്ധിയായ കവിതകൾ * ജീവിതദർശനം കവിതയിലൂടെ	P 1 : ലക്ഷ്യേണ സാന്ത്വനം, കടൽത്തീരത്ത് - A Part only. *പ്രയോഗം മാറ്റുക *വാക്യ പ്രയോഗം * അവധാരണം *കുത്ത് (ഔദ്യോഗികം)
	വ്യാകരണം	കർത്തരി പ്രയോഗം കർമ്മണിപ്രയോഗം വിധിവാക്യം നിഷേധവാക്യം അംഗാംഗി വാക്യങ്ങൾ	ഭാഷാപ്രയോഗശേഷി	
	ഉപപാഠം	ചട്ടമ്പിസ്വാമികൾ (1-4)	ബാല്യവും വിദ്യാഭ്യാസവും	

ജൂലൈ	സംഘർഷങ്ങൾ സങ്കീർത്തനങ്ങൾ	യുദ്ധത്തിന്റെ പരിണാമം	നിരൂപണ പ്രസ്ഥാനം * ഇതിഹാസങ്ങളുടെ സമകാലിക പ്രസക്തി. * യുദ്ധക്കെടുതികൾ	P 2 : പ്രിയദർശനം കടൽത്തീരത്ത് ചട്ടമ്പിസ്വാമികൾ (1-4 അധ്യായം) വിധി- നിഷേധം പ്രയോഗം മാറ്റുക അംഗാംഗി വാക്യങ്ങൾ വാക്യ പ്രയോഗം ഉപന്യാസം
ആഗസ്റ്റ്	ജീവിതം പടർത്തുന്ന വേരുകൾ	അമ്മത്തൊട്ടിൽ	വാർദ്ധക്യത്തിന്റെ നിസ്സഹായത *പ്രയോഗ ഭംഗി *ആധുനിക സമൂഹത്തിന്റെ മനോഭാവം *കവിതയുടെ കാലിക പ്രസക്തി	
	രചന	പത്രനില്ലോർട്ട് ഉപന്യാസം	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	
സെപ്റ്റംബർ	വാക്കുകൾ വിടരുന്ന പുലരികൾ	പണയം	ആധുനിക ചെറുകഥകൾ * കഥകളിലെ അചേതന കഥാപാത്രങ്ങൾ *ഭാവോത്തകത * വികാരപരത	
	രചന	വാക്യശുദ്ധി	ഭാഷാപ്രയോഗശേഷി	
ഒക്ടോബർ	നിലാവു പെയ്യുന്ന നാട്ടുവഴികൾ	ഓണമുറ്റത്ത്	*കേരളത്തിന്റെ സാംസ്കാരികപൈതൃകത്തിലു ള്ള അഭിമാനം * ഗ്രാമീണസൗന്ദര്യം * പ്രകൃതിയിലെ മാനുഷികഭാവങ്ങൾ .	P 3:യുദ്ധത്തിന്റെ പരിണാമം അമ്മത്തൊട്ടിൽ പണയം പത്രനില്ലോർട്ട് വാക്യപ്രയോഗം, വാക്യശുദ്ധി വിധിവാക്യം നിഷേധവാക്യം അംഗാംഗി വാക്യങ്ങൾ
നവംബർ	ചട്ടമ്പിസ്വാമികൾ - ജീവിതവും സന്ദേശവും	ചട്ടമ്പിസ്വാമികൾ അധ്യായങ്ങൾ(5-9)	മഹത് വ്യക്തികളുടെ ജീവിതം .	

ഡിസംബർ	വ്യാകരണം	ആവർത്തനപാഠം	ഭാഷാപ്രയോഗരീതി. ഭാഷാശുദ്ധി	<p>Model Examinations I & II /Final Examination Topics -</p> <ol style="list-style-type: none"> 1.ലക്ഷ്യേണ സാന്ത്വനം 2.പ്രിയദർശനം 3.അമ്മത്തൊട്ടിൽ 4.ഓണമുറ്റത്ത് 5.കടൽത്തീരത്ത് 6. യുദ്ധത്തിന്റെ പരിണാമം 7.പണയം <p>*ചട്ടമ്പിസ്വാമികൾ (1-9)</p> <p>വ്യാകരണം - അംഗാംഗി വാക്യങ്ങൾ, വാക്യശുദ്ധി, വാക്യപ്രയോഗം ,വിധിവാക്യം - നിഷേധ വാക്യം, പ്രയോഗം മാറ്റുക</p> <p>അവധാരണം, കത്ത്, പത്രനിഷ്ഠാർത്ഥ്, ഉപന്യാസം</p>
ജനുവരി & ഫെബ്രുവരി	രചന	ആവർത്തനം	സാമൂഹികാവബോധം ഭാഷാസിദ്ധി രൂപഘടന	

MONTH	TOPIC	SUB- TOPICS	CONCEPTS
JUNE	1.पद्यम्	शुचिपर्यावरणम्	प्रकृतिसंरक्षणम्
	अभ्यासवान् भव 1- 5	अपठित अवबोधनम्, रचनात्मकं कार्यम्, अनुवादः	
	2.गद्यांशः	बृद्धिर्बलवती सदा	बृद्धिरेव बलम्
	व्याकरणम् 6 & 7	सन्धिः- व्यञ्जनसन्धिः, समासः - तत्पुरुषः	व्याकरणावबोधः
P1- JUNE 10th to 15th LESSONS - 1&2 व्याकरणम् च			
JULY	नाट्यांशः	शिशुलालनम्	रामायणकथापरिचयः
	व्याकरणम्	सन्धिः-विसर्गसन्धिः, समासः - अव्ययीभावः	व्याकरणावबोधः
	5. गद्यांशः	जननी तुल्यवत्सला	मातृस्नेहः
	व्याकरणम् 8	प्रत्ययाः - मत्पु, ठक्, त्व, तल्	
P2- JULY 30th to AUGUST 9th LESSONS- 4&5 व्याकरणम् च			
AUGUST	6. पद्यम्	सुभाषितानि प्रत्ययौ - टाप् , झीप् च	
	व्याकरणम् 9	अव्ययानि, समासः- बहुव्रीहिः द्वन्द्वः च समयः	
SEPTEMBER	नाटकम्	सौहार्दं प्रकृतेः शोभा	पारस्पर्यविषये गद्यांशः
	व्याकरणम् 11	वाच्यपरिवर्तनम्। (लट्)	
OCTOBER	गद्यम्	विचित्रः साक्षी	न्यायान्यायविवेकः
	व्याकरणम् 12	अशुद्धिसंशोधनम्- वचन - लिङ्ग- विभक्ति- लकार- वृष्ट्	वाक्यशुद्धिः
	पद्यम्, व्याकरणम्	सूक्तयः ,	सूक्तीनाम् अवबोधः व्याकरणावबोधः
	पद्यम्	अन्योक्तयः	अन्योक्तीनां अवबोधनम्
P3-OCT.18th to 30th OCT. LESSONS- 6,7,8,			
NOVEMBER	Revision	Revision	9 and व्याकरणम् च
DECEMBER	DEC 2nd TO DEC 13th FIRST MODEL - ALL LESSONS & GRAMMAR		
JANUARY	JAN 3rd TO JAN 15th SECOND MODEL - 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 2024-25			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	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 $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$.
APRIL	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.
JUNE	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
	Periodic Test 1- Chapters 1 and 2		
	QUADRATIC EQUATIONS	Quadratic Equations Solution of a Quadratic Equation by Factorisation Nature of Roots	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.
	QUADRATIC EQUATIONS	Contd.....	

JULY	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
	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. (Motivate) If one angle of a triangle is equal to
Periodic Test 2- Chapters 1,2,3,4			
AUGUST	TRIANGLES	Contd.....	
	COORDINATE GEOMETRY	Distance Formula, Section Formula	linear equations. Distance formula. Section formula (internal division).
	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).
	PROBABILITY	Probability — A Theoretical Approach	Classical definition of probability. Simple problems on finding the probability of an event.

SEPTEMBER	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.
Periodic Test 3- Chapters 1,2,3,4,5,6,7,13			
OCTOBER	INTRODUCTION TO TRIGONOMETRY	Contd.....	
	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°
	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
	CIRCLES	Contd.....	

NOVEMBER	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.
	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.

BHARATIYA VIDYA BHAVAN, KOCHI**STD: X PHYSICS****YEAR PLAN (2024 - 2025)**

MONTH	UNIT	TOPIC
April	9	<u>Light - Reflection and Refraction (upto - 9.2.3, Sign Convention for Mirrors)</u>
June	9	Light - Reflection and Refraction (Contd.) PERIODIC TEST 1(10 th June to 15 th June) Portions: Ch :9 upto 9.2.3 (upto Sign convention for mirrors)
July	10	Human eye and colourful World (Upto 10.6 - Scattering of light) PERIODIC TEST 2 - 30th July to 9th August CH: 9,10(upto 10.2- defects of vision and correction) (40% from P1 , 60% from P2)
August	10 11	Human eye and colourful World(Contd.) Electricity (Upto 11.4 - Ohm's Law)
September	11 12	Electricity (contd....) Magnetic effects of electric current (upto 12.2 Magnetic field due to current carrying conductor)
October	12	Magnetic effects of electric current (contd.....) (Upto 12.4 Domestic electric circuit) PERIODIC TEST 3 (18 th Oct to 30 th Oct) Portions: Ch 9,10, 11(ch:11,upto 11.4-Ohm's law) [20% from P1(Light - upto 9.2.3), 20% from P2(from 9.2.3 to 10.2), 60% from P3(from 10.2 to 11.4)]
November	12	Magnetic Effects of Electric Current(contd.) REVISION
December		MODEL EXAMINATION 1 (2nd Dec to 13th Dec) CHAP: 9,10,11,12 (FULL PORTION)
January		MODEL EXAMINATION 2 (3rd Jan to 15th Jan)
February		FINAL EXAMINATION
March		FINAL EXAMINATION

BHARATIYA VIDYA BHAVAN, KOCHI
YEAR PLAN FOR THE ACADEMIC YEAR 2024-'25
STD X - CHEMISTRY

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH - APRIL	CHEMICAL REACTIONS AND EQUATIONS	CHEMICAL EQUATIONS TYPES OF CHEMICAL REACTIONS	Writing a Chemical Equation Balanced Chemical Equations Combination Reaction Decomposition Reaction Displacement Reaction Double Displacement Reaction
	CHEMICAL REACTIONS AND EQUATIONS	TYPES OF CHEMICAL REACTIONS HAVE YOU OBSERVED THE EFFECTS OF OXIDATION REACTIONS IN EVERYDAY LIFE ?	Oxidation and reduction Corrosion Rancidity
PERIODIC TEST -1 (10/06/2024 -15/06/24) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS (Upto Double Displacement reactions (included))			
	ACIDS, BASES AND SALTS	UNDERSTANDING THE CHEMICAL PROPERTIES OF ACIDS AND BASES	Acids and bases in the laboratory. How do acids and bases react with metals ?
JULY	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? MORE ABOUT SALTS	How do metal carbonates and metal hydrogen carbonates react with acids ? How do acids and bases react with each other? Reaction of metallic oxide with acids. Reaction of non-metallic oxide with bases. What happens to an acid or a base in a water solution? Importance of pH in everyday life. Family of salts. pH of salts. Chemicals from common salt
PERIODIC TEST - 2 (30/07/2024- 09/08/2024) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS CHAPTER 2- ACIDS,BASES AND SALTS (Upto pH (included))			
AUGUST	ACIDS,BASES AND SALTS METALS AND NON-METALS	MORE ABOUT SALTS PHYSICAL PROPERTIES CHEMICAL PROPERTIES OF METALS HOW DO METALS AND NON-METALS REACT?	Chemicals from common salt Are the crystals of salts really dry? Metals Non-metals What happens when metals are burnt in air? What happens when metals react with water? What happens when metals react with acids? How do metals react with solutions of other metal salts? The reactivity series Properties of ionic compounds
SEPTEMBER	METALS AND NON-METALS CARBON AND ITS COMPOUNDS	OCCURRENCE OF METALS CORROSION BONDING IN CARBON- THE COVALENT BOND VERSATILE NATURE OF CARBON	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 Saturated and unsaturated carbon compounds Chains, branches and rings Will you be my friend? Homologous series. Nomenclature of carbon compounds.

OCTOBER	<p style="text-align: center;">REVISION PERIODIC TEST -3 (18/10/2024- 30/10/2024) CHAPTER 1- CHEMICAL REACTIONS AND EQUATIONS CHAPTER 2- ACIDS,BASES AND SALTS CHAPTER 3- METALS AND NON-METALS</p>		
	CARBON AND ITS COMPOUNDS	CHEMICAL PROPERTIES OF CARBON COMPOUNDS	Combustion Oxidation Addition reaction Substitution reaction
NOVEMBER	CARBON AND ITS COMPOUNDS	SOME IMPORTANT CARBON COMPOUNDS- ETHANOL AND ETHANOIC ACID SOAPS AND DETERGENTS	Properties of ethanol Properties of ethanoic acid
DECEMBER	FIRST MODEL EXAMINATION - (02/12/2024 - 13/12/2024)		
JANUARY	SECOND MODEL EXAMINATION - (03/01/2025 -15/01/2025)		

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25

CLASS	STD X		
SUBJECT	BIOLOGY		
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
March -April	Life Processes	5.1 WHAT ARE LIFE PROCESSES? 5.2 NUTRITION 5.3 RESPIRATION	*Autotrophic Nutrition *Heterotrophic nutrition *How do organisms obtain their nutrition *Nutrition in human beings *Breakdown of glucose by various pathways *Human respiratory system
June	Life Processes	5.4 TRANSPORTATION 5.5 EXCRETION	*Transportation in animals *Transportation in plants *Excretion in animals *Excretion in plants
PERIODIC TEST I (10 June- 15 June) *Chapter 5 Life Processes-Nutrition, Respiration Upto fig. 5.8-Breakdown of glucose by various pathways included)			
July	Control and Coordination	6.1 ANIMALS – NERVOUS SYSTEM 6.2 COORDINATION IN PLANTS 6.3 HORMONES IN ANIMALS	*What happens in reflex action *Human Brain *How are nervous tissues protected *How does the nervous tissue cause action *Immediate response to stimulus *Movement due to growth *Endocrine glands in human beings
PERIODIC TEST II (30 July - 9 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	How do organisms reproduce	7.1 DO ORGANISMS CREATE EXACT COPIES OF THEMSELVES? 7.2 MODES OF REPRODUCTION USED BY SINGLE ORGANISMS 7.3 SEXUAL REPRODUCTION	*The Importance of variations *Fission *Fragmentation *Regeneration *Budding *Vegetative propagation *Spore formation *Why the sexual mode of reproduction *Sexual reproduction in flowering plants
PORTFOLIO- Management of natural resources			

September	How do organisms reproduce (Cont...)	7.3 SEXUAL REPRODUCTION	<ul style="list-style-type: none"> *Reproduction in human beings *Male reproductive system *Female reproductive system *What happens when egg is not fertilised *Reproductive health
	Heredity	8.1 ACCUMULATION OF VARIATION DURING REPRODUCTION 8.2 HEREDITY	<ul style="list-style-type: none"> *Inherited traits *Rules for Inheritance of traits -Mendel's contribution *How traits get expressed
October	Heredity (Cont...)	8.2 HEREDITY	*Sex determination
	Our Environment	13.1 ECOSYSTEM-WHAT ARE ITS COMPONENTS	*Food chain and food web
PERIODIC TEST III (18 October - 30 October) *Chapter 5 Life Processes *Chapter 6 Control and co ordination *Chapter 7 How do organisms reproduce			
November	Our Environment (Cont....)	13.2 HOW DO OUR ACTIVITIES AFFECT THE ENVIRONMENT	<ul style="list-style-type: none"> *Ozone layer and how it is getting depleted *Managing the garbage we produce
December	FIRST MODEL EXAMINATION (2 December - 13 December) Full portions		
January	SECOND MODEL EXAMINATION (3 January - 15 January) Full portions		

BHARATIYA VIDYA BHAVAN - KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2024-25 STD: X - SUBJECT: SOCIAL SCIENCE (087)			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
March/April	G- 1. Resources and Development E- 1. Development P- 1. Power - sharing H-1. The Rise of Nationalism in Europe	<p>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.</p> <p>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.</p> <p>Belgium and Sri Lanka, Majoritarianism in Sri Lanka Accommodation in Belgium, Why power sharing is desirable? Forms of power-sharing.</p> <p>The Rise of Nationalism in Europe Introduction, The 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.</p> <p>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.</p>	<p>Meaning of Resources Utilization and Conservation of resources - land and soils, Sustainable Development of the above resources</p> <p>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> <p>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.</p> <p>Trace the emergence of nationalism in Europe. Understand the nature of nation 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.</p>
June	P-2 Federalism G-2 Forest and Wildlife	<p>What is Federalism? What make India a Federal Country? How is Federalism practiced? Decentralization in India</p> <p>Conservation of forest and wildlife in India Types and distribution of forests and wildlife resources Community and Conservation</p>	<p>Distinguish between unitary and federal government. Key features of federalism and division of legislative powers in India. Rationale of decentralization.</p> <p>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.</p>
June/July	E- Sectors of the Indian Economy	<p>Sectors of Economic Activities Comparing the three sectors Primary, Secondary and Tertiary Sectors in India Division of sectors as organized and unorganized Sectors in terms of ownership: Public and Private Sectors</p>	<p>Comparison of different sectors of the Indian economy. Significance of the service sector in the Indian economy. Differentiate between organized, unorganized, public and private.</p>

	<p>H- Nationalism in India</p> <p>H- The Age of Industrialization.</p>	<p>The First World War, Khilafat and Non - Cooperation Differing Strands within the Movement Towards Civil Disobedience The Sense of Collective Belonging</p> <p>(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</p> <p>(Only the topic mentioned below is for P2 evaluation) Markets for Goods</p>	<p>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.</p> <p>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."</p>
August	<p>G- Water Resources</p> <p>E- Money and Credit</p> <p>H-The Making of a Global World</p>	<p>Water Scarcity and The Need for Water Conservation and Management Multi-Purpose River Projects and Integrated Water Resources Management Rainwater Harvesting</p> <p>"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."</p> <p>(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.</p>	<p>Reasons responsible for water scarcity. Suggestions for water conservation. Role of Multi -purpose River Projects Various methods for rain water harvesting.</p> <p>"Money as a medium of exchange Credit - Positive and negative credit situations. Loan activities of formal and informal sectors.</p> <p>The role of Self-help groups for providing credit to the poor</p> <p>The Pre- modern world The Nineteenth Century {1915-1914} The Inter war Economy. Rebuilding a World Economy: The Post War Era.</p>

September	<p>G-Agriculture</p> <p>P-Gender, Religion and Caste:</p> <p>E-Globalization and the Indian Economy:</p> <p>P-Political Parties:</p>	<p>Types of Farming – Primitive Subsistence, Intensive Subsistence, Commercial Cropping Pattern – Major Crops, Food Crops other than Grains. Non Food Crops Technological and Institutional Reforms. Bhooadaan - Gramdaan.</p> <p>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</p> <p>What is Globalization? Factors that have enabled Globalisation (Above mentioned topics are for evaluation)</p> <p>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</p> <p>Why do we need political parties ,how many parties should we have.National political parties ,state political parties.</p>	<p>"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> <p>"Social identities and nature of gender, religion, and caste in India.Sexual division of labour.Descrimination faced by women after independence.The role of communalisam in politics.Features of secular state.Role of caste and politics in a democracy."</p> <p>Definition and factors that enabled globalisation.</p> <p>Necessity of political parties.Difference between a national and state party.Challenges and the suggestionsto reform the political parties.</p>
October	<p>G-Minerals and Energy Resources</p> <p>P- Outcomes of Democracy</p> <p>G-Manufacturing industries</p>	<p>What is a mineral? Mode of occurance of Minerals.Where are these minerals found?Ferrous Minerals, Non-Ferrous Minerals.NonMetallic Minerals. Conservation of Minerals. Energy Resources - Conventional Sources of Energy,Non-Conventional Sources of Energy. Conservation of Energy Resources.</p> <p>How do we assess democracy’s outcomes?Accountable, responsive and legitimate government. Economic growth and development.Reduction of inequality and poverty. Accommodation of social diversity.Dignity and freedom of the citizens.</p> <p>Importance of Manufacturing - Agro based Industry Mineral based Industries</p>	<p>Occurance and classification of minerals.Difference between conventional and non- conventional sources of energy. Conservation - Sustainable Development.</p> <p>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</p>

		Industrial Pollution and Environmental Degradation, Control of Environmental Degradation.	individuals. Manufacturing sector is considered as the backbone of the country's economic development. Classification of industries. .Industrial pollution and methods of conservation.
November	H- Print ,Culture and the Modern World G- LIFELINES OF NATIONAL ECONOMY.	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. MAJOR AIRPORTS AND SEAPORTS .	Evolution of print in Europe. Role and impact of print revolution. Link between print culture and circulation of ideas. MAP WORK ONLY AS PER CBSE

BHARATIYA VIDYA BHAVAN, KOCHI

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25

SUBJECT : HOME SCIENCE

CLASS: X

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH - APRIL	Unit I: Human growth & development II	1. Play (birth-5 years) 2. Childhood(3 to11 years) 3. Adolescents	1. Role of play in growth & development of children. Types of playactive, passive, natural, serious and exploratory, selection of play material for children. 2. Age specific milestones- Physical, motor, social, emotional, cognitive and language 3. Special Features- Physical and biological, motor ,social, emotional, Cognitive and language
JUNE	PERIODIC TEST 1 - UNIT I: Human growth & development II		
JUNE	Unit II: Management of Resources: Time, Energy and Money	1. Time Management 2. Time plan 3. Energy Management 4. Fatigue and work Simplification	1. Definition, Importance, Factors affecting time plan. 2. Definition and Importance of energy management. 3. Psychological and physiological fatigue, methods of work simplification
JULY	Unit III: Food and Personal Hygiene	1. Principles of hygienic handling and serving of food 2. Hygiene in kitchen 3. Personal hygiene of food handler 4. Hygiene during food storage	1. Food hygiene and food handler - Definition 2. Precautionary measures need to be adopted to ensure safe handling of food.
	Unit IV: Meal Planning	1. Concept of Meal Planning 2. Factors affecting meal planning	1. Meal Planning - definition 2. Factors - age, sex, climate, occupation, cost of food items, number of family members, occasion, availability of food, family traditions, likes and dislikes
	PERIODIC TEST 2 -		
			UNIT I: Human growth & development II UNIT II: Management of Resources: Time, Energy and Money UNIT III: Food and Personal Hygiene

AUGUST	Unit IV: Meal Planning	3. Basic food groups given by ICMR 4. Use of food groups in planning balanced meal for self and family.	1. Food groups - Definition and Groups. 2. Balanced diet - Definition and dietary tips
SEPTEMBER	Unit V: Food Safety and Consumer Education	1. Problems faced by Consumer 2. Food adulteration 3. Food Safety Standards-FSSAI (2006)	1. Consumer problems - Price variation, poor quality, Faulty weights and measures, Non-availability of goods, Misleading information, Lack of standardized products 2. Food adulteration - Definition, adulterants(Metanyl yellow, Argemone ,Kesari dal) and harmful effects of these adulterants on human health, 3. Food safety - Definition and standard marks
OCTOBER	Unit VI: Care and Maintenance of Fabrics and Apparel	1. Cleaning and finishing agents used in routine care of clothes. 2. Stain Removal 3. Storage	1. Cleaning and finishing agents - Auxiliaries and Cleansers 2. Stain - definition, types, rules of stain removal 3. Storage - General rules and tips for storing cotton, silk, wool and synthetics
OCTOBER	PERIODIC TEST 3 - UNIT I: Human growth & development II UNIT II: Management of Resources: Time, Energy and Money UNIT III: Food and Personal Hygiene UNIT IV: Meal planning UNIT V: Food Safety and Consumer Education		
NOVEMBER	REVISION		
DECEMBER	FIRST MODEL EXAMINATION		
JANUARY	SECOND MODEL EXAMINATION		

BHARATIYA VIDYA BHAVAN ,KOCHI KENDRA
COMPUTER APPLICATIONS
YEAR PLAN FOR THE ACADEMIC YEAR 2024-25

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 and services and Mobile Technologies	Introduction to Internet Internet protocols Services available on Internet Web services Mobile Technologies PERIODIC TEST – I (JUNE 10-JUNE 15)	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. Remote login and files transfer protocols : SSH, SFTP, FTP, SCP, Telnet, SMTP, TCP/IP . Services available on Internet – information retrieval, locating sites using search engines and finding people on the net. Web services – Chat, e-mail, video conferencing, e-learning, e-banking, e-shopping, e-reservation, e-governance, e-group, social networking. Mobile Technologies :SMS,MMS,3G, 4G
JULY	HTML 2	Inserting images and forms PERIODIC TEST – II (JULY 30-AUG 09)	Insertion of images using the element IMG (Attributes SRC, Width, height, alt) sup (super script), sub (subscript). HTML Forms :(text box, radio buttons, checkbox , password, list, combo box, reset, submit)

AUGUST	HTML2	Links and Tables	Create a table using the tags: table, tr, th, td, rowspan, colspan, Links: significance of linking, anchor element (attributes: href, mailto), targets.
SEPTEMBER	Cyber Ethics	Cyber ethics for E-commerce Other ethical issues Open Source philosophy and software li Freedom of information and Digital divi	Netiquettes. Software licences and the open source software movement. Intellectual property rights, plagiarism and digital property rights. Freedom of information and the digital divide E-commerce: privacy, fraud, secure data transmission
OCTOBER	CSS	PERIODIC TEST III (Oct 18- Oct 30) DHTML, Static vs Dynamic HTML, CSS elements and properties, Limitations of CSS	Cascading style sheets : color, background - color, border style, margin, height, width, outline, font(family, style, size), align, float DHTML components, 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	HTML 2	Embed audio and video in a HTML page & LINKS (Portions end by November 15) PROJECT WORK & RECORD WORK (To be submitted by November)	Inserting audio using audio tag, linking to an audio clip, embedding an audio clip using embed tag Inserting video using video tag, linking to a video clip, embedding a video clip using embed tag

DECEMBER		MODEL EXAM I - December 2 - December 13	
JANUARY		REVISION MODEL EXAM II - January 3 - January 15 PRACTICAL EXAM	
FEBRUARY		FINAL PRACTICAL EXAM	

BHARATIYA VIDYA BHAVAN , KOCHI KENDRA
YEAR PLAN -2023-2024
SUBJECT : Artificial Intelligence
STD: X

MONTH	TOPIC	SUB TOPICS	CONCEPTS
MARCH/ APRIL	Unit 1 - Introduction to AI	<p>What is Intelligence? Decision Making.</p> <ul style="list-style-type: none"> How do you make decisions? Make your choices <p>What is Artificial Intelligence and what is not? Introduction to AI and related terminologies. Applications of AI AI Ethics</p>	<p>Definition of intelligence AI applications Different types of intelligence Concept of decision making Comparison between AI and not AI</p> <ul style="list-style-type: none"> Introducing AI, ML & DL. Introduction to AI Domains (Data, CV & NLP) <p>A look at Real-life AI implementations AI Ethics (Data privacy, AI bias, AI for all, AI for kids)</p>
JUNE	<p>PART B: Unit 2 - AI Project Cycle PART A: Unit 1 - Communication Skills II</p>	<ul style="list-style-type: none"> Introduction Problem Scoping, Sustainable Development Goals Data Acquisition Data Exploration Modeling & Evaluation Neural Networks. <ul style="list-style-type: none"> Communication cycle and feedback Methods of communication Barriers to effective communication 7 Cs of effective communication 	<ul style="list-style-type: none"> Introduction to AI project cycle Understanding Problem Scoping using 4Ws problem canvas, Problem statement template. Understanding Sustainable Development Goals Data Sources, Data features Data Exploration using different types of charts Different AI models Supervised (Classification, Regression), Unsupervised(Clustering, Dimensionality Reduction) Definition of Evaluation Understanding Neural Networks. Model performance and layers <ul style="list-style-type: none"> Features of Neural Network Methods of communication , Verbal communication, non-verbal communication Understanding Communication cycle and importance of feedback Different types of barriers to effective communication, ways to overcome barriers. <p>(Periodic Assessment 1 - June12 to June 17) Portions for exam (Marks 30) Introduction to AI, AI Project cycle - Problem Scoping</p>
JULY	<p>PART C: Advance Python (To be assessed through Practical) PART A: UNIT 2-Self Management Skills -II</p>	<ul style="list-style-type: none"> Recap 1: Jupyter Notebook Recap 2: Introduction to Python Recap 3: Python Basics Python Packages Self Management Skills -II 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 	<p>Introduction to Python through Jupyter Notebook Variables in Python, print(), input(), conditional statements using if...else, looping statements using for, while Introduction to Python packages - NumPy, OpenCV, Matplotlib</p> <ul style="list-style-type: none"> Introduction to stress management Importance of stress management and stress management techniques Ability to work independently Strength and weakness analysis Difference between abilities and interests Types of motivation Qualities of self-motivated people Goals and setting SMART goals Time management and its importance Tips for effective time management <p>(Periodic Assessment 2 - July 31 to August 5) Portions for exam (Marks 50) AI Project Cycle - Data Acquisition, Data Exploration, Modeling, Evaluation EMPLOYABILITY SKILLS - UNIT 1- Communication Skills, UNIT 2 - Self Management Skills -II</p>

AUGUST	<p>PART A: UNIT 3- Information and Communication Technology Skills-II</p> <p>PART B: DATA SCIENCES</p> <p>PART C: DATA SCIENCES (Practical)</p>	<ul style="list-style-type: none"> ● Basic Computer Organisation and operations. ● Files and folders ● Care and Maintenance of Computer ● Introduction to Data Science ● Revisiting AI Project Cycle ● Concepts of Data Sciences <p>Part C: Data Sciences (Practical)</p> <ul style="list-style-type: none"> ● K-nearest neighbor model (Optional for extra knowledge which will not be assessed for the examination) 	<ul style="list-style-type: none"> ● Basic Computer hardware and software ● Starting up and shutting down ● Using the keyboard - different types of keys ● Using the mouse - different mouse functions ● Performing Basic file operations ● Keeping a device clean <p>Backup your data</p> <ul style="list-style-type: none"> ● Scanning and cleaning viruses ● Computer security and privacy <ul style="list-style-type: none"> ● Applications of Data Science ● Revisiting AI Project Cycle Problem scoping, Data acquisition, data exploration, modelling and evaluation ● Data collection, Types of data, Data access ● Python for Data Sciences ● Statistical Learning & Data Visualization using Numpy, Matplotlib <ul style="list-style-type: none"> ● K-nearest neighbor model (Optional)
SEPTEMBER	<p>PART B: COMPUTER VISION</p> <p>PART C: COMPUTER VISION (Practical)</p> <p>PART A: Employability skills UNIT 4- Entrepreneurial skills II</p>	<ul style="list-style-type: none"> ● Entrepreneurship and society ● Qualities and functions of an entrepreneur ● Myths about entrepreneurship ● Entrepreneurship as a career option. ● Introduction to Computer Vision ● Understanding CV Concepts <p>Part C: Computer Vision (Practical)</p> <ul style="list-style-type: none"> ● Convolution Operator (Optional for extra knowledge which will not be assessed during the examination) 	<ul style="list-style-type: none"> ● Qualities of an entrepreneur ● Functions of an entrepreneur ● Misconceptions about entrepreneurship ● Entrepreneurship as a life choice. <ul style="list-style-type: none"> ● Definition and Applications of CV ● Understanding CV Concepts ● Computer Vision Tasks ● Basics of Images-Pixel, Resolution, Pixel value ● Grayscale and RGB images ● Image features <ul style="list-style-type: none"> ● Introduction to OpenCV ● Hands-on: Image Processing <ul style="list-style-type: none"> ● Convolution Operator (Optional for extra knowledge which will not be assessed during the examination)
OCTOBER	<p>PART B: Unit 6 Natural Language Processing</p> <p>PART A: Unit 5 Green Skills</p>	<ul style="list-style-type: none"> ● Introduction to Natural Language Processing ● Chatbots ● Language Differences ● Concepts of Natural Language Processing ● TFIDF(Optional), NLTK (Optional) ● Sustainable Development ● Our Role in Sustainable Development 	<ul style="list-style-type: none"> ● Introduction to Natural Language Processing ● NLP Applications ● Revisiting AI Project Cycle ● Chatbots - different types of chatbots (Smart and Script bots) ● Human language vs Computer language ● Data Processing ● Bag of Words ● TFIDF(Optional), NLTK (Optional) ● Problems related to Sustainable Development ● Sustainable Development Goals <p>(Periodic Assessment 3 - October 5 to October 16)</p> <p>Portions for exam Theory (Marks 50)</p> <ul style="list-style-type: none"> ● EMPLOYABILITY SKILLS - UNIT 3- Information and Communication Technology Skills-II, UNIT 4- Entrepreneurial skills II ● PART B - DataSciences, Computer Vision, Natural Language Processing

NOVEMBER	PART B: Subject specific skills Unit 7 Evaluation	Introduction <ul style="list-style-type: none"> ● Model Evaluation Terminology : ● Confusion Matrix - ● Evaluation Methods 	Introduction to Evaluation, Importance of testing and training data <ul style="list-style-type: none"> ● The Scenario - Prediction, Reality, True Positive, True Negative, False Positive, False Negative ● Confusion Matrix - Using Confusion matrix for evaluation ● Accuracy <ul style="list-style-type: none"> ● Precision ● Recall ● Which Metric is Important? - Precision or Recall ● F1 Score
DECEMBER			First Model Examination December 5 - December 18
JANUARY			Second Model Examination January 4 - January 17 Board Practical Examination