	BHARAT	IYA VIDYA BHAVAN, KOCHI KENDRA	
	STD X	II – BOTANY – YEAR PLAN(2024-25)	
		2024-2025	
MONTH	TOPIC	SUB TOPICS	CONCEPTS
MARCH/ APRIL	4.Principles of Inheritance and variation	 4.1 Mendel's Laws of Inheritance 4.2 Inheritance of One Gene 4.3 Inheritance of Two Genes 4.4 Sex Determination 	Hybridization experiments-Monohybrid cross and Dihybrid cross Law of segregation,Law of Dominance,Independen assortment Deviations from Mendelian pattern of inheritance Chromosomal theory of inheritance' Sex determination mechanisms
JUNE	4.Principles of Inheritance and variation (Contd.)	4.5 Mutation 4.6 Genetic Disorders	Pedigree analysis Mendelian disorders Chromosomal disorders
	FIRS CHAPTER 4: Princip	T UNIT TEST [JUNE 10th TO 15 th] les of Inheritance and variation -Upto 4.6.2 (included)
JUNE/JULY	5.Molecular basis of inheritance	 5.1 The DNA 5.2 The Search for Genetic Material 5.3 RNA World 5.4 Replication 5.5 Transcription 5.6 Genetic Code 5.7 Translation 5.8 Regulation of Gene Expression 	Structure of Polynucleotide Chain Packaging of DNA Helix Transforming Principle,Biochemical Characterisation of Transforming Principle The Genetic Material is DNA Properties of Genetic Material (DNA versus RNA) The Experimental Proof for Replication The Machinery and the Enzymes Transcription Unit Mutations and Genetic Code tRNA- the Adapter Molecule The Lac operon
AUGUST	5.Molecular basis of inheritance(Contd.)	5.9 Human Genome Project,Rice Genome Procet 5.10 DNA Fingerprinting	Goals of HGP, Methodologies, Salient Features of Human Genome and Rice Genome Project Applications and Future Challenges Repetitive DNA, Satellite DNA, Polymorphism,

SEPTEMBER	1-Sexual Reproduction in Flowering Plants	 1.1 Flower – A Fascinating Organ of Angiosperms 1.2 Pre-fertilisation : Structures and Events 1.3 Double Fertilisation 1.4 Post-fertilisation: Structures and Events 1.5 Apomixis and Polyembryony 	Stamen, Microsporangium, and Pollen Grain The Pistil, Megasporangium, and Embryo Sac Pollination Double Fertilization Post-Fertilization: Structures and Events Apomixis and polyembryony
OCTOBER	9-Biotechnology Principles and Processes	 9.1 Principles of Biotechnology 9.2 Tools of Recombinant DNA Technology 9.3 Processes of Recombinant DNA Technology 	Genetic engineering,Bioprocess engineering, recombinant DNA ,gene cloning and gene transfer, restriction endonuclease Gel electrophoresis Cloning Vectors Competent Host (For Transformation with Recombinant DNA) Processes of Recombinant DNA Technology
OCTOBER	10-Biotechnology and its Applications	10.1 Biotechnological Applications in Agriculture 10.2 Biotechnological Applications in Medicine	Green Revolution, tissue culture, somatic hybridisationPest Resistant Plants Genetically Engineered Insulin Gene Therapy Molecular Diagnosis
NOVEMBER	TERM END EVAL 1-Sext 4.Pri 5 9-Biotechnology Principles a 10-Biotechnology and its Applications	UATION [OCTOBER 18th TO OCTOBER 30th] CHAPTERS 1, 4, 5 and 9 nal Reproduction in Flowering Plants nciples of Inheritance and variation 5.Molecular basis of inheritance and Processes (9.1 TO 9.2.2) - 9.2.2 onwards NOT inc 10.3 Transgenic Animals	luded Transgenic Animals Ethical Issues Regarding Transgenic Animals
NOVEMBER	(Contd.) FIRST MODEL EXAM	10.4 Ethical Issues INATION [DECEMBER 2nd TO DECEMBER 13th CHAPTERS 1.4.5.0 and 10	Eurical issues Regarding Transgenic Animais
×	SECOND MODE	CL EXAMINATION [JANUARY 3rd TO 15 th] CHAPTERS 1,4,5,9 and 10	
NAME OF THE SCHOOL	NAME OF THE TEACHER	SIGN	ATURE
BVM, ELAMAKKARA	SUMI U MENON	Bang	
BVM, GIRINAGAR	SAVITRI VISWAKUMAR	Selfer	
BVM, EROOR	RADHIKA R	Bland	
BAV, KAKKANAD	SOUMYA K S	Berny	

1.1.1.1.1.1.1	BHAR	ATIYA VIDYA BHAVAN, KOCHI I	KENDRA
		STD XII – ZOOLOGY – YEAR PLA	N
	GRANE - PARALE PROPERTY	2024-2025	
MONTH	TOPIC	SUB TOPICS	CONCEPTS
MARCH - APRIL	CHAPTER 2 HUMAN REPRODUCTION	2.1 Male reproductive system2.2 Female reproductive system2.3 Gametogenesis	Structure and functions of male reproductive organs Structure and functions of female reproductive organs Spermatogenesis and oogenesis,
JUNE HUMAN REPRODUCTION contd		 2.4 Menstrual cycle 2.5 Fertilization and implantation 2.6 Pregnancy and embryonic development 2.7 Parturition and lactation 	Hormonal control, structure of sperm , structure of ovary Various events during menstrual cycle, hormonal control, menstrual hygiene Structure of ovum , sex determination, cleavage Formation of placenta , placental hormones , milestones of embryonic development Foetal ejection reflex , significance of colostrum
FIRST UN	IT TEST (JUNE 10-15 F) CHAPTER 2. HUMAN REPRODUC ERTILIZATION AND IMPLANTATION	TION 2.1 TO 2.5 (EXCLUDING 2.5
		3.1 Reproductive health - problems and	Need for reproductive health
JUNE	CHAPTER 3 REPRODUCTIVE HEALTH	strategies 3.2 Population explosion and birth control 3.3 Medical termination of pregnancy 3.4 Sexually transmitted diseases	IMR, MMR, contraceptive methods Why MTP is legalised? Types of STDs, symptoms and preventive measures ART - IVF, ZIFT, GIFT

		6.1 Origin of life	Big bang theory, formation of universe
		6.2 Evolution 0f life forms - a theory	Different theories on origin of life
		6.3 What are the evidences of evolution	Paleontology, comparative anatomy,
		? 6.4 What is	embryology, molecular evidences
		adaptive radiation ? 6.5	Darwin's finches, placental mammals
		Biological evolution	and marsupials of australia
		6.6 Mechanism of evolution	Branching descent and natural selection
	CULA DEED (6.7 Hardy-weinberg 6.8	Hugo de Vries theory and Darwin's
JULY	CHAPTER 6	A brief account of evolution principle	theory on evolution
	EVOLUTION	6.9 Origin and evolution of man	Hardy Weinberg equilibrium, founder
i i i i i i i i i i i i i i i i i i i	A attraction for the fact	anno li la contra la contra la contra la contra la contra la contra de	effect, opertional techniques of natural
	and the second second	a second and a second	selection
A ALL STREET	Contraction in Party	and the second second second second	Evolution of plants and animals through
	and an an an and a strength		geological periods
	The fail will some it has	and the second	Different evolutionary stages of man
	maning succession in the		
SECOND UNI	T TEST (JULY 31 - 4	AUGUST 7) CHAPTER 2 HUMAN REP	RODUCTION (FROM 2.5 TILL THE

END OF THE CHAPTER) AND CHAPTER 3 REPRODUCTIVE HEALTH

AUGUST	CHAPTER 7 HUMAN HEALTH AND DISEASE	 7.1 Common Diseases in Humans 7.2 Immunity 7.3 AIDS 7.4 Cancer 7.5 Drugs and Alcohol Abuse 	Source, symptoms, target site and mode of transmission of common diseases in humans Innate and acquired, active and passive, vaccination, allergies, auto immunity and immune system Replication of retro virus, its transmission and prevention Types, causes, detection, diagonosis and treatment Classification of drugs, their source, target site and effect on our body Adolescence and drug abuse, addiction and dependence, effects of drug, alcohol abuse, prevention and control
AUGUST	CHAPTER 8 MICROBES IN HUMAN WELFARE	 8.1 Microbes in Household Products 8.2 Microbes in Industrial Products 8.3 Microbes in Sewage Treatment 8.4 Microbes in Production of Biogas 8.5 Microbes as Biocontrol Agents 8.6 Microbes as Biofertilisers 	Microbes in food processing Fermented beverages, antibiotics, bioactive molecules Primary and secondary treatment of sewage Study of biogas plant and biogas production Biological control of pests and diseases Organic farming , role of mycorrhizae and cyano bacteria
SEPTEMBER	CHAPTER 11 ORGANISMS AND POPULATIONS	11.1 Populations	Population attributes, growth, growth models, life history variation, population interactions

	BHARATIYA VIDYA BHAVAN, KOCHI			
	YEAR PLAN FOR THE ACADEMIC YEAR 2024- 2025			
		Std. XII - Pl		
MONTH	TOPIC	SUB-TOPICS	CONCEPTS	
APRIL	Chapter–1: Electric Charges and Fields	Electric charges, Electric Field, Electric Flux, Gauss's law	Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).	
JUNE	Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity	Electric potential & potential energy, equipotential surfaces, Conductors and insulators, Dielectrics and electric polarization Capacitors and capacitance Electric current, drift velocity, Ohm's law, temperature dependence of resistance, Internal resistance and emf of acell, Kirchhoff's rules, Wheatstone bridge.	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).Electric current, flow of electric charges velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	
FIRST UNIT TEST (25marks) Electric Charges and Fields -17 MARKS, Electrostatic Potential and Capacitance) - 8 MARKS(includingpotential due to a dipole)				

	Chapter-4:	Biot - Savart law and its applications,	Force on a current-carrying conductor in a uniform magnetic field, force		
	Moving Charges	Ampere's law and its applications,	between two parallel current-carrying conductors-definition of ampere,		
	and Magnetism(continues)	force on a moving charge in uniform magnetic	torque experienced by a current loop in uniform magnetic field; Current loop		
		and electric fields.	as a magnetic dipole and its magnetic dipole moment, moving coil		
	Chapter-5:	Force on a current-carrying conductor in a uniform	galvanometer- its current sensitivity and conversion to ammeter and		
	Magnetism and Matter	magnetic field, force between two parallel	voltmeter.		
		current-carrying conductors,			
		torque experienced by a current loop in	Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment		
		uniform magnetic field, moving coil	only), magnetic field intensity due to a magnetic dipole (bar magnet) along		
		galvanometer	its axis and perpendicular to its axis (qualitative treatment only), torque on a		
JULY		9	magnetic dipole (bar magnet) in a uniform magnetic field (qualitative		
		Bar magnet, magnetic field intensity due to	treatment only), magnetic field lines.		
		a magnetic dipole (bar magnet).	Magnetic properties of materials- Para-, dia- and ferro -		
		torque on a	magnetic substances with examples. Magnetization of materials.		
		magnetic dipole.	effect of temperature on magnetic properties.		
		Magnetic properties of materials. Magnetization			
		of materials, effect of temperature on			
		magnetic properties.			
		8 I I			
	SECOND UNIT TEST (25marks) Electrostatic Potential and Capacitance (from equipotential surface) - 8 MARKS, Current Electricity -10 MARKS, Moving Charges and Magnetism (including Ampere circuital law and its applications.) - 7 MARKS				
	Chapter-6:	Electromagnetic induction;	Electromagnetic induction: Faraday's laws, induced EMF and current:		
	Electromagnetic Induction	Lenz's Law, Self and mutual induction.	Lenz's Law, Self and mutual induction.		
AUGUST	Chapter–7: Alternating Current	Alternating currents, LCR series circuit (phasors only), AC generator, Transformer.	Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current.		
1	1		AC generator, mansionnel.		

SEPTEMBER	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics	Basic idea of displacement current, Electromagnetic waves, Electromagnetic spectrum Reflection of light, spherical mirrors, refraction of light, refraction at spherical surfaces, lenses, , lens maker's formula, refraction of light through a prism. Optical instruments Wave front and Huygen's principle, Interference, diffraction due to a single slit.	Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses. Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.
			Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).
OCTOBER	Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei	Dual nature of radiation, Photoelectric effect, Einstein's photoelectric equation, de-Broglie relation. Alpha-particle scattering experiment; Bohr model of hydrogen atom. Composition and size of nucleus, nuclear force, mass defect & binding energy per nucleon , nuclear fission, nuclear fusion	 Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation. Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only). Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.
TERM END EVALUATION Electric Charges and Fields & Electrostatic potential and capacitance - 15 MARKS, Current Electricity - 8 MARKS, Moving Charges and Magnetism and Matter - 15 MARKS, EMI & AC - 15 MARKS, EM Waves- 5 MARKS, Ray Optics (upto Optical instruments)- 12 MARKS			

NOVEMBER	Chapter–14: Semiconductor Electronics Materials, Devices and Simple Circuits	Energy bands in conductors, Intrinsic and extrinsic semiconductors-, p-n junction, application of junction diode.	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.
DECEMBER	FIRST MODEL EXAM (ALL CHAPTERS)		
JANUARY	SECOND MODEL EXAMINATION (ALL CHAPTERS)		

NAME OF THE SCHOOL	NAME OF THE TEACHER	SIGNATURE
BVM ELAMAKKARA	JAYASREE L	
BVV THRIKKAKARA	LEENA P P	
BNV VELLOOR	BINDU VISWANATH	
BVM GIRINAGAR	SWAPNA PILLAI	
BAV KAKKANAD	MANJINI P	
BVV EROOR	KALA S PILLAI	
BMV , TRIPUNITHURA	ASHA S	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA YEAR PLAN FOR THE ACADEMIC YEAR 2024-25 STD -XII APPLIED MATHEMATICS (241)

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	ALGEBRA	Matrices and types of	The entries, rows and columns of matrices, Present a set of data
	-MATRICES	matrices, Equality of	in a matrix form, Examples of transpose of matrix, A square
		matrices, Transpose	matrix as a sum of symmetric and skew symmetric matrix,
		of a matrix,	Observe that diagonal elements of skew symmetric matrices are
		Symmetric and Skew	always zero, Addition and Subtraction of matrices,
		symmetric matrix,	Multiplication of matrices (It can be shown to the students that
		Algebra of Matrices	Matrix multiplication is similar to multiplication of two
		_	polynomials) Multiplication of a matrix with a real number
APRIL	ALGEBRA-	Determinants,	Singular matrix, Non-singular matrix, AB = A B , Simple
	DETERMINANTS	Inverse of a matrix,	problems to find determinant value
		Solving system of	Inverse of a matrix using:
		simultaneous	a) cofactors
		equations using	If A and B are invertible square matrices of same size,
		matrix method,	i) $(AB)^{-1}=B^{-1}A^{-1}$
		Cramer's rule	ii) $(A^{-1})^{-1} = A$
			iii) $(A^{T})^{-1} = (A^{-1})^{T}$
			Solution of system of simultaneous equations up to three
			variables only
			(non-homogeneous equations)
JUNE	CALCULUS -	Higher Order	
	DIFFERENTIATION	Derivatives,	Simple problems based on higher order derivatives
	AND ITS	Application of	Differentiation of parametric functions and implicit functions (up
	APPLICATIONS	Marginal Cost and	to 2 rd order), To find the rote of change of quantities such as area and valume.
		Marginal Revenue	with respect to time or its dimension
		using derivatives	Gradient / Slope of tangent and normal to the curve
		Increasing	The equation of the tangent and normal to the curve (simple
		/Decreasing Functions	problems only),

		Maxima and Minima	Examples related to marginal cost, marginal revenue, etc. Simple problems related to increasing and decreasing behaviour of a function in the given interval A point $x= c$ is called the critical point of f: if f is defined at c and f'(c)=0 or f is not differentiable at c To find local maxima and local minima by: i)First Derivative Test ii) Second Derivative Test Contextualized real life problems
UNIT TEST-1 10/0	5/24 TO 15/6/24 MATE	RICES, DETERMINAN' INCLUDE	TS (DIFFERENTIATION AND ITS APPLICATIONS NOT D)
	CALCULUS - DIFFERENTIATION AND ITS APPLICATIONS- CONTINUED,		
	DISTRIBUTIONS	Probability Distribution Mathematical Expectation	Definition and example of discrete and continuous random variable and their distribution
		Variance Binomial Distribution Poison Distribution Normal Distribution	The expected value of discrete random variable as summation of product of discrete random variable by the probability of its occurrence
			Questions based on variance and standard deviation
JULY			Characteristics of the binomial distribution Binomial formula:

			$P(r) = {}^{n}C_{r}p^{r}q^{n\cdotr}$
			Where n = number of trials
			P = probability of success
			q = probability of failure
			Mean =np
			Variance = npq
			Standard Deviation = \sqrt{npq}
			Characteristics of Poisson Probability distribution
			Poisson formula:
			$P(x) = \frac{\lambda^x e^{-\lambda}}{x!}$
			Mean = \tilde{V} ariance = λ
			Characteristics of a normal probability distribution
			Total area under the curve = total probability = 1
			Standard Normal Variate:
			$Z = x - \mu/\sigma$ where
			x = value of the random variable
			$\mu = mean$
			$\sigma = S.D.$
UNIT TEST-2(31/7/2	24 TO 07/08/24) DIFFE	RENTIATION AND IT	S APPLICATIONS (PROBABILITY DISTRIBUTIONS NOT
	<i>,</i>	INCLUDED FOR	EXAM)
	PROBABILITY		
	DISTRIBUTIONS-		
AUGUST	CONTD		
	NUMBERS.	Modulo Arithmetic	
	OUANTIFICATIONS	Congruence Modulo	Definition and meaning
	AND NUMERICAL	Alligation and Mixture	Introduction to modulo operator
	APPI ICATIONS	Numerical Problems	Modular addition and subtraction
	ALLECTIONS	Boats and Streams	Definition and meaning
		(upstream and	Solution using congruence modulo
		downstream)	
		Pipes and Cisterns	
		Races and Games	
		Numerical Inequalities	Meaning and Application of rule of alligation
SEPTEMBER			

		Mean price of a mixture Problems based on speed of stream and the speed of boat in still water Calculation of the portion of the tank filled or drained by the pipe(s) in unit time Calculation of the time taken/ distance covered / speed of each player Comparison between two statements/situations which can be compared numerically Application of the techniques of numerical solution of algebraic inequations
TIME BASED DATA,	Time Series Components of Time Series Time Series analysis for univariate data Secular Trend Methods of Measuring trend	Meaning and Definition Secular trend Seasonal variation Cyclical variation Irregular variation Fitting a straight-line trend and estimating the value The tendency of the variable to increase or decrease over a long period of time Moving Average method Method of Least Squares
CALCULUS- INTEGRATION AND ITS APPLICATIONS,	Integration Indefinite Integrals as family of curves Definite Integrals as area under the curve Application of Integration	Integration as a reverse process of differentiation Vocabulary and Notations related to Integration Simple integrals based on each method (non-trigonometric function) Evaluation of definite integrals using properties Problems based on finding Total cost when Marginal Cost is given Total Revenue when Marginal Revenue is given Equilibrium price and equilibrium quantity and hence consumer and producer surplus

	DIFFERENTIAL	Differential Equations	Definition, order, degree and examples
	EQUATIONS	Formulating and	Formation of differential equation by eliminating arbitrary
		Solving Differential	constants
		Equations	Solution of simple differential equations (direct integration only)
		Application of	
		Differential Equations	Growth and Decay Model in Biological sciences, Economics and
			business, etc
OCTOBER			
TERM END EVALU	ATION 18/10/24 TO 30	/10/24 (INTEGRALS A)	ND DIFFERENTIAL EQUATIONS NOT INCLUDED FOR
		EXAM)	
	INFEDENTIAL	Population and	Population data from census, economic surveys and other
		Sample	contexts from practical life
	STATISTICS	Baramotor and	\Box Examples of drawing more than one sample set from the
		Statistics and	same population
		Statistical	\Box Examples of representative and per representative sample
		Interforences	Liphicaged and bigged compliant
		t Test (and somela t	Diplased and plased sampling Droblema based on rendem compliand using simple rendem
		t- Test (one sample t-	Problems based on random sampling using simple random
		test and two	sampling and systematic random sampling (sample size less
		Independent groups t-	than 100)
		test)	
			Conceptual understanding of Parameter and Statistics
			Examples of Parameter and Statistic limited to Mean and
			Standard deviation only
			Examples to highlight limitations of generalizing results from
			sample to population
			Only conceptual understanding of Statistical
			Significance/Statistical Inferences
			Only conceptual understanding of Sampling Distribution
			through simulation and graphs
NOVEMBED			
NUVENIBEK			

		 Examples and non-examples of Null and Alternate hypothesis (only non-directional alternate hypothesis) Framing of Null and Alternate hypothesis Testing a Null Hypothesis to make Statistical Inferences for small sample size (for small sample size: t- test for one group and two independent groups Use of t-table
FINANCIAL MATHEMATICS	Perpetuity, Sinking Funds Calculation of EMI Calculation of Returns, Nominal Rate of Return Compound Annual Growth Rate Linear method of Depreciation	Meaning of Perpetuity and Sinking Fund Real life examples of sinking fund Advantages of Sinking Fund Sinking Fund vs. Savings account Methods to calculate EMI: i) Flat-Rate Method ii) Reducing-Balance Method Real life examples to calculate EMI of various types of loans, purchase of assets, etc. Formula for calculation of Rate of Return, Nominal Rate of Return Meaning and use of Compound Annual Growth Rate Formula for Compound Annual Growth Rate Advantages and disadvantages of Linear Method

	LINEAR PROGRAMMING	Introduction and related terminology Mathematical formulation of Linear Programming Problem Different types of Linear Programming Problems Graphical method of solution for problems in two variables Feasible and Infeasible Regions Feasible and infeasible solutions, optimal feasible	 Need for framing linear programming problem Definition of Decision Variable, Constraints, Objective function, Optimization and Non- Negative conditions Set the problem in terms of decision variables, identify the objective function, identify the set of problem constraints, express the problem in terms of inequations Formulate various types of LPP's like Manufacturing Problem, Diet Problem, Transportation Problem, etc. Corner Point Method for the Optimal solution of LPP Iso-cost/ Iso-profit Method Definition and Examples to explain the terms Problems based on optimization Examples of finding the solutions by graphical method
DECEMBER	MODEL EXAMINATION	-1 [02/12/24 TO 13/12/2	24]
	MODEL EXAMINATION	-2 [03/01/25 TO 15/01/2	25]
JANUARY			
TEACHERS ATTENDED:			
BAV, KAKKANAD- ANU	RAJ N		

BNV, VELLOOR- LALITHA K

BHARATIYA VIDYA BHAVAN, KOCHI KENDRAYEAR PLAN - 2024-'25STD: XII-SUBJECT: ECONOMICS (030)

	PART A-MACROECONOMICS
April/May	Unit 2: Money &Banking
June/ July	Unit 1-National Income and related aggregates
August	Unit 4: Government budget and the economy
September	Unit 5: Balance of Payments & Foreign Exchange
October	Unit 3: Determination of income and employment

	PART-B- INDIAN ECONOMIC DEVELOPMENT
March/April	Unit 1: Development Experience (1947-90)
	Indian economy on the eve of Independence
	Indian economy 1950-90
July	Unit 2: Economic Reforms since 1991 (LPG)
	Unit 3: Current challenges
	5: HCF
August	Unit 3: Current challenges
	6: Rural development
	7: Employment
September	Unit 3: Current challenges
	9: Environment and Sustainable Development
November	Unit 4: Comparative Development Experiences of
	India and its neighbours

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

CLASS XII CHEMISTRY

MONTH	TOPIC	SUB-TOPIC	CONCEPTS
MARCH/APRIL	1. SOLUTIONS 6. HALOALKANES AND	SOLUTIONS - Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid	SOLUTIONS - Concentration terma and units, Henry's and Roults law Ideal and non-ideal
	HALOALKANES AND HALOARENES	solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hofffactor . Haloalkanes and halo arenes - Nomenclature, nature of C–X bond, physical properties.	Henry's and Roults law, Ideal and non- ideal solution, colligative properties, osmosis and reverse osmosis, abnormal molar mass and vant Hoff's factor. Haloalkanes and halo arenes - IUPAC nomenclature, preparation, properties, reaction mechanisms of haloalkanes and haloarenes
JUNE	6.HALOALKANES AND HALOARENES 7.ALCOHOLS,PHENOLS AND ETHERS	Haloalkanes and halo arenes :Chemical properties, mechanism of substitution reactions, optical rotation. Nature of C–X bond, substitution reactions (Directive influence of halogen in mono substituted compounds only).Uses and environmental effects of dichloromethane , trichloromethane , tetrachloromethane , iodoform , freons , DDT. Alcohlols , Phenols and ethers : Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses	Haloalkanes and halo arenes-Application of haloalkanes and haloarenes Alcohols,Phenols and Ethers- IUPAC nomenclature, preparation, properties, reaction mechanisms of Alcohols, phenols and Ethers

FIRST UNIT - TEST (10/6/2024-15/6/2024) PORTIONS - SOLUTIONS (18) - Numericals 7 marks. HALOALKANES AND HALOARENES- Including physical properties (7)

JULY	8.ALDEHYDES,KETONES	Nomenclature, nature of carbonyl group, methods of	
	AND CARBOXYLIC	preparation, physical and chemical properties, mechanism of	IUPAC nomenclature of aldehydes , ketones and
	ACIDS	nucleophilic addition, reactivity of alpha hydrogen in aldehydes:	carboxylic acids, structure of carboxyl groups,
		uses.	preparation of aldehydes and ketones, physical and
		Carboxylic acid-Nomenclature, acidic nature, methods of	chemical characterictics of aldehydesa nd ketones,
		preparation, physical and chemical properties; uses	preparation of carboxylic acids, physical and
			chemical characteristics of carboxylic acids.
			Application of aldehydes, ketones and acids.

SECOND UNIT - TEST(31/07/2024 - 7/8/2024)

PORTIONS-6.HALO ALKANES & HALOARENES - from chemical properties.(8)7. ALCOHOLS, PHENOLS AND ETHERS (12) 8.ALDEHYDES, KETONES AND CARBOXYLIC ACIDS - upto physical properties(physical properties not included)(5)

AUGUST 2.	ELECTROCHEMISTRY	Redox reactions, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis(elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, EMF of a cell,standard electrode potential, Nernst equation and its application to chemical cells, Relationbetween Gibbs energy change and EMF of a cell, fuel cells, corrosion.	Electrochemical cell, Nernst equation, Electrolytic conductivity and molar conductivity, Kohlarauschs law , electrolysis , fuel cells and batteries, corrosion
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SEPTEMBER	3. CHEMICAL KINETICS 10. BIOMOLECULES	Chemical Kinetics :Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment). Activation energy, Arrhenius equation. BIOMOLECULES : Carbohydrates - Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates.Proteins – Elementary idea of – amino acids , peptide bond , polypeptides , proteins , structure of proteins- primary, secondary , tertiary, quarternary structures (qualitative idea only), denaturation of proteins, enzymes . Hormones- Elementary idea excluding structure.Vitamins- Classification and functions.Nucleic acids – DNA and RNA	Chemical kinetics - types of chemical reactions, average rate of reaction, rate equation , order of reaction, rate constant, rate of reaction, rate equation for different orders of reaction, rate constant and order of reaction, collision theory. Biomolecules - Carbohydrates- classification, fructose and glucose, sources of protein , types of protein , denaturation of protein , enzymes , vitamins , structure and chemical composition of nucleic acids, role of biomolecules.
OCTOBER	4. d and f BLOCK ELEMENTS 5. COORDINATION COMPOUNDS	 "d" and "f" Block Elements:General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K2Cr2O7 and KMnO4. Co-ordination compounds :Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT 	"d" and "f" Block Elements: Position of transition elements, electronic configuration, physical and chemical characteristics of transition elements, variable oxidation number , electrode4 potantail, oxidation states, magnetic properties , complex copounds, prreparation of metal oxides, properties of f-block elements Co-ordination compounds : Werners theory, co- ordination entity , co-ordination number, polyhedron , oxidation number of central atom , homolectic and heteroleptic complexes, IUPAC nomenclature, isomerism, valence bond theory ,

TERM END EXAMINATION (18/10/24 - 30/10/24) PORTIONS - SOLUTIONS (8), HALOALKANES AND HALOARENES (10),ALCOHOLS , PHENOLS AND ETHERS (10) ,ALDEHYDES KETONES AND CARBOXYLIC ACIDS (15),ELECTROCHEMISTRY (15) , CHEMICAL KINETICS (12)

NOVEMBER	5. COORDINATION	Coordination compounds :CFT; structure and stereoisomerism,	Coordination compounds: Crystal field theory,
	COMPOUNDS	importance of coordination compounds (in qualitative inclusion,	synergic bond, applications of complex copounds.
	9. AMINES	extraction of metals and biological system.	Amines : Structure of amines , classification,
		AMINES:Nomenclature, classification, structure, methods of	IUPAC nomenclature, preparation, physical and
		preparation, physical and chemical properties, uses, identification	chemical properties, diazotisation, preparation of
		of primary, secondary and tertiary amines.Diazonium salts :	diazinium salts, imporatance of diazonium salts
		Preparation, chemical reactions and importance in synthetic	
		organic chemistry	

NAME OF SCHOOL	NAME OF TEACHER	SIGNATURE
BVM.ELAMAKKARA	DEEPTHY U T	
BVM.EROOR	T BABY SAVITHRY	
BVM.GIRINAGAR	GEETHA K	
BMV.THIRUVANKULAN	LETHA S	
BAV. KAKKANAD	ELLORA JOSEPH	
BVV THRIKKAKARA	SARITHA C	
BNV VELLOOR	MARY	

	BHARATIYA VIDYA BHAVAN, KOCHI KENDRA INFORMATICS PRACTICES(065) YEAR PLAN FOR THE ACADEMIC YEAR 2024-25			
		CLASS: XII		
MONTH	ΤΟΡΙϹ	SUB-TOPICS	CONCEPTS	
APRIL	Unit 1: Data Handling using Pandas –I	Introduction to Python libraries- Pandas, Matplotlib Data structures in Pandas - Series and Data Frames Series: Creation of Series from – ndarray, dictionary, scalar value , Mathematical operations on series – addition, subtraction, multiplication, division ,Head and Tail functions Selection, Indexing and Slicing Attributes of Series – name, index.name, values, size, emptyDataFrames: creation - from dictionary of Series, list of dictionaries, displaying dataframe Attributes of DataFrames – index, columns, dtypes, values, shape, size, T, ndim, head(), tail()	Data analysis using Python libraries,Concepts of data structures,Series creation and its operations. Creation of 2D data sructure: Dataframe and its attributes	
JUNE	Unit 1: Data Handling using Pandas –I	Data Frames: Operations on rows and columns: add, select, delete, rename; Head and Tail functions;	Operations on dataframes and built in functions, concept of importing and exporting data using csv	
		UNIT TEST I -10/06/2024 TO 15/06/2024 Portions: Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames Creation - from dictionary of Serie MARKING SCHEME: OBJECTIVE TYPE QUESTIONS [MCQs - 5 marks(20%)] COMPETENCY BASED QUESTIONS Assertion Reasoning - 1 Mark (4%) Find the output, Find the errors and operations based on Series - 10 Marks (40%) Series and Data Frame creation - 5 Marks (20%) CONSTUCTED RESPONSE QUESTIONS [Short answer questions - 4 marks (16%)]	es	

JULA	Unit 1: Data Handling using Pandas –I	Data Frames: creation - from Text/CSV files; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames. iteration; Data Frame Creation using Text/CSV files	Dataframes indexing ,concept of importing and exporting data using csv
	1	UNIT TEST II -31/07/2024 TO 07/08/2024	1
		PORTIONS :Data Frames: creation - list of dictionaries, Text/CSV files ,display; iteration; Operation	ns ,Indexing
		Importing/Exporting Data between CSV files and Data Frames.	
		MARKING SCHEME: OBJECTIVE TYPE QUESTIONS [MCQs - 5 marks(20%)] COMPETENCY BASED QUESTIONS Assertion Reasoning - 1 Mark (4%) Find the output, Find the errors and operations based on DataFrame - 10 Marks (40% Data Frame creation - 3 Marks (12%) CONSTUCTED RESPONSE QUESTIONS [Short answer questions - 6 marks (24%)]	6)
AUGUST	Unit 1: Data	Data Visualization: Purpose of plotting; drawing and saving following types of plots using	Visualizing data using matplotlib library,Societal
	Visualization	Impacts-Digital footprint,IPR	
Customizing plots: adding label, title, and legend in plots.			
	Unit 4: Societal	Societal Impacts	
	Impacts	Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright	

SEPTEMBER	Unit 4: Societal Impacts Unit 2: Database Query using SQL	Societal Impacts Free and Open Source Software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology Database Query using SQL Revision of database concepts and SQL commands covered in class XI Math functions: POWER (), ROUND (), MOD (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().	Societal Impacts- cybercrime and cyber laws, E-waste: hazards and management. Data Base Concepts and SQL single row functions			
OCTOBER	Unit 2: Database		Data Base Concepts and SQL Aggregate functions			
	Query using SQL	Text functions : UCASE ()/ UPPER (), LCASE ()/ LOWER (), MID ()/ SUBSTRING ()				
		Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).				
		Querying and manipulating data using Group by, Having, Order by.				
		Working with two tables using equi-join				
	TERM END EVALUATION -18/10/2024 TO 30/10/2024 PORTIONS :Unit 1: Data Handling using Pandas -I and Data Visualization ,Unit 4: Societal Impacts, Unit 2: Database Query using SQL Revision of database concepts and SQL commands covered in class XI,SQL SINGLE ROW FUNCTIONS					
		MARKING SCHEME:				
		Unit I Data Handling using Pandas -I and Data Visualization- 35 Marks,				
		Unit 4: Societal Impacts - 10 Marks				
Unit 2: Database Query using SQL-25 Marks						
COMPETENCY BASED OUESTIONS						
Assertion Reasoning - 2 Mark (2 %)						
		Very Short Answer type questions carrying 02 marks each - 14 marks (20 %)				
		Short Answer type questions carrying 03 marks - 18 Marks (25.7%)				
		Questions carrying 05 marks each -20 Marks (28.5%)				

NOVEMBER	Unit 3: Introduction to Computer Networks	Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, W W W, and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Network and types of Network,Network Devices,Network Topology, Internet and web fundementals	
DECEMBER		FIRST MODEL EXAMINATION -02/12/2024 TO 13/12/2024	ŀ	
JANUARY	SECOND MODEL EXAMINATION -03/01/2025 TO 15/01/2025			
S.No	NAME OF	NAME OF TEACHERS	SIGNATURE	
	BVM,			
1	ELAMAKKARA			
2	BVM, EROOR			
	BVV,			
3	THRIKKAKARA			
	BVM,			
5	BAV, KAKKANAD			
	BMV,			
6	TRIPUNITHURA			
7	BMV, VELLOOR			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA COMPUTER SCIENCE YEAR PLAN FOR THE ACADEMIC YEAR 2024-25				
		CLASS: X		
MONTH	TOPIC	SUB-TOPICS	CONCEPTS	
MARCH/ APRIL	Computational Thinking and Programming-2 Database Management	Revision of python topics in class XI Functions Database concepts Relational data model	Basic concepts of Python programming Creating reusable and modular code, promoting good programming practices such as code reusability, readability, and maintainability. Concepts of RDBMS.	
UNIT	TEST 1(10/6/2024)TOPICS	REVISION STD XI, FUNCTION	S,DATABASE CONCEPTS,RELATIONAL DATA MODEL	
JUNE	Database Management	Structured Query Language	The use of RDBMS to store, organize, and retrieve large amounts of data efficiently. Understand and use MySQL commands to store and manage data. Grouping and filtering of records to get cumulative data. Extracting data from multiple tables.	
JULY	Computational Thinking and Programming-2 Database Management	Interface of Python with an SQL Database,Excepton Handling	Client Server architecture -to transfer and manage data between a front end and back end. Handle errors raised by programs using try, except and finally.	
	UNIT TEST	2(31/7/2024)TOPICS :SQL,CONN	ECTIVITY,EXCEPTION HANDLING	
AUGUST	Computational Thinking and Programming-2	Introduction to Files, Text Files	Files as a medium for permanent storage. Types of Files and paths.Text File Handling	

SEPTEMBER	Computational Thinking and Programming-2	Binary Files,CSV Files	Binary and CSV file Handling
TERM EN	ND EVALUATION (18/10/2 MODEL,SQL,CON	024) TOPICS:REVISION STD XI, NECTIVITY,EXCEPTION HAND	FUNCTIONS,DATABASE CONCEPTS,RELATIONAL DATA DLING,TEXT FILE,BINARY FILE,CSV FILE
OCTOBER	Computer Networks	Data Structure,Evolution of Networking,Data communication terminologies,Transmission Media,Network Devices,Network Types,Network Protocol	Understand the concept of Stack. Various types of transmission media used in different types of networks, including wired ,wireless networks,network types,topologies,network protocol and network devices.
NOVEMBER	Computer Networks	Introduction to Web Services	Introduction to web services.
	•	FIRST MODEL:2/12/202	24 TO 13/12/2024
		SECOND MODEL:3/1/2	025 TO 15/1/2025
S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BVM, ELAMAKKARA	BINDU T C	
2	BVM, EROOR	ANUPAMA USHA	
3	BVV, THRIKKAKARA	ALEYAMMA GEORGE	
4	BVM, GIRINAGAR	GIRIJA PILLAI	
5	BAV, KAKKANAD	SEEMA C	
6	BMV, TRIPUNITHURA	SUSMITHA SHENOY	
7	BMV, VELLOOR	ANOOP M A	

YEAR PLAN FOR THE ACADEMIC YEAR 2024-2025					
MONTH	CLASS: XII MONTH TOPIC SUB-TOPICS CONCEPTS				
MARCH/ APRIL	PART A: Unit 2: Self- management Skills PART A: Unit 3: Information and Communication Technology Skills	 PART A: Unit 2: Self-management Skills Session 1 Motivation and Positive Attitude Session 2 Result Orientation Session 3 Self-awareness PART A: Unit 3: Information and Communication Technology Skills Session 1 Getting Started with Spreadsheet Session 2 Performing Basic Operations in a Spreadsheet Session 3 Working with Data and Formatting Text Session 5 Presentation Software Session 6 Opening, Closing, Saving and Printing a Presentation Session 7 Working with Slides and Text in a Presentation Session 8 Advanced Features used in Presentation 	 PART A: Unit 2: Self-management Skills sources of motivation and inspiration personality PART A: Unit 3: Information and Communication Technology Skills spreadsheet application presentation application 		

		Unit 1 : Communication Skills-IV:	
		 Session 1 Active Listening 	
		Session 2 Parts of Speech	
		 Session 3 Writing Sentences 	
	PART A:Unit 1 :		
	Communication Skills-IV	Unit 1: Capstone Project	Unit 1 : Communication Skills-III:
JUNE		 Understanding the problem 	 Importance of active listening
	PART B: Unit 1: Capstone	 Decomposing the problem through DT framework 	 Steps to active listening
	Project	Analytic Approach	
		Data Requirements	Unit 1: Capstone Project:
		Data Collection	Al Project Cycle
		 Modelling approach 	
		Unit Test I Starts: 10/06/2024	
	1		1
JULY	PART B: Unit 1:Capstone Project	 Unit 1: Capstone Project How to validate model quality Metrics of model quality by simple Maths and examples from small datasets Introduction to commonly used algorithms and the science behind them Showcase through a compelling story 	Unit 1: Capstone Project: • Model validation , RMSE , MSE , MAPE
	PART A: Unit 4: Entrepreneurial Skills	PART A: Unit 4: Entrepreneurship Skills Session 1 Entrepreneurship and Entrepreneur Session 2 Barriers to Entrepreneurship Session 3 Entrepreneurial Attitudes Session 4 Entrepreneurial Competencies	PART A: Unit 4: Entrepreneurship Skills Behavioral and entrepreneurial competencies
Unit Test II Starts: 31 /07/2024			

AUGUST	PART B: Unit 2: Model Life Cycle	 PART B: Unit 2: Model Life Cycle Different aspects of Model (Train, test, validate, hyper parameters, Commonly used platforms to build and runmodels) Links to different platforms(watson) Lifecycle of an AI model (Build, Deploy, Retrain) 	PART B: Unit 2: Model Life Cycle Al Project Cycle, Model validation, Al deployment, IBM Watson
SEPTEMBER	PART A: Unit 5: Green Skills	PART A: Unit 5: Green Skills Session 1 Green Jobs Session 2 Importance of Green Jobs	PART A: Unit 5: Green Skills Role of green jobs
OCTOBER	PART B: Unit 3: Story- telling through data	PART B: Unit 3: Story- telling through data • The Need for Storytelling • How to create stories? • Ethics of storytelling	PART B: Unit 3: Story- telling through data • story telling
End Term Evaluation Starts: 18/10/2024			

NOVEMBER	PART B: Unit 3: Story- telling through data	PART B: Unit 3: Story- telling through data • Types of Data and Suitable Charts • Stories During the Steps of Predictive Modeling • Best Practices of Storytelling	PART B: Unit 3: Story- telling through data • power of data story telling	
DECEMBER	First Model Examination Starts: 02/12/2024			
JANUARY	Second Model Examination starts: 03/01/2025			
FEBRUARY				
MARCH				
S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE	
1	BMV, TRIPUNITHURA	Srilekshmi M,Ambujam Sasi		
2	BVM ELAMAKKARA	Anju G		
3	BVM,EROOR	Ganga Varma		
4	BVM, GIIRINAGAR	Bhavya G Menon		
5	BVV,THRIKKAKARA	Anagha Mani		
6	BNV VELOOR	Shybee Thomas		
7	BAV KAKKANAD	Neethesh Shenoy		

	BHARATIYA V	IDYA BHAVAN, KOCHI KENDRA	
	YEAR PLAN FO	R THE ACADEMIC YEAR 2024-25	
CLASS	XII		
SUBJECT	ACCOUNTANCY		
MONTH	ТОРІС	SUB-TOPICS	CONCEPTS
MARCH- APRIL	ACCOUNTING FOR PARTNERSHIP FIRMS -BASIC CONCEPTS	 1.1 Nature of Partnership 1.2 Partnership Deed 1.3 Special Aspects of Partnership Accounts 1.4 Maintenance of Capital Accounts of Partners 1.5 Distribution of Profit among Partners 1.6 Guarantee of Profit to a Partner 1.7 Past Adjustments 	Meaning nature and definition Contents of Partnership Deed. Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account- division of profit among partners Guarantee of profits to the partners and partner to the firm. Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio).
JUNE	GOODWILL: NATURE AND VALUATION	2.1 Nature of Goodwill2.2 Factors affecting Goodwill2.3 Types of Goodwill2.4 Methods of valuation of Goodwill	Meaning and Nature Factors affecting goodwill Self-generated and Purchased Methods of valuation - average profit, super profit and capitalization.
	UNI	T TEST 1 - 25 MARKS	

JUNE	RECONSTITUTION OF A PARTNERSHIP FIRM - ADMISSION OF PARNTERS	 3.1 Modes of Reconstitution of a Partnership Firm 3.2 Admission of a New Partner 3.3 New Profit Sharing Ratio 3.4 Sacrificing Ratio 3.5 Goodwill 3.6 Adjustment for Accumulated Profits and Losses 3.7 Revaluation of Assets and Reassessment of Liabilities 3.8 Adjustment of Capitals 	Cases of Reconstitution Effect of admission of a partner on change in the profit sharing ratio Old Ratio - New Ratio Treatment of goodwill (as per AS 26) Treatment of reserves, accumulated profits and losses Treatment for revaluation of assets and re-assessment of liabilities Adjustment of capital accounts and preparation of capital, current account and Balance Sheet
JULY	RECONSTITUTION OF A PARTNERSHIP FIRM - CHANGE IN PROFIT SHARING RATIO AMONG THE EXISTING PARTNERS	 4.1 New Profit Sharing Ratio 4.2 Sacrificing Ratio/Gaining Ratio 4.3 Goodwill 4.4 Adjustment for Accumulated Profits and Losses 4.5 Revaluation of Assets and Reassessment of Liabilities 4.6 Adjustment of Capitals 	Calculation of New Profit sharing Ratio. Sacrificing ratio, gaining ratio- Calculation. Accounting Treatment of Goodwill. Treatment of reserves and accumulated profits. Accounting for revaluation of assets and reassessment of liabilities Preparation of revaluation account and Balance Sheet.

	RECONSTITUTION OF A	 5.1 Ascertaining the Amount Due to Retiring Partner 5.2 New Profit Sharing Ratio 5.3 Gaining Ratio 5.4 Treatment of Goodwill 5.5 Adjustment for Revaluation of Assets and Liabilities 	Effect of retirement of a partner on change in profit sharing ratio, Calculation New Ratio. New Ratio - Old Ratio Treatment of goodwill (as per AS 26), Treatment for revaluation of assets and
JOLY	PARTNERSHIP FIRM - RETIREMENT OF PARTNER	 5.6 Adjustment of Accumulated Profits and Losses 5.7 Disposal of Amount Due to Retiring Partner 5.8 Adjustment of Partners' Capitals 5.9 Retiring Partners Loan a/c 	Preparation of capital, current account and Balance Sheet. Adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and Preparation of loan account of the retiring partner.
	UNIT	TTEST II - 25 MARKS	
AUGUST	RECONSTITUTION OF A PARTNERSHIP FIRM - DEATH OF A PARTNER	 6.1 Ascertaining the Amount Due to Deceased Partner 6.2 New Profit Sharing Ratio 6.3 Gaining Ratio 6.4 Treatment of Goodwill 6.5 Adjustment for Revaluation of Assets and Liabilities 6.6 Adjustment of Accumulated Profits and Losses 6.7 Disposal of Amount Due to Deceased Partner 6.8 Executors a/c 	Calculation of amount to be transferred to Executor's A/c Calculation New Ratio. New Ratio - Old Ratio Treatment of goodwill (as per AS 26), Treatment for revaluation of assets and reassessment of liabilities, Preparation of capital, current account and Balance Sheet. Adjustment of accumulated profits, losses and reserves, adjustment of capital account Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account.

AUGUST	DISSOLUTION OF PARTNERSHIP FIRM	7.1 Dissolution of Partnership7.2 Dissolution of a Firm7.3 Settlement of Accounts7.4 Accounting Treatment	Dissolution of partnership and partnership firm, Types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c
SEPTEMBER	ACCOUNTING FOR SHARE CAPITAL	 8.1 Features of a Company 8.2 Kinds of Companies 8.3 Share Capital of a Company 8.4 Nature and Classes of Shares 8.5 Issue of Shares 8.6 Accounting Treatment 8.7 Forfeiture of Shares 	Company and Share Capital Features of a Company Kind of Companies. Share Capital of a Company and its Categories. Nature and Classes of Shares. Issue of Shares. Accounting Treatment, Calls in Arrears and Calls in Advance, Over Subscription and Under Subscription, Issue of Shares at a Premium and at a Discount, Issue of Shares for Consideration other than Cash. Forfeiture of Shares. Reissue of Forfeited Shares.

SEPTEMBER	ISSUE OF DEBENTURES	 9.1 Meaning of Debentures 9.2 Distinction between Shares and Debentures 9.3 Types of Debentures 9.4 Terms of Issue of Debentures 9.5 Over Subscription 9.6 Issue of Debentures for Consideration other than Cash 9.7 Issue of Debentures as a Collateral Security 9.8 Issue of Debentures 9.9 Interest on Debentures 9.10 Writing off Discount/Loss on Issue of Debentures 	Meaning of Debentures. Distinction between Shares and Debentures. Types of Debentures. Issue of Debentures- Par, Premium & Discount Pro Rata & Rejection. Issue of Debentures other than cash- Par, Premium & Discount. With & Without Journal Entries & effect in Balance Sheet. Accounting Treatment for different cases. Journal Entries & TDS. Sources to write off & Preparation of ledger accounts.
OCTOBER	FINANCIAL STATEMENTS OF A COMPANY	 10.1 Meaning of Financial Statements 10.2 Nature of Financial Statements 10.3 Objectives of Financial Statements 10.4 Types of Financial Statements 10.5 Uses and Importance of Financial Statements 10.6 Limitations of Financial Statements 	Meaning, Nature, Uses and importance of financial Statements. Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)

OCTOBER	FINANCIAL STATEMENT ANALYSIS	11.1 Meaning of Analysis of Financial Statements 11.2 Significance of Analysis of Financial Statements 11.3 Objectives of Analysis of Financial Statements 11.4 Tools of Analysis of Financial Statements 11.54.7 Limitations of Financial Analysis	Meaning of Analysis of financial statements. Significance of Analysis of financial statements. Objectives of Analysis of financial statements. Comparative, Common Size, Ratio Analysis and Cash Flow Statement. Limitations of Financial Analysis
OCTOBER	TOOLS OF FINANCIAL STATEMENT ANALYSIS- COMPARATIVE, COMMON SIZE STATEMENTS.ACCOUNTING RATIOS	 12.4 Tools of Analysis of Financial Statements 12.5 Comparative Statements 12.6 Common Size Statement 13.1 Meaning of Accounting Ratios 13.2 Objectives of Ratio Analysis 13.3 Advantages of Ratio Analysis 13.4 Limitations of Ratio Analysis 13.5 Types of Ratios 13.6 Liquidity Ratios 13.7 Solvency Ratios 13.8 Activity (or Turnover) Ratio 13.9 Profitability Ratios 	Preparation of comparative and common size statement, Accounting Ratios: Meaning, Objectives Advantages, Classification and computation- .Liquidity Ratios: ,Solvency Ratios: Activity Ratios: Profitability Ratios:
Jan gala	TERM END	EVALUATION - 80 MARKS	

NOVEMBER	CASH FLOW STATEMENT	 14.1 Objectives of Cash Flow Statement 14.2 Benefits of Cash Flow Statement 14.3 Cash and Cash Equivalents 14.4 Cash Flows 14.5 Classification of Activities for the Preparation of Cash Flow Statement 14.6 Ascertaining Cash Flow from Operating Activities 14.7 Ascertainment of Cash Flow from Investing and Financing Activities 14.8 Preparation of Cash Flow Statement 	Meaning, objectives Benefits of Cash Flow Statement Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised)
NOVEMBER	PROJECT WORK	ONE SPECIFIC PROJECT	One specific project based on financial statement analysis of a company covering any two aspects from the following: 1. Comparative and common size financial statements 2. Accounting Ratios 3. Segment Reports 4. Cash Flow Statements
DECEMBER		FIRST MODEL EXAMINATION	
JANUARY		SECOND MODEL EXAMINATION	
JANUARY	PR	OJECT- PRACTICAL EXAMINATION	

SEEN AND SIGNED:

NAME OF THE SCHOOL	NAME OF THE TEACHER	SIGNATURE
BVM, ELAMAKKARA	AKHILA LAL	044.124
BVM, EROOR	DHANYA V, SANGEETHA PAI R	State Real 2A
BVM, GIRINAGAR	DEEPA V MENON	Dest
BVV, THRIKAKKARA	MINI MENON	
BMV, THIRUVAMKULAM	SAJITH S	
BNV, VELLOOR	SHERRY DEEPAK	
BAV, KAKKANAD	DEEPA VARGHESE	+ One

	BHARAT	IYA VIDYA BHAVAN, KOCHI	
All successive states and an end of the second	YEAR PLAN FO	OR THE ACADEMIC YEAR 2024	4-25
SUBJECT: HOME SO	CIENCE		CLASS:XII
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	Chapter 1 - Work, livelihood and Career	 Work, careers and livelihood Traditional occupation in India Work ,Age and Gender Life skills for livelihood Ergonomics Entrepreneurship 	 Agriculture, Handicraft, Indian cuisine, Visual arts KGBV, BBPY Soft skills at work place Four pillars - Anthropometry, Biomechanics, Industrial psychology, Physiology Entrepreneurs and social entrepreneurs
APRIL	Chapter 2 - Clinical Nutrition and Dietetics	 Basic concepts Diet therapy Types of diet Feeding routes Scope 	 Nutrition and clinical nutrition Diet therapy - Objectives Regular and modified diets Intravenous and tube feeding
JUNE	Chapter 3 Public Nutrition and Health	1. Basic concept 2. Nutritional Problems of India 3. Strategies/Intervention to tackle Nutritional problems 4. Health Care 5. Scope	 Public health nutrition PEM and micronutrient deficiencies Nutrient based and diet based strategies, ICDS, Food supplementation and food security programme, NDCP Primary, secondary and tertiary health care
JUNE		FIRST UNIT TEST - CHAPTER	S1&2
JUNE	Chapter 4 Food Processing and Technology Chapter 5 - Food Quality and Food Safety	 Basic concepts Importance of Food processing and Preservation Classification of food on the basis of extent and type of processing Scope Basic concepts Food standards regulation in India- FSSA (2006) International Organization and agreements in the area of Food Standards, Quality, Research and Trade Food Safety Management Systems Scope 	 Food science, food processing, food technology and food manufacturing Perishable, semi-perishable and non- perishable foods Preserved foods, manufactured foods, formulated foods, foo derivatives, functional foods, medical foods Food safety (Toxicity & Hazard), Hazards (Physical, chemical and biological), Food infection, Food poisoning, Food quality, food adulteration and contamination National, Company, Regional and international standards Codex Alimentarius Commission, International Organization for Standardisation & World Trade Organizatio Good manufacturing practices (GMP), Good handling practices (GHP), Hazard Analysis Critical Control Points (HACCP)

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	Chapter 6 - Early Childhood Care and Education	1. Significance 2. Basic concepts 3. Scope	1. Toddler, Creche, Montessori, 2. Objectives and guiding principles of ECCE
JULY	Chapter 7 - Management of Support Services, Institutions and Programmes for Children, Youth and Elderly	 Basic Concepts Why are children vulnerable? Institutions, programmes and initiatives for children Why are Youth vulnerable? Youth programmes in India Why are the elderly vulnerable? Some programmes for the elderly 8.Scope 	 ICDS, SOS Children"s Village, Children"s Homes run by the Government, Adoption NSS, NSVS, Prmotion of adventure, Scouts and guides, CYP, PNI Oldage home, respite home, NOAPS, mobile medicare unit People skill and administrative skill
JULY		SECOND UNIT TEST - CHAPTER	S 3,4, & 5
	Chapter 8 - Design for Fabric and Apparel	1. Basic concepts 2. Elements of design 3. Principles of Design 4. Scope	 Design: Structural & Applied Colour, Texture, Line, Shapes or form Proportion, Balance, Emphasis, Rhythm, Harmony
AUGUST	Chapter 9 - Fashion Design and Merchandising	 Basic Concepts Fashion terminology – Fashion Development Fashion Merchandising Fashion Retail Organization Scope 	 Fashion ,fads, style, classic France-The centre of fashion, Fashion Evolution, Fashion cycle Retail organisation merchandising, buying agency merchendising, export house merchendising Market segmentation - Demographic, geographic, psychographic, behavioural Small single unit store, department store, chain store forecasting ability, analyticalability and communication skill

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SEPTEMBER	EPTEMBER	Chapter 10 - Care and Maintenance of Fabrics in Institutions	1. Basic concepts 2. Institutions 3. Scope	1. Washing equipment, Drying equipment, Ironing/pressing equipment 2. Laundry in hospitals and hotels
		Chapter 11 - Hospitality Management	1. Basic concepts 2. Departments involved in hospitality mana 3. Scope	1. Hospitality, Guest cycle, 2. Front office, House keeping department, Food and beverage department - Kitchen stewarding
	OCTOBER	Chapter 12 - Consumer Education and Protection	 Significance of consumer education and protection Basic concepts Standardized marks Protection Councils Consumer Responsibilities Scope 	1. Consumer product, Consumer behaviour, Consumer forum, Consumer footfalls, Consumer problems, Consumer rights 2. ISI, Wool Mark, Hall Mark, Silk Mark 3. COPRA
	OCTOBER		TERM END EXAMINATION - CHAPTERS	1, 2, 3, 4, 5, 6, 7 & 8
. P	NOVEMBER	Chapter 13: Development communication and Journalism	 Significance Basic concepts Methods of communication Scope and career avenues in development communication 	 Development, Development journalism, Development Communication Campaign Radio and television Print media - Project village Chhatera Information and communication technologies - SEWA, SARI,CLCs, E-Governance, E-Choupal
J	DECEMBER	FIRST MODEL EXAMINATION		
	JANUARY	SECOND MODEL EXAMINATION		

TEACHER'S NAME	NAME OF THE SCHOOL	SIGNATURE
BRIJULA CHANDRAN	BVM, EROOR	80h
C K VINEETHA	BMV,TRIPUNITHURA	CULANT.
KARTHIKA V MENON	BVM, ELAMAKKARA	Kastal

and the second	YEAR PLAN FOR THE ACAD	EMIC YEAR 2024-25	
	ENGLISH CORE ST	FD XII	
MONTH	TOPIC/SUBTOR	PIC	WRITING
	FLAMINGO	VISTAS	
MARCH/ APRIL	1.THE LAST LESSON 2. LOST SPRING P1. MY MOTHER AT SIXTY SIX	1.THE THIRD LEVEL 2. THE TIGER KING (NOT TO BE INCLUDED FOR UT 1)	
JUNE (21 DAYS)	P2. KEEPING QUIET (NOT TO BE INCLUDED FOR UT1) 3. DEEP WATER (NOT TO BE INCLUDED FOR UT1)	3. JOURNEY TO THE END OF THE EARTH (NOT TO BE INCLUDED FOR UT 1)	1. NOTICE
	UNIT TEST 1 (JUNE 1	.0 -15)	
JULY (24 DAYS)	4. THE RATTRAP (NOT TO BE INCLUDED FOR UT 2) P3. A THING OF BEAUTY (NOT TO BE INCLUDED FOR UT 2)		2. LETTER TO THE EDITOR
	UNIT TEST 2 (JULY 31 -	AUG 7)	
AUGUST (20 DAYS)	P4. A ROADSIDE STAND P5. AUNT JENNIFER'S TIGERS	4. THE ENEMY	3. REPORT WRITING (NEWSPAPER AND MAGAZINE)
SEPTEMBER (16 DAYS)	5. INDIGO 6. POETS AND PANCAKES (NOT TO BE INCLUDED FOR TERM END 1)		4.INVITATION - FORMAL & INFORMAL REPLY TO INVITATION

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OCTOBER (22 DAYS) 7. THE INTERVIEW (NOT TO BE INCLUDED FOR TERM END 1) 5.ON T (NOT T INCLU END 1)		5.ON THE FACE OF IT (NOT TO BE INCLUDED FOR TERM END 1)	5. ARTICLE 6. JOB APPLICATION LETTER
	TERM END EVALUATIO	N 1 (OCT 18 - 30)	1
NOVEMBER (24 DAYS)	8. GOING PLACES	6. MEMORIES OF CHILDHOOD	
	FIRST MODEL EXAMINATI SECOND MODEL EXAMINAT BOARD ASL – 20 MARKS (TO BE DON	ON (2 DEC -13 DEC) FION (3 JAN -15 JAN) E AS STIPULATED BY THE CBSE)	

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BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

YEAR PLAN MATHEMATICS(041) CLASS XII 2024-2025

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	3.MATRICES	Introduction Matrix Types of matrices Operations on matrices Transpose of a matrix symmetric and skew symmetric matrices. Invertible matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restricted to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).
APRIL	4.DETERMINANTS	Introduction Determinant Area of a Triangle Minors and Cofactors Adjoint and Inverse of a Matrix Applications of Determinants and Matrices	Determinant of a square matrix (up to 3 x 3 matrices),, minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of systems of linear equations by examples, solving systems of linear equations in two or three variables (having unique solution) using inverse of a matrix.
JUNE	1.RELATIONS AND FUNCTIONS (Not for first Unit Test)	Introduction Types of Relations Types of Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.

JUNE	2 .INVERSE TRIGONOMETRIC FUNCTIONS	Introduction Basic Concepts	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions
JUNE	12.LINEAR PROGRAMMING	Introduction Linear Programming Problem	Introduction, related terminology such as constraints, objective function, optimization, . Graphical method of solution for problems in two variables, feasible and infeasible regions (bounded OR unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).
JULY	5.CONTINUITY & DIFFERENTIABILITY	Introduction Continuity Differentiability Exponential and Logarithmic Functions Logarithmic Differentiation Derivatives of Functions in Parametric Forms Second Order Derivative	Continuity and differentiability, chain rule, derivative of inverse trigonometric functions like sin ⁻¹ x cos ⁻¹ x ,tan ⁻¹ x, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.
JULY	6 .APPLICATION OF DERIVATIVES (Not for the second Unit Test)	Introduction Rate of Change of Quantities Increasing and Decreasing Functions Maxima and Minima	Rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real life situations).
	SECO)ND UNIT TEST(Chanters 1.2.5.1	2)(31/07/24 - 07/08/24)

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AUGUST	7.INTEGRALS (Definite integrals not included for term end exam)	Introduction Integration as an Inverse Process of Differentiation Methods of Integration Integrals of Some Particular Functions Integration by Partial Fractions Integration by Parts Definite Integral Fundamental Theorem of Calculus Evaluation of Definite Integrals by Substitution Some Properties of Definite Integrals	Integration as an inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^{2\pm}a^2}} \int \frac{dx}{\sqrt{a^{2^-}-x^2}} \int \frac{dx}{ax^2 + bx + c},$ $\int \frac{dx}{\sqrt{ax^2 + bx + c}} \int \frac{px + q}{ax^2 + bx + c} \int \frac{px + q}{\sqrt{ax^{2^+}bx + c}}$ $\int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} , \int \sqrt{ax^2 + bx + c}$ Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.
SEPTEMBER	8.APPLICATION OF INTEGRATION(Not for the Term end evaluation)	Introduction Area under Simple Curves	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses; (in standard form only)
SEPTEMBER	9.DIFFERENTIAL EQUATIONS (Not for the Term end evaluation)	Introduction Basic Concepts General and Particular Solutions of a Differential Equation	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions

		Methods of Solving First Order, First Degree Differential Equations	of homogeneous differential equations of first order and first degree . Solutions of linear differential equation of $dY/dx + P y = Q$, where P and Q are functions of x or constants . dx/dy + Px = Q where P and Q are functions of y or constants
	FERM END EVALUATIO	N[Chapters 1,2,3,4,5,6,12,7(sections 7.	1,7.2,7.3,7.4,7.5,7.6)](18/10/24 - 30/10/24)
OCTOBER	10.VECTOR ALGEBRA	Introduction Some Basic Concepts Types of Vectors Addition of Vectors Multiplication of a Vector by a Scalar Product of Two Vectors	Vectors and scalars, magnitude and direction of a vector ,direction cosines and direction ratios of a vector ,types of vectors,(equal, unit, zero ,parallel and collinear vectors)position vector of a point ,negative of a vector ,components of a vector ,addition of vectors ,multiplication of vectors by a scalar ,position vector of a point dividing a line segment in a given ratio ,definition ,geometrical interpretation ,properties and application of scalar product of vectors ,vector product of vectors.
OCTOBER	11.THREE-DIMENSIO NAL GEOMETRY	Introduction Direction Cosines and Direction Ratios of a Line Equation of a Line in Space Angle between Two Lines Shortest Distance between Two Lines	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between 2 lines.
NOVEMBER	13.PROBABILITY	Introduction Conditional Probability Multiplication Theorem on Probability Independent Events Bayes' Theorem	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, Mean of the random variable.

DECEMBER	
	FIRST MODEL EXAMINATION(02/12/24 -13/12/24)

- **BVM ELAMAKKARA: BINDHU VISHAL, LOGIN RAJAN**
- **BVM EROOR:** MINI S NAIR, RENUKA GOPINATH
- **BVM GIRINAGAR: BEENA V NAIR, ZEENA MANUEL**
- BAV KAKKANAD: ANURAJ N, VARSHA R
- BMV THIRUVANKULAM: MINU K JOY, REKHA R NAICK
- **BVV THRIKKAKARA:** SINDHU AYYAPPAN
- **BNV VELLOOR:** ABHILASH G NAIR, LALITHA K

B. M. V Thornwooden tom

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Physical Education Year plan-class XII -2024-2025

June	HPE Assessment, Training of physical fitness, General
	Discipline, Training of Sports and games, annual sports day selection, height and weight.
July	HPE Assessment, Selection of External competitions, Intramural competitions, Training of physical fitness and various sports and games, height and weight, preparation for organizing sports and games events.
August	March past, Selection for Annual sports meet, Training for external competitions, major games inter house competition. HPE Assessment.
September	Annual sports Meet, HPE fitness, Selection and training for external competitions, Intramural competitions, major games, March past.
October	HPE Assessment, Selection and training for external competitions, general fitness exercises, Intramural competitions, major games, height and weight
November	HPE Assessment, Intramural and extramural competitions, general fitness, major games. Height and weight
December	Assessment and grading.

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BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

ENTREPRENEURSHIP

CLASS XII

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(CODE NO. 066)

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH- APRIL	Unit – 1: Entrepreneurial Opportunity	 Sensing Entrepreneurial Opportunities Environment Scanning Problem Identification Idea fields Spotting Trends Creativity and Innovation Selecting the Right Opportunity 	Entrepreneurial Opportunities Environment Scanning Idea fields Spotting Trends
	UNIT T	EST 1 - 25 MARKS	
JUNE	Unit – 2: Enterprise Planning	 Forms of business organization- Sole proprietorship, Partnership, Company Business Plan: concept, format. Components: Organisational plan; Operational plan; Production plan; Financial plan; Marketing plan; Human Resource plan 	Business Plan
JULY	Unit – 3: Enterprise Marketing	 Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy 	Marketing and Sales Strategy Branding, Logo, Tagline Promotion Strategy
UNIT TEST I1 - 25 MARKS			

AUGUST	Unit – 4: Enterprise Growth Strategies	 Franchising: Concept and types Franchising: Advantages and limitations to franchisor and franchisee. Mergers and Acquisition: Concept, reasons and types. Reasons for mergers and acquisitions 	Franchising Mergers and Acquisition
SEPTEMBER	Unit – 5: Business Arithmetic	 Unit of Sale, Unit Cost for multiple products or services Break even Analysis for multiple products or services 	Unit of Sale, Unit Cost Break even Analysis
TERM END EVALUATION - 80 MARKS			
OCTOBER	Unit – 5: Business Arithmetic	 Computation of Working Capital Inventory Control and EOQ Return on Investment (ROI) and Return on Equity (ROE) 	Working Capital Inventory Control and EOQ Return on Investment (ROI) and Return on Equity (ROE)
NOVEMBER	Unit – 6: Resource Mobilization	 Capital Market: Concept Primary market: Concept, methods of issue Angel Investor: Features Venture Capital: Features, funding. 	Capital Market Primary market Angel Investor Venture Capital
DECEMBER	FI	RST MODEL EXAMINATI	ON
JANUARY	SECOND MODEL EXAMINATION		
JANUARY	PROJECT- PRACTICAL EXAMINATION		

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

YEAR PLAN FOR THE ACADEMIC YEAR 2024-25

CLASS XII BUSINESS STUDIES (054)

MONTH	ΤΟΡΙϹ	SUB-TOPICS	CONCEPTS
		Introduction	Management - concept, objectives, and importance
		Nature of Management	Management as Science, Art and Profession
MADCH	Nature and	Levels of Management	Levels of Management
МАКСН	Management	Functions of Management	Management functions-planning, organizing, staffing, directing and controlling
		Co-ordination -The Essence of Management	Coordination- concept and importance
		Principles of Management - The Concept	Principles of Management-concept and significance
APRIL	Management	Principles of Management	Fayol's principles of management
		Taylor's Scientific Management	Taylor's Scientific management - principles and techniques
		UNIT TEST I	(25 MARKS)
		Introduction	Meaning and importance of Business environment
JUNE	Business Environment	Dimensions of Business Environment	Dimensions of Business Environment - Economic, Social, Technological, Political and Legal

		Demonetisation	Demonetization - concept and features
		Introduction	Marketing – Concept, functions and philosophies
		Marketing Mix	Marketing Mix – Concept and elements
		Product	Product – branding, labelling and packaging – Concept
JUNE/JULY	Marketing	Pricing	Price - Concept, Factors determining price
		Physical Distribution	Physical Distribution – concept, components and channels of distribution
		Promotion	Promotion – Concept and elements:-Advertising, Personal Selling, Sales Promotion and Public Relations
		Introduction	Planning: Concept, importance and limitation
JULY	Planning	Planning Process	Planning process
		Types of Plans	Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme
		UNIT TEST II	(25 MARKS)
		Introduction	Organising: Concept and importance
JULY/AUGUST		Steps in the process of Organising	Organising Process
	Organizing		Structure of organisation- functional and divisional concept.
		Organisation Structure	Formal and informal organization – concept
		Delegation	Delegation: concept, elements and importance

		Decentralisation	Decentralization: concept and importance
		Introduction	Concept and importance of staffing
		Staffing as a Part of Human Resource Management	Staffing as a part of Human Resource Management concept
		Staffing Process	Staffing process
AUGUST	Staffing	Recruitment	Meaning, process, sources-internal and external (merits and demerits)
		Selection	Meaning, process
		Training and Development	Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training
	Directing	Introduction	Directing: Concept and importance
		Elements of Direction	Elements of Directing
AUGUST/		Motivation	Motivation - concept, Maslow's hierarchy of needs, Financial and Non-Financial incentives
SEPTEMBER		Leadership	Leadership - concept, styles - authoritative, democratic and laissez faire
		Communication	Communication - concept, formal and informal communication; barriers to effective communication, How to overcome the barriers?
		Controlling	Controlling - Concept and importance
SEPTEMBER	Controlling	Relationship between Planning and Controlling	Relationship between planning and controlling

		Controlling Process	Steps in process of control		
TERM END EVALUATION (80 MARKS)					
OCTOBER	Financial Markets	Introduction	Financial Markets: Concept		
		Money Market	Money Market: Concept		
		Capital Market	Capital market and its types (primary and secondary), Difference between (primary and secondary) & (Capital market and money market)		
		Stock Exchange	Stock Exchange - Functions and trading procedure		
		Securities and Exchange Board of India (SEBI)	Securities and Exchange Board of India (SEBI) - objectives and functions		
			•		
NOVEMBER	Consumer Protection	Introduction	Consumer Protection: Concept and importance		
		The Consumer Protection Act,2019	The Consumer Protection Act, 2019		
		Who is a Consumer?	Meaning of consumer		
		Rights and Responsibilities of a Consumer	Rights and responsibilities of consumers		
		Who can file a complaint?	Who can file a complaint?		
		Redressal Agencies under Consumer Protection Act	Redressal machinery		
		Reliefs Available	Remedies available		

		Role of Consumer	Consumer Awareness- Role of Consumer Organisations and Non-	
		Organisations and NGOS	Governmental Organisations (NGOs)	
NOVEMBER	Financial Management	Introduction	Financial Management: Concept, role and objectives	
		Financial Decisions	Financial decisions: investment, financing and dividend - Meaning and factors affecting	
		Financial Planning	Financial Planning - concept and importance	
		Capital Structure	Capital Structure – concept and factors affecting capital structure	
		Fixed and Working Capital	Fixed and Working Capital - Concept and factors affecting their requirements	
NOVEMBER	PROJECT	 Students are supposed to select one unit out of four and are required to make only ONE project from the selected unit. 1. Elements of Business Environment 2. Principles of Management 3. Stock Exchange 		
		4. Marketing		
DECEMBER	FIRST MODEL EXAMINATION			
JANUARY	SECOND MODEL EXAMINATION			
JANUARY	PRACTICAL EXAMINATION			

SEEN	SIGNED
BVM, ELAMAKKARA –SHILAJA T R	
BVV, THRIKKAKARA –VIJILAKSHMI B	
BVM, EROOR – RENUKA BAIJU, ANITHA V	
BAV, KAKKANAD – SUDHA VARMA	
BVM, GIRINAGAR – ASHMI M R	
BMV, THIRUVAMKULAM – NIRMALA V K	
BNV, VELLOOR – MANJU BALAN	