BHARATIYA VIDYA BHAVAN, KOCHI KENDRA COMPUTER SCIENCE

	YEA	R PLAN FOR THE ACADEMIC YEAR 2024-25	
		CLASS: XI	
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
	Hait II. Commutational Thinking and		Interesting to people a solidar and basics of Dath or
l <u>-</u>	Unit II: Computational Thinking and		Introduction to problem solving and basics of Python
JUNE	Programming - 1 (Getting Started with	Getting Started with Python	programming Different Types of data
	Python)		Different Types of data
JULY	Unit II: Computational Thinking and	Conventail Stanment and Conditional	
JULY	Programming - 1 (SEQUENTIAL, CONDITIONAL STATEMENTS)	staements)	Decision making based on boolean values
	<u>'</u>	<u>.</u>	
	UNIT TEST 1 -31/07/2024 (GETTI	NG STARTED WITH PYTHON, SEQUENTIAL,	CONDITIONAL STATEMENTS)
AUGUST	Unit II: Computational Thinking and	While Loop	
AUGUST	Programming - 1 (WHILE LOOP)	Willie Loop	Looping / repetition
			Looping / repetitionIntroduction to List and List
SEPTEMBER	Unit II: Computational Thinking and		Operations - collection of heterogeneous objects -
	Programming - 1 (FOR LOOP,LISTS)	For loop,List	mutable data type
TERM END	EVALUATION 40/40/2024 (CETTING STARTER VA	WITH DVILLON, CEOLIENITIAL CONDITIONAL	CTATEMENTS ITERATIVE STATEMENT LISTS IN DVTILON)
I EKIVI END I	EVALUATION -18/10/2024 (GETTING STARTED W	THE PYTHON, SEQUENTIAL, CONDITIONAL	STATEMENTS,ITERATIVE STATEMENT,LISTS IN PYTHON)
			Introduction to tuple and tuple operations - collection of
			heterogeneous data - immutable data type
	Unit II: Computational Thinking and		Introduction to dictionary and dictionary operations -
OCTOBER	Programming - 1 (TUPLE, DICTIONARY)	Tuple Dictionary	mapping of key-value pair
NOVEMBER	Unit II: Computational Thinking and	Strings	String operations
INCALINIDEK	Programming - 1 (STRINGS)	Stilligs	

			Components of Computer System, Processor
DECEMBER		Boolean Logic, Number System	fundamentals, Storage
	Unit 1: Computer Systems and Organisation	n	Concept of Boolean logicConcept od Data and Data
	UNIT TEST 2 -03/01/202	5 (TUPLE,DICTIONARY,STRING,BOOLEAN LOGIC	c, NUMBER SYSYTEM)
	Unit 2: Computational Thinking and		
	Programming - I	Python Modules	
JANUARY	Unit 3: Society, Law and Ethics	Digital Footprint, Data protection, Malware	Digital Society, Etiquettes in digital society, Data Protection
FEBRUARY	Unit 3: Society, Law and Ethics	Ewaste management	Environment Protection
		FINAL EXAMINATTION (17/02/2025)	
MARCH			
S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BVM, ELAMAKKARA	Bindu T C	
2	BVM, EROOR	Anupama Usha	
3	BVV, THRIKKAKARA	Aleyamma Gerge	
4	BVM, GIRINAGAR	Girija Pillai	
5	BAV, KAKKANAD	Seema C	
6	BMV, TRIPUNITHURA	Susmitha S Shenoy	
7	BNV, VELLOOR	Anoop M A	

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

STD · XI ARTIFICIAL INTELLIGENCE

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
June	PART B: Unit 1: Introduction: Artificial Intelligence for Everyone PART A:Unit 1: Communication Skills-III PART B Unit 2: Unlocking your Future in AI:	Unit 1: Introduction To AI: What is AI? History of AI What is Machine Learning What is data? Terminology and Related Concepts What machine learning can and cannot do More examples of what machine learning can and cannot do Jobs in AI Unit 1: Communication Skills-III: Session 1: Introduction to Communication	Unit 1: Introduction To AI: Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL) Unit 1: Communication Skills-III: Types of communication, Communication styles Unit 2: Unlocking your Future in AI: Common Job Roles In AI AI Careers Opportunities in AI

July	PART B: UNIT 3 - PYTHON PROGRAMMING (Level 1) Level 1: Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements PART A: Unit 1: Communication Skills-III	PART B Unit 2: AI Applications & Methodologies: Present day AI and Applications Key Fields of Application in AI Characteristics and types of AI Cognitive Computing (Perception, Learning, Reasoning) Recommended deep-dive in NLP, CV AI and Society The Future with AI, and AI in Action Non-technical explanation of deep learning PART A Unit 1: Communication Skills-III Session 7: Writing Skills — Parts of Speech Session 8: Writing Skills — Sentences Session 9: Greetings and Introduction Session 10: Talking about Self Session 11: Asking Questions Session 12: Talking about Family Session 13: Describing Habits and Routines Session 14: Asking for Directions	Unit 2: AI Applications & Methodologies: AI applications, cognitive computing, Impact of AI on society Unit 1: Communication Skills-III Writing skills, communication skills. UNIT 3 - PYTHON PROGRAMMING (Level 1) Level 1: Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements Unit Test I: 31/07/2024
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August	PART A: Unit 2 : Self-Management Skills-II PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)	Unit 5: Data Literacy – Data Collection to Data Analysis	Unit 2 : Self-Management Skills-III Self Awareness, Importance of working in team
	PART B: Unit 5: DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS	 What is Data Literacy? Data Collection Exploring Data Statistical Analysis of data Representation of data, Python Programs for Statistical Analysis and Data Visualization Introduction to Matrices Data Pre-processing 	UNIT 3 - PYTHON PROGRAMMING (Level 2) Unit 5: DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS

September	PART B: UNIT 8 – AI ETHICS AND VALUES PART A: Unit 3: Information and Communication Technology Skills-III	Communication Technology Skills-III Session 1: Introduction to ICT Session 2: Basic Interface of LibreOffice Writer Session 3: Saving, Closing, Opening and Printing Document Session 4: Formatting Text in a Word Document Session 5: Checking Spelling and Grammar	Unit 8: AI Values (Ethical Decision Making) AI applications, Ethics, Bias, Jobs in AI age Unit 3: Information and Communication Technology Skills-III Basic operations in Libre Office Writer
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Term End Evaluation I: 18/10/2024

October	PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT(Practical only) - (Theory questions can be asked only for Annual exam) PART A: Unit 4: Entrepreneurial Skills-III	PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT(Practical only) Design Thinking Empathy Map Sustainable Development Goals Capstone Project PART A: Unit 4: Entrepreneurial Skills-III • Session 1: Introduction to Entrepreneurship • Session 2: Values of an Entrepreneur • Session 3: Attitude of an Entrepreneur • Session 4: Thinking Like an Entrepreneur • Session 5: Coming Up with a Business Idea • Session 6: Understanding the Market • Session 7: Business Planning	PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT(Practical only) Unit 4: Entrepreneurial Skills-III Functions and qualities of an entrepreneur
November	PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE PART A: Unit 5 : Green Skills-III	PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE PART A: Unit 5 : Green Skills-III • Session 1: Sectors of Green Economy • Session 2: Policies for a Green Economy • Session 3: Stakeholders in Green Economy • Session 4: Government and Private Agencies	PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE Unit 5 : Green Skills-III • Green economy initiatives • Importance of green economy

December	PART B - UNIT 6 – MACHINE LEARNING ALGORITHMS	PART B: UNIT 6 – MACHINE LEARNING ALGORITHMS • Machine Learning in a nutshell • Types of Machine Learning • Supervised Learning • Understanding Correlation, Regression, Finding the line, Linear Regression algorithm	UNIT 6 – MACHINE LEARNING ALGORITHMS
			Unit Test II : 03/01/2025
January	UNIT 6 – MACHINE LEARNING ALGORITHMS Unit 5: CAPSTONE PROJECT	UNIT 6 – MACHINE LEARNING ALGORITHMS • Classification – How it works, Types, k – Nearest Neighbour algorithm • Unsupervised Learning • Clustering – How it works, Types, k -means Clustering algorithm Unit 5: CAPSTONE PROJECT CAPSTONE PROJECT (Project Work)	UNIT 6 – MACHINE LEARNING ALGORITHMS Unit 5: CAPSTONE PROJECT

February	Capstone Project / Practical and Revision Practical Exam (Before February 15)	Capstone Project / Practical and Revision Practical Exam (Before February 15)	Capstone Project / Practical and Revision Practical Exam (Before February 15)
			Final Examination: 17/02/2025
S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
			SIGNATURE
1	BVM, ELAMAKKARA	Sangeeta Srinivas	
2	BVM, EROOR	Aneesha M R	
3	BVV, THRIKKAKARA	Anagha Mani	
4	BVM, GIRINAGAR	Vandana .P	
5	BAV, KAKKANAD	Neethesh N Shenoy	
6	BMV, TRIPUNITHURA	Susmitha S Shenoy	
7	BMV, VELLOOR	Shybee Thomas, Anish M N, Anoop M A	

	BHARATIYA VIDYA BHAVAN,KOCHI KENDRA			
YEAR PLAN -2024-2025				
	Std :XI		PHYSICS	
MONTH	TOPIC	SUB-TOPICS	CONCEPTS	
JUNE	CHAPTER 1- UNITS AND MEASUREMENT CHAPTER 2- MOTION IN A STRAIGHT LINE	Need for measurement: significant figures. Dimensions of physical quantities Describing motion, Relations for uniformly accelerated motion (graphical treatment).	Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures,Rounding off(Mathematical Operations using significant figures).Dimensions of physical quantities, dimensional analysis and its applications. Frame of reference, Motion in a straight line, uniform and non-uniform motion, Uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).	
JULY	MOTION IN A STRAIGHT LINE (CONTD) CHAPTER 3- MOTION IN A PLANE	Instantaneous velocity Scalar and vector quantities; Vector operations Resolution of vectors Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion uniform circular motion	Elementary concepts of differentiation and integration for describing motion, instantaneous velocity. Scalar and vector quantities, position and displacement vectors, general vectors and notations, equality of vectors, multiplication of vectors by a real number, unit vector, Addition and subtraction of vectors, Resolution of a vector in a plane, rectangular components, Scalar and vector product of vectors, Motion in a plane, cases of uniform velocity and uniform acceleration, Projectile motion, Uniform circular motion.	
	CHAPTER 4- LAWS OF MOTION(UPTO FRICTION)	Newtons first law of motion,Newton second law of motion,Newtons third law of motion,conservation of linear momentum ,Equilibrium of concurrent forces	Intuitive concept of force, Inertia, Newton's first law of motion. Momentum and Newton's second law of motion; impulse.Newton's third law of motion. Law of conservation of linear momentum and its applications.Equilibrium of concurrent forces.	

UNIT TEST 1 UNITS AND MEASUREMENT(10 Marks), MOTION IN A STRAIGHT LINE (8 Marks), MOTION IN A PLANE UPTO PROJECTILE MOTIONPROJECTILE MOTION NOT INCLUDED (7 Marks).

AUGUST	LAWS OF MOTION (CONT) CHAPTER 5-WORK ENERGY AND POWER	Friction Work Energy Collision	Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion:Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). Work done by a constant force and a variable force ,kinetic energy, work-energy theorem,power,Notion of potential energy,potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle. Elastic and inelastic collisions in one and two dimensions.
SEPTEMBER	CHAPTER 6- SYSTEM OF PARTICLES AND ROTATIONAL MOTION CHAPTER 7- GRAVITATION	Center of mass Moment of a force and angular momentum Equilibrium of rigid bodies Moment of inertia. Kepler's laws of planetary motion Universal law of gravitation Gravitational potential energy Escape speed, orbital velocity of a satellite	Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum,law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Kepler's laws of planetary motion universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential Escape speed, orbital velocity of a satellite.
OCTOBER	CHAPTER 8- MECHANICAL PROPERTIES OF SOLIDS	Elastic behaviour of solids, Modulus of Elasticity Elastic Energy	Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity(qualitative idea only), Poisson's ratio; elastic energy

TERM END EXAMINATION I - UNITS AND MEASUREMENT(9 Marks),
MOTION IN A STRAIGHT LINE (9 Marks),
MOTION IN A PLANE (12 Marks), LAWS OF MOTION (12 Marks),
WORK ENERGY AND POWER (12Marks) & SYSTEM OF PARTICLES AND ROTATIONAL MOTION (16 Marks)

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NOVEMBER	CHAPTER 9- MECHANICAL PROPERTIES OF FLUIDS CHAPTER 10 - THERMAL PROPERTIES OF MATTER CHAPTER 13 - OSCILLATIONS	Pressure, Viscosity Surface tension, Capillary rise. Heat ,heat transfer, blackbody radiation Periodic motion, simple harmonic motion energy in SHM	Pressure due to a fluid column; Pascal's law and its applications, (hydraulic lift and hydraulic brakes), Effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, Angle of contact, excess of pressure across a curved surface, Application of surface tension, Ideas to drops, bubbles, Capillary rise Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law. Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their applications. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.
DECEMBER	CHAPTER 14-WAVES	Wave motion,reflection of waves	speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, Reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.
		UNIT TEST II	
	MECHANICAL PROPERTIES OI	GRAVITATION(10 Ma F SOLIDS (5 Marks) & MECHAN BERNOUILL'S THEOREM (ICAL PROPERTIES OF FLUIDS INCLUDING
JANUARY	CHAPTER 11-THERMODYNAMICS CHAPTER 12-KINETIC THEORY OF GASES	Zeroth law ,first law,Second law and thermodynamical process. Equation of state of a perfect gas,Kinetic theory of gases,degrees of freedom	Thermal equilibrium and definition of temperature, zeroth law of thermodynamics Heat, work and internal energy.First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, changeof condition of gaseous state - isothermal, adiabatic, reversible, irreversible, and cyclic processes. Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gasesassumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; Degrees of freedom, Law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.

	REVISION						
	FINAL EXAMINATION						
		UNITS AND MEASUREMI	ENT(5 Marks),				
	MOTION I	NA STRAIGHT LINE & MOT	TON IN A PLANE (8 Marks),				
		LAWS OF MOTION (5 Marks),				
		WORK ENERGY AND POV	VER (4 Marks),				
FEBRAURY	SYSTEM	OF PARTICLES AND ROTAT					
		GRAVITATION(51	Marks),				
	MECHA	MECHANICAL PROPERTIES OF SOLIDS & FLUIDS (9 Marks),					
	THERMAL PROPERTIES OF MATTER &THERMODYNAMICS (7 Marks),						
	KINETIC THEORY OF GASES (6 Marks),						
	OSCILLATIONS & WAVES (15 Marks).						
	Name of the teacher	School	Signature				
	Indira Devi K K	BMV,Thripunithura					
	Gayathri R	BVM,Girinagar					
	Sreejith C K	BVV, Thrikkakara					
	Lovely K N	BNV ,Vellore					
	Kalpana B N	BAV , Kakkanad					
	Bindu S Nair	BVM, Elamakkara					
	Kala S Pillai	BVM, Eroor					

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA YEAR PLAN FOR THE ACADEMIC YEAR 2024-25 **CLASS XI - ACCOUNTANCY** MONTH TOPIC **SUB-TOPICS CONCEPTS** 1.1 Meaning of Accounting Accounting- concept, meaning, Advantages and limitations, Role of accounting in Business. 1.2 Accounting as a Source of As a source of information, Types of Accounting Information information and their needs, Users of accounting information. Qualitative Characteristics of Accounting Information Maintenance of Records of Business Transaction Introduction to Calculation of Profit and Loss JUNE Accounting 1.3 Objectives of Accounting Depiction of Financial Position Providing Accounting Information to its User 1.4 Basic Terms in Accounting Entity, Business Transaction, Capital, Drawings\Liabilities (Non-Current and Current). Assets (Non-Current, Current); Expenditure (Capital and Revenue), Expense, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount) 2.1 Generally Accepted **Accounting Principles** Fundamental accounting assumptions': Concept Theory Base of 2.2 Basic Accounting Concepts Business Entity, Money Measurement, Going Concern, JUNE -JULY Accounting Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure. Consistency, Conservatism, Materiality and Objectivity

		2.3 Systems of Accounting	Meaning
		2.4 Basis of Accounting	Cash basis and Accrual Basis
		2.5Accounting Standards	Applicability of Accounting Standards (AS) and Indian Accounting Standards (IndAS)
	arnantun.	2.6 Goods and Services Tax (GST)	Characteristics and Advantages.
	Recording of	3.1Voucher and Transactions	Source documents and Vouchers, Preparation of Voucher
JULY	Business Transactions	3.2 Accounting Equation Approach	Meaning and Analysis.
	THE SPACE OF STREET	UNIT TEST I (31 July – 7	
	Recording of	3.3 Rules of Debit and Credit.	Traditional and Modern Approach
AUGUST	Business Transactions	3.4 Books of Original Entry	Journal with GST
		4.1 Cash Book	Simple cash book, cash book with bank column and petty cashbook
	Recording of	4.2 Special Purpose books	Purchases book, sales book, Purchases return book, sales return book and Journal proper
SEPTEMBER	Business Transactions		Note: Including trade discount, freight and cartage expenses for simple GST calculation.
OCTOBER	Recording of Business Transactions	4.3 Ledger	Format, posting from journal and subsidiary books, Balancing of accounts
OCTOBER- NOVEMBER	Recording of Business Transactions	5.1 Trial balance	
Igsoid). Troble province and the		Trial balance: objectives, meaning and preparation (Scope: Trial balance with balance method only)

TERM END EVALUATION (18 October – 30 October)

NOVEMBER	Recording of Business Transactions	5.2 Rectification of Errors	Errors: classification-errors of omission, commission, principles, and compensating; their effect on Trial Balance Detection and rectification of errors Preparation of suspense account.
		6.1 Bank reconciliation Statement	Need and preparation, Bank Reconciliation Statement
		7.1 Depreciation	Depreciation: Meaning, Features, Need, Causes, factors · Other similar terms: Depletion and Amortisation · Method of Depreciation: i. Straight Line Method (SLM) ii. Writter Down Value Method (WDV) Note: Excluding change of method · Difference between SLM and WDV; Advantage of SLM and WDV · Method of recoding depreciation i. Charging to asset account ii. Creating provision for depreciation/accumulated depreciation account, Treatment of disposal of asset
DECEMBER	Recording of Business Transactions	7.2 Provisions and Reserves	Meaning, Difference Between Provisions and Reserves. Types of Reserves: i. Revenue reserve ii. Capital reserve iii. General reserve iv. Specific reserve v. Secret Reserve Difference between capital and revenue reserve
	Carrier Strain - A	UNIT TEST II (3 January – 10 J	anuary)

	Financial Statements	8.1 Preparation of financial statements without adjustments	Meaning, objectives and importance; Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journal entry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit. Preparation. Balance Sheet: need, grouping and marshalling of assets and liabilities. Preparation.
JANUARY - FEBUARY		8.2 Preparation of financial statements with adjustments	Adjustments in preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, Abnormal loss, goods taken for personal use/staff welfare, interest on capital and manager's commission. Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments.
FEBUARY	Accounts of Incomplete Records	9.1 Incomplete Records	Features, reasons and limitations. Ascertainment of Profit/Loss by Statement of Affairs method. (excluding conversion method)
		REVISION AL EXAMINATION (17 Februar	v - 28 February)

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25			STD XI ECONOMICS
MONTH	TOPIC	SUB-TOPICS	CONCEPTS

	1. Introduction to Statistics	What is Economics? Meaning, scope and importance of statistics in Economics	Consumer, Producer, Seller, Employer, employee, Economic activity, Consumption, Production and Distribution, Market, Economics, Statistics, Economic policy, Economic data.
JUNE	1. Introduction	Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of Production Possibility Frontier and Opportunity Cost.	Micro & Macroeconomics, Normative & Positive economics, Economy, Central problems, PPC, Opportunity cost
JULY	2. Collection of data	Sources of data - primary and secondary; how basic data is collected, with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organization.	Sources of data, Primary data, Secondary data, Methods of data collection, Questionnaire and preparation, Modes of data collection, Personal interview, Mailing questionnaire, Telephonic interview, Pilot survey, Census, Population & Sample, Random & non-random sampling, Sampling & non-sampling errors, NSO.
	2. Consumer's Equilibrium and Demand	Consumer's equilibrium - meaning of Utility, Marginal Utility, Law of Diminishing Marginal Utility, conditions of consumer's equilibrium using marginal utility analysis	Consumers equilibrium, Utility, MU, DMU
AUGUST	3. Organization of data	Meaning and types of variables; Frequency Distribution. frequency array, exclusive and inclusive series.	Raw data, classification of data, Types of classification, Variables & attributes, Continuous & Discrete variables, Frequency distribution, Equal & Unequal classes, Inclusive & Exclusive classes, Adjustments in class intervals, Loss of information, Frequency distribution with unequal classes, Frequency array, Bivariate frequency distribution.

	2. Consumer's Equilibrium and Demand 4. Presentation of data	Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium. Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams – Simple and Multiple, Pie diagram) (ii) Frequency diagrams (histogram, Polygon and ogive)	Indifference curve, IC map, Budget line, Budget set. Textual presentation of data, tabular presentation, Parts of a table, Diagrammatic presentation, Bar diagrams &Pie diagrams, Frequency diagrams-Histogram, Polygon, Ogives, Arithmetic line graphs
SEPTEMBER	2. Consumer's Equilibrium and Demand	Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement	Demand, Market demand, Demand schedule, Demand curve, Price elasticity
	5. Measures of central tendency:	Mean, Median & Mode	Mean (simple), Median and Mode
	mean (simple), median and mode		
OCTOBER/ NOVEMBER	3. Producer Behaviour and Supply	Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor Cost – Short run costs - Total Cost, Total Fixed Cost, Total Variable Cost; Average Cost; Average Fixed Cost, Average Variable Cost and Marginal Cost - meaning and their relationships. Revenue – Total Revenue, Average Revenue and Marginal Revenue - meaning and their relationship. Producer's Equilibrium - meaning and its conditions in terms of Marginal Revenue Marginal Cost. Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price	Production function, TP, AP, MP,TR,AR,MR,TC,AC,MC, Price elasticity, Supply

		elasticity of supply; measurement of price elasticity of supply - percentage-change method.	
NOVEMBER/ DECEMBER	6.Correlatation	meaning and properties, scatter diagram; measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation (Non-Repeated Ranks and Repeated Ranks).	Correlation, Scatter diagram, Ungrouped data, Repeated and non-repeated ranks
JANUARY	7. Introduction to Index numbers	meaning, types - Wholesale Price Index, Consumer Price Index and index of industrial production, uses of index numbers; Inflation and Index Numbers, Simple Aggregative Method.	Wholesale Price Index, Consumer Price Index and index of industrial production, uses of index numbers; Inflation and Index Numbers, Simple Aggregative Method.
JANUARI	_	Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. (Short Run Only) Simple Applications of Demand and Supply: Price ceiling, Price floor.	Perfect competition, Price ceiling, Price floor.
FEBRUARY	REVISION/FINAL EXAM		

	BHARATIYA VIDYA BHAVAN, KOCHI KENDRA							
	YEAR PLAN FOR THE ACADEMIC YEAR 2024-2025							
			STD XI - MATHEMATIC	CS (041)				
MONTH	UNIT	TOPIC	SUB TOPICS	CONCEPTS				
	1	SETS	Introduction Sets and their representations Empty set Finite and Infinite sets Equal Sets Subsets Intervals as subsets of R Universal set Operations on sets Complement of a set	Sets and their representations. Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations), Universal set, Venn diagrams, Union and Intersection of sets, difference of sets, complement of sets, properties of complement.				
JUNE	2	RELATIONS AND FUNCTIONS	Introduction Cartesian product of sets Relations Functions	Ordered pairs, Cartesian product of the sets, Number of elements in the cartesian product of two finite sets, Cartesian product of the set of reals with itself (RxRxR). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions with their graphs. Sum, difference, product and quotient of functions.				

JULY	4	COMPLEX NUMBERS & QUADRATIC EQUATIONS	Introduction Complex numbers Algebra of complex numbers Argand plane	Need for complex numbers, especially √-1 to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.
			MID TERM EVALUATION (Chapters - 1, 2 & 4)	ON I
AUGUST	8	SEQUENCES AND SERIES	Introduction Sequences Series Arithmetic Mean Geometric progression Relationship between AM and GM	Sequences & Series, Arithmetic Mean (A.M.) Geometric Progression (GP), general term of a G.P, sum of first n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.
SEPTEMBER	3	TRIGONOMETRIC FUNCTIONS	Introduction Angles Trigonometric functions Trigonometric functions of sum and diffence of some angles	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the trigonometric identity $\sin^2 x + \cos^2 x = 1$, for all x.Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x\pm y)$ and $\cos(x\pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing the identities of $\tan(x+y)$, $\tan(x-y)$ $\cot(x+y)$, $\cot(x-y)$, $\sin x + \sin y$, $\sin x - \sin y$, $\cos x + \cos y$, $\cos x - \cos y$. Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.

	13	STATISTICS (NOT FOR TERM END EVALUATION)	Introduction Measures of dispersion Range Mean deviation Variance and Standard deviation	Measures of dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data
			TERM END EVALUATION (Chapters - 1, 2, 4, 8 & 3	
OCTOBER	9	STRAIGHT LINES	Introduction Slope of a Line	Brief recall of two dimensional geometry from earlier classes, Slope of a line and angle between two lines.
	9	STRAIGHT LINES (CONTD)	Various forms of the equation of a line Distance of a point from a line	Various forms of equations of a line: parallel to axis, point-slope form, slope intercept form, two-point form, intercept form. Distance of a point from a line.
NOVEMBER	11	INTRODUCTION TO THREE DIMENSIONAL GEOMETRY	Introduction Coordinate axes and coordinate planes in 3-demensional space Coordinates of a point in space Distance between two points Section formula	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points
	6	PERMUTATIONS & COMBINATIONS	Introduction Fundamental principle of counting Permutations Combinations	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of formula for npr and ncr and their connections, simple applications.
DECEMBER	7	BINOMIAL THEOREM	Introduction Binomial theorem for positive integral indices	Historical perspective, statement and proof of the binomial theorem for positive integral indices., Pascal's triangle, simple applications.

	10	CONIC SECTIONS (NOT FOR MID TERM EVALUATION II)	Introduction Sections of a cone Circle Parabola Ellipse Hyperbola MID TERM EVALUATIO	Sections of a cone: circle, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.		
			(Chapters - 13, 9, 11, 6 &			
JANUARY	12	LIMITS AND DERIVATIVES	Introduction Intuitive idea of derivatives Limits Limits of Trigonometric functions Derivatives	Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.		
	5	LINEAR INEQUALITIES	Introduction Inequalities Algebraic solutions of linear inequalities in one variable	Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.		
FEBRUARY	14	PROBABILITY	Introduction Random experiments Event Axiomatic approach to probability	Events, occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes, probability of an event, probability of 'not', 'and' and 'or' events.		
	FINAL EXAMINATION					

BAV KAKKANAD	VARSHA R, PRIYA S
BVM ELAMAKKARA	BINDHU VISHAL, SMISHA C S
BVM GIRINAGAR	BEENA V NAIR, DINI CHANDRAN
BVV THRIKKAKARA	SINDHU AYYAPPAN, ANUJA R
BVM EROOR	MINI S NAIR, RENUKA GOPINATH
BMV TRIPUNITHURA	REKHA R NAICK, MINU K JOY
BNV VELLOOR	LALITHA K, ABHILASH G NAIR

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25 CLASS XI CHEMISTRY 043

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	Some Basic Concepts of Chemistry	General Introduction: Importance and scope of Chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry	Laws of chemical combination- law of conservation of mass,law of definite proportion,lae of multiple proportionAvogadro's law,gay Lussac's law of gaseous volumes Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, average atomic massmole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry - concentration terms
JULY	Structure of atom	number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and	theory of radiations, particle nature of radiation, black body radiations, photo electric effect, spectra, Bohr's postulates for hydrogen atom, negative energy of

JULY	Classification of Elements and Periodicity in Properties	Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.	Dobererier's triads, Law of octaves, Medeleev's law, Mendeleev's periodic table, Modern periodic law. Nomenclature of elements with atomic number greater than 100, Electronic configurations and types of elements-s,p,d,f blocks, Periodic trends in properties -Physical properties-atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Periodic trends in chemical properties -Periodictiy in valence or oxidation state, Anomalous propeeties of second period elements, Peridic trends in chemical reactivity		
PORTIONS- Some	UNIT TEST - I 31/07/2024 TO 07/08/2024 PORTIONS- Some Basic Concepts of Chemistry(13),Structure of atom [Upto 2.6 - Quantum mechanical model of atom excluded.](12)Numericals(5)				
AUGUST	Chemical Bonding and Molecular Structure	Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules,	Valence bond,Lewis structure,Octet rule,limitations of octet rule,formal charge,ioinc bod,factors affecting ionic bond,lattice enthalpy,bond parameters-bond length,bond angle,bond energy,bond enthalpy,bond order,Resonance,canonical structures,resonance energy,resonance hybrid		

SEPTEMBER	Chemical Bonding and Molecular Structure	VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules(qualitative idea only), Hydrogen bond.	Repulsion between electron pairs, shapes-linear, trigonal planar, tetrahedral, trigonal bipyramid, octahedral, bent, seesaw, square pyramidal, square planar, PE curve for the H2 molecule formation, Nonexistence of He2molecule, Types of hybridization sp,sp2,sp3,dsp2,d2sp3,atomic and molecular orbitals MO energy level diagram, Hydrogen bonding- definition, reason, consequences
SEPTEMBER	Chemical Thermodynamics	Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation,	System,Surrounding,Open,Closed,Isolated system,urroundings, work, heat, energy, extensive and intensive properties, state functions,Reversible,Irrevrsible process,Isothermal,abdiabatic,isobaric,isochoric processes,First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation
OCTOBER	Chemical Thermodynamics	Enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction)Introduction of entropy as a state function, Gibb's energy change for spontaneous and nonspontaneous processes, criteria for equilibrium.Third law of thermodynamics (brief introduction).	Enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Entropy, Second law of Thermodynamics, Gibb's energy change for spontaneous and non-spontaneous processes, criteria for equilibrium. Third law of thermodynamics

TERM END EVALUATION 18/10/2024 TO 30/10/2024

Portions - Some Basic Concepts of Chemistry(15), Structure of atom(18), Classification of Elements and Periodicity in Properties(17), Chemical Bonding and Molecular Structure(20) Numericals(7)

	Periodicity in Propertion	es(17), Chemical Bonding and Molecular Structure (20))Numericals(7)
NOVEMBER	Equilibrium	Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, hydrolysis of salts (elementary idea), buffer solution, Henderson Equation, solubility product, common ion effect (with illustrative examples).	Reversible process, physical and chemical equilibrium, law of mass action, law of equilibrium, expression of equilibrium constant, characteristics of equilibrium constant, factors affecting equilibrium constant - pressure, temperature, concentration, presence of catalyst. Lechatelier's principle Electrolyte, strong and weak electrolyte, Ostwald's dilution law, degree of ionisation, poly basic acids, ka value acid strength, pH,pOH,Pkw, hydrolysis of salts, buffer solution, buffer action, Henderson equation, solubility, solubility product, common ion effect
DECEMBER	Redox reactions	Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.	Concept of oxidation and reduction, redox reactions, oxidation number, types of redox reaction, layer test, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.

Organic Chemistry -Some Basic Principles and Techniques General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocation carbanions, electrophiles and nucleophiles, types of organic reactions.	Tetravalency of carbon, classification of organic compounds, IUPAC naming, functional group, homologous series, inductive effect, electromeric effect, resonance and hyper conjugation or no bond resonance, Stabilty of cabocations, free radicals, classification of intermediates ito electrophiles and nucleophiles, Purification methods - crystallisation, sublimation, distillation, fractional distillation, distillation under reduced pressure, steam distillation, Lassaigne's test, Dumas method, Kjeldahl's method
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3/01/2025 TO 10/01/2025

 $Portions-Chemical\ Thermodynamics (10), Equilibrium (13)$

FEBRUARY	Hydrocarbons	Classification of Hydrocarbons Aliphatic Hydrocarbons: Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemicalreactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water,hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.	Hydrocarbons, classification of hydrocarbons, IUPAC nomenclature, physical and chemical properties, catalytic reduction, free radical halogenation, combustion, reforming , aromatisations, pyrolysis, Markovnikov's law, peroxide effect, ozonlysis, polymerisation, acidic character of alkynes, addition reactions, resonance, aromticity, Huckel's rule, electrophilic substitution, Arenium ion, adddtion reactions by benzene, directing influence, Carcinogenicity and toxicity
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FINAL EXAMINATION

17/02/2025 TO 28/02/2025 (ALL PORTIONS :40% of TERM I & 60% of TERM II)

Some basic concepts of chemistry - 6 marks, Structure of atom - 7 marks, Classification of elements and periodocity in properties- 7 marks, UNIT Chemical bonding and molecular structure - 8 marks, Chemical thermodynamics - 5 marks, Equilibrium- 6 marks, Redox reactions- 7 marks, Organic chemistry - Some basic principles and techniques - 11 marks &

Hydrocarbons- 13 marks

BHARATIYA VIDYA BHAVAN, KOCHI STD XI ZOOLOGY YEAR PLAN FOR THE ACADEMIC YEAR 2024-25			
MONTH	TOPIC		
JUNE	CHAPTER 4 ANIMAL KINGDOM		
JULY	CHAPTER 4 ANIMAL KINGDOM CONTD		
	CHAPTER 7 STRUCTURAL ORGANISATION IN ANIMALS		
	UNIT TEST -I (JULY 31 st-AUGUST 7th) CHAPTER 4 ANIMAL KINGDOM AND CHAPTER 7 STRUCTURAL ORGANIZATION IN ANIMALS		
AUGUST	CHAPTER 8 CELL- THE UNIT OF LIFE		
SEPTEMBER	CHAPTER 9 BIOMOLECULES		
OCTOBER	CHAPTER 14 BREATHING AND EXCHANGE OF GASES		
	TERM END EVALUATION 1 (OCT 18 th -30 th) CHAPTER 4,7 AND 8		
NOVEMBER	TO SELVENTING AND CIRCUITATION		
DECEMBER	CHAPTER 16-EXCRETORY PRODUCTS AND THEIR ELIMINATION CONTINUES CHAPTER 17-LOCOMOTION AND MOVEMENT		

JANUARY	UNIT TEST II -JANUARY (3 rd -10 th) (CHAPTER 9 - BIOMOLECULES, CHAPTER- 14 BREATHING AND EXCHANGE OF GASES
	CHAPTER 18 - NEURAL CONTROL AND COORDINATION CHAPTER-19 CHEMICAL COORDINATION AND INTEGRATION
FEBRUARY	REVISION FINAL EXAMINATION FEB 17 th - 28 th , FULL PORTIONS

NAME OF THE SCHOOL	NAME OF THE TEACHER AND SIGNATURE
BVM, ELAMAKKARA	GEETHA SHYAMSUNDER
BVM, GIRINAGAR	INDUP To I
BVM, EROOR	SINI MOL P
BAV, KAKKANAD	SOUMYAKS Rauls
	SREEKALA KRISHNADAS Sakle
DIV, VELLOR	DHANYA K C DWY: O
DMIT TEDITORING	NIVYA MOL

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

STD XI - BOTANY - YEAR PLAN

2024-2025

MONTH	TOPIC	SUB TOPICS	CONCEPTS
JUNE	1.DIVERSITY IN THE LIVING WORLD 2.BIOLOGICAL CLASSIFICATION	1.1 What is 'Living'? 1.2 Diversity in the Living World 1.3 Taxonomic Categories [Taxonomical Aids not included] 2.1 Kingdom Monera 2.2 Kingdom Protista 2.3 Kingdom Fungi	Characteristics of Living things. Taxonomic Hierarchy Binomial nomenclature. * Salient features of five kingdom classification *Salient features of five major kindom with examples
JULY	2.BIOLOGICAL CLASSIFICATION CONTD 3. PLANT KINGDOM	2.4 Kingdom Plantae 2.5 Kingdom Animalia 2.6 Viruses, Viroids and Lichens 3.1 Algae 3.2 Bryophytes 3.3 Pteridophytes	*Salient features of plant kingdom. *Salient features of various divisions of plant kingdom with examples.
AUGUST	3. PLANT KINGDOM CONTD (Angiosperms, Plant life cycle, Alternation of generation NOT included) 5.MORHOLOGY OF FLOWERING PLANTS. Description of one family Solanaceae (To be dealt along with the relevant experiments of the practical syllabus	3.4 Gymnosperm 3.5 Angiosperm [upto Dicotyledons and Monocotyledons] 5.1 The Root 5.2 The Stem 5.3 The Leaf 5.4 The Inflorescence 5.5 The Flower	Taproot and fibrous root system. Parts of root.

UNIT TEST I (JULY 31st TO AUGUST 7th] Portions Living world , Biological classification , Plant Kingdom CHAPTERS 1,2 & 3

SEPTEMBER	5.MORHOLOGY OF FLOWERING PLANTS. CONTD	5.6 The Fruit 5.7 The Seed 5.8 Semi-technical Description of a Typical Flowering Plant. 5.9 Description of Some Important Families.5.9.2 SOLANACEAE Included [5.9.1 & 5.9.3 not included]	Parts of fruits Drupe Parthenocarpic fruits Monocotyledonous and Dicotyledonous seed Floral symbols, diagram and Floral formula "Description of Vegetative and floral features of Plan Family
	6.ANATOMY OF FLOWERING PLANTS.	6.1 The Tissues 6.2 The Tissue System	SOLANACEAE " "Meristematic tissues Permanent tissues Simple tissues Complex tissues "
остовек	6.ANATOMY OF FLOWERING PLANTS.CONTD	6.3 Anatomy of Dicotyledonous and Monocotyledonous Plants. [6.4 Secondary Growth not included]	Epidermal tissue system Ground tissue system Vascular tissue system
	10.CELL CYCLE AND CELL DIVISION.	10.1 Cell Cycle 10.2 M Phase 10.3 Significance of Mitosis	Various stages of mitosis and its significance.
TERM E	ND EVALUATION I [OCTOBER 18th TO OCTOBER 30th]	Portions Living world , Biological classification , Plant Kin CHAPTERS 1,2,3 & 5	gdom, Morphology of flowering plants.
NOVEMBER	10.CELL CYCLE AND CELL DIVISION.CONTD	10.4 Meiosis 10.5 Significance of Meiosis 11.1 What do we Know? 11.2 Early Experiments	Various stages of meiosis and its significance. *Early experiments in Photosynthesis. Structure of chloroplast.
	11. PHOTOSYNTHESIS IN HIGHER PLANTS.	11.3 Where does Photosynthesis take place? 11.4 How many Pigments are involved in Photosynthesis? 11.5 What is Light Reaction? 11.6 The Electron Transport	Action and Absorption spectrum in Photosynthesis. Light Reaction-Cyclic and Non cyclic photophosphorylation. Chemiosmotic hypothesis.
DECEMBER	11.PHOTOSYNTHESIS IN HIGHER PLANTS. CONTD	11.7 Where are the ATP and NADPH Used? 11.8 The C4 Pathway 11.9 Photorespiration 11.10 Factors affecting Photosynthesis	Kranz Anatomy-C4Pathway Photorespiration Factors affecting Photosynthesis-Law of limiting factors
ACCESTIBLE V	12RESPIRATION IN PLANTS	12.1 Do Plants Breathe? 12.2 Glycolysis 12.3 Fermentation 12.4 Aerobic Respiration	Cellular respiration Steps of glycolysis. Major pathways of anaerobic respiration The citric acid cycle.

	12RESPIRATION IN PLANTS. CONTD	12.5 The Respiratory Balance Sheet 12.6 Amphibolic Pathway 12.7 Respiratory Quotient	The Respiratory Balance Sheet Amphibolic Pathway Respiratory Quotient
JANUARY	13. PLANT GROWTH AND DEVELOPMENT.	13.1 Growth 13.2 Differentiation, Dedifferentiation and Redifferentiation 13.3 Development [13.5 & 13.6 Photoperiodism & Vernalisation not included]	Characteristics of growth. Phases of growth. Growth Rates. Conditions of Growth Plant Growth Regulators.
JANUARY	PORTIONS C	UNIT TEST II [JANUARY 3rd TO JANUARY 10 th] HAPTERS 6 & 10 Anatomy of flowering plants and Cell cyc	Role of various Growth Regulators -Auxin, Gibberlin,
FEBRUARY	13. PLANT GROWTH AND DEVELOPMENT.	13.4 Plant Growth Regulators NATION [FEBRUARY 17 th TO FEBRUARY 28 th]	Cytokinin,Ethylene and Abscissic acid
	FINAL EXAMIN FULL PO	DTIONS CHAPTERS 1,2,3,3,0,10,11,11	WIDE
	NAME OF THE TEACHER	SIGNA	URE
NAME OF THE SCHOOL	SUMI U MENON	Sn m'	
BVM, ELAMAKKARA		Soll	
BVM, GIRINAGAR	SAVITRI VISWAKUMAR	200	
BVM, EROOR	RADHIKA R	Acelon	
BAV, KAKKANAD	SHEEBA GEORGE		
BVV, THRIKKAKARA	MAYA DEVI	Leenae	
BNV, VELLOOR	SEEMA C	(1) A 29 1	
BMV, TRILPUNITHURA	MEERA VENUGOPAL	(2)	

		BHARATIYA VIDYA	BHAVAN, KOCHI	
Health The second	STD XI	ENGLISH - YEAR PLAN FOI	R THE ACADEMIC YEAR 2024-25	
MONTH	TOPIC / SUB-TOPIC		GRAMMAR	WRITING
	HORNBILL	SNAPSHOTS		
JUNE (21 days)	L1. The Portrait of a Lady P1. A Photograph	L1. The Summer of the Beautiful White Horse	G1 Tenses	W1 Poster
JULY (24 days)	P2. The Laburnum Top L2. We're Not Afraid to Die if We Can All Be Together (Not included for Unit Test 1)		G2. Sentence Reordering	
		UNIT TEST I (31/07/	2024 - 07/08/2024)	
AUGUST (20 days)	L3. Discovering Tut: the Saga Continues			R1. Note Making W2. Speech
SEPTEMBER (16 days)	P3. The Voice of the Rain	L2, The Address		W3. Advertisements (Classifieds) i. Situation Wanted/vacant ii. For sale/ To Let
		TERM END EVALUATION	(18/10/2024 - 30/10/2024)	
OCTOBER (22 days)	P4. Childhood	L3. Mother's Day	G3. IF Clauses	
NOVEMBER (24 days)		L4. Birth	G2. Sentence Reordering	W3. Advertisements (Classifieds) iii. Automobile iv. Missing v. Lost and Found vi. Educational Institution vii. Travel and Tours
DECEMBER (17 days)	L4. The Adventure P5. Father to Son			W4. Debate
		UNIT TEST II (03/01/2	1025 - 10/01/2025)	
JANUARY (24 days)	L5. Silk Road	L5. The Tale of Melon City	G4. Transformation of Sentences (Active / passive)	
FEBRUARY (22 days)			Revision	
		FINAL EXAMINATION (17	7/02/2025 - 28/02/2025)	
NAME OF THE TEACHER	NAME OF THE SCHOOL	SIGNATURE		
INI M DNIA P M	Bhavan's Vidya Mandir, Elamakkara			
EVIPS	Bhavan's Vidya Mandir, Girinagar			
MITHA LAKSHMI R USHPA K	Bhavan's Newsprint Vidyalaya, Velloor			
/OIII A A	Bhavan's Adarsha Vidyalaya, Kakkanad			

LAKSHMY GOPINATH	Bhavan's Varuna Vidyalaya, Tarikkakara	
	Bhavan's Vidya Mandir, Eroor	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA **INFORMATICS PRACTICES**

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25 CLASS: XI

MONTH	TOPIC	SUB-TOPICS	CONCEPTS

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	Unit: 2 Introduction to Python	Basics of Python programming, execution modes: - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, mutable and immutable data types, statements, expression evaluation. comments, input and output statements, data type conversion, debugging.	Python IDE, Python Tokens, Data types, Expressions, Statements,Input and Output, Debugging
JULY	Unit: 2 Introduction to Python	Control Statements: if-else, if-elif- else, while loop, for loop	Concept of conditional statement Concept of Iteration
AUGUST	Unit: 2 Introduction to Python	Control Statements: for loop Lists: list operations - creating, initializing, traversing and manipulating lists	Concept of Iteration Concept of List

SEPTEMBER	Unit: 2 Introduction to Python	list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()	Concept of List
OCTOBER	Unit: 2 Introduction to Python	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements. Dictionary: dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()	Concepts of Dictionary: Key-value pair Concept of Dictionary methods and built-in functions.
NOVEMBER	Unit 1 Introduction to Computer System	Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.	Concepts of Computer System

DECEMBER	Unit 3: Database concepts and the Structured Query Language	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key, Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER	Concept of Database and Structured query language,Data types in MySQL, SQL for data definition
JANUARY	Unit 3: Database concepts and the Structured Query Language	Data Query: INSERT,SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: DELETE, UPDATE	Data insertion, Data Updation and Deletion

FEBRUARY	Unit 4: Introduction to the Emerging Trends	Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	Artificial Intelligence, Big data and its characteristics, IOT, Cloud Computing and Cloud Services
S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BVM, ELAMAKKARA		
2	BVM, EROOR		
3	BVV, THRIKKAKARA		
4	BVM, GIRINAGAR		
5	BAV, KAKKANAD		
6	BMV, TRIPUNITHURA		
7	BMV, VELLOOR		

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

CLASS XI - BUSINESS STUDIES

MON TH	TOPIC	SUB-TOPICS	CONCEPTS
	EVOLUTION AND FUNDAMENTALS OF BUSINESS	1.1 Introduction	History of Trade and Commerce in India, Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy.
JUNE		1.2 Business	Meaning of business with special reference to economic and non- economic activities, characteristics of business, comparison of business, profession and employment.
		1.3 Classification of business activities	Industry and commerce, Industry- types: Primary, secondary, tertiary: Meaning and subgroups, Commerce - Trade and Auxiliaries to trade.
		1.4 Objectives of business	Objectives of business- Economic & Social, Examine role of profit in business.
		1.5 Business Risk	Concept, nature and causes
		2.1 Introduction	Introduction
JULY JULY		2.2 Sole proprietorship	Concept, merits and limitation
	FORMS OF BUSINESS	2.3 Joint Hindu Family Business	Concept
	ORGANISATION	2.4 Partnership	Concept, types, merits and limitation of partnership, Registration of a partnership firm, Partnership Deed.Types of partners.

		2.5 Cooperative society	Concept, merit and limitation and types of co- operatives.
		2.6 Joint Stock Company	Concept, merits, and limitations, types- private, public and One person company. Comparison of types of companies. Formation of a company - stages, important documents to be used in formation of a company.
		2.7 Choice of form of business organisation	Distinguish between various forms of business organisations. Choice of form of business organisation
	The summer of the second second	MID TERM EVALUATION - I (25 M	
		3.1 Introduction	Introduction
		3.2 Private Sector and Public sector	Concept
AUGUST	PUBLIC, PRIVATE AND GLOBAL ENTERPRISES	3.3 Forms of Public Sector Enterprises.	Departmental Undertakings, Statutory Corporations and Government Company. Features, merits and limitations of different forms of public sector enterprises
		3.5 Global Enterprises	Meaning and features.
		3.6 Joint Ventures	Meaning and features.
	after of the state of the	3.7 Public, Private partnership	Meaning and features.
14	The state of the s	4.1 Introduction	Introduction
	the second of th	4.2 Nature of Services	Nature of services
SR		4.3 Types of business services	Meaning and types
SEPTEMBER	BUSINESS SERVICES	4.4 Banking	Types of bank accounts, banking services - Bank Draft, Bank overdraft, cash credit, E- banking.
SEPT		4.5 Insurance	Principles and types- Life, Health, Fire and Marine - Meaning.
	EMERGING MODES OF	4.6 Communication services	Postal services- Mail, Registered post, parcel, speed post, courier.
	BUSINESS	5.1 Introduction	Introduction

		5.2 E-business	Concept and scope.Distinguish between E-business and Traditional business
		5.3 Benefits of E-Business	Benefits of E-business
	STREET, CHESTON SET LINES.	6.1 Introduction	Introduction
-4	A REPORT OF THE PARTY OF THE PA	6.2 Concept of Social Responsibility	Concept
OCTOBER	SOCIAL RESPONSIBILITIES	6.3 Arguments for social responsibility	Case of social responsibilty
OB	OF BUSINESS AND	6.4 Social responsibilty towards different	Social responsibilty towards different interest
E	BUSINESS ETHICS	interest groups	groups
ŏ	Desire Entres	6.5 Business and environmental	
	Consideration and the second	protection	Role of business in environment protection
		6.6 Business Ethics	Concept and elements
		TERM END EVALUATION (2:	5 MARKS)
		7.1 Introduction	Introduction
1 - 7		7.2 Meaning, nature and significance of	Meaning, nature and significance of business
		business finance	finance
NOVEMBER	SOURCES OF BUSINESS FINANCE	7.3 Sources of finance	Owners' funds- equity shares, preference share, retained earnings. Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD) (meaning only). Distinguish between owner's funds and borrowed funds
	SMALL BUSINESS AND ENTERPRISES	8.1 Entrepreneurship Development	Concept, Characteristics and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship.
		8.2 Small scale enterprises	Meaning, MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act)

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	Bearing State of the State of t	8.3 Role of small business in India with special reference to rural areas	Role of small business in India with special reference to rural areas
DECEMBER	INTERNAL TRADE	8.4 Government schemes and agencies for small scale industries 9.1 Internal trade 9.2 wholesale trade 9.3 Retail Trade	National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas Meaning and types Services rendered by a wholesaler. Services rendered by a retailer, Types of retailtrade-Itinerant and small scale fixed shops retailers, Large scale retailers-Departmental stores, chain stores and Mail order business – concept and features.
	MID TEH	9.4 Goods and Services Tax RM EVALUATION- II (25 MARKS)	Concept and features.
JANUARY/ FEBRUARY	INTERNATIONAL TRADE	10.1 International Trade 10.2 Export Trade 10.3 Import Trade 10.4 Documents involved in International Trade	Concept, benefits and scope. Meaning, Procedure and objectives. Meaning, Procedure and objectives. Indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP)
		10.5 World Trade Organisation FINAL EVALUATION (80 MARKS	Meaning and all

SEEN AND SIGNED:

NAME OF THE SCHOOL	NAME OF THE TEACHER	SIGNATURE
BVM, ELAMAKKARA	SHYLAJA RAJESH	State.
BVM, EROOR	ANITHA V, RENUKA	Remile Remile
BVM, GIRINAGAR	DEEPA V MENON	Deck (6/4/24)
BVV, THRIKAKKARA	VIJAYALAKSHMI B	The state of the s
BMV, THIRUVAMKULAM	SAJITH S	
BNV, VELLOOR	SHERRY DEEPAK	
BAV, KAKKANAD	DEEPA VARGHESE	15 m