

BHARATIYA VIDYA BHAVAN , KOCHI YEAR PLAN 2026-2027 STD XI ENGLISH				
MONTH	MAIN TEXT	SUPPLEMENTARY READER	GRAMMAR	WRITING
JUNE (23 days)	L1. The Portrait of a Lady P1. A Photograph	L1. The Summer of the Beautiful White Horse	G1. Tenses	W1. Poster
JULY (25 days)	P2. The Laburnum Top L2. We are not afraid to die...if we can be together (NOT TO BE INCLUDED FOR UT1) L3. Discovering Tut the Saga Continues. (ONLY FOR GROUP ACTIVITY)		G2. Reordering of sentences	W3. Advertisements (Classifieds) Situation Wanted/Vacant For sale/ To Let (NOT TO BE INCLUDED FOR UT1)
UNIT TEST I (27/07/2026 - 03/08/2026)				
AUGUST (16 days)	P3. The Voice of the Rain	L2. The Address		R1. Note Making W2. Speech
SEPTEMBER (22 days)	P4. Childhood	L4. Birth		
OCTOBER (22 days)		L3. Mother's Day (NOT TO BE INCLUDED FOR TERM END EVALUATION)	G3. If Clauses (NOT TO BE INCLUDED FOR TERM END EVALUATION)	
TERM END EVALUATION (28/9/2026- 9/10/2026)				

NOVEMBER (23 days)	L4.The Adventure P5.Father to Son		G4. Reordering of sentences	
DECEMBER (19 days)	L5. Silk Road (NOT TO BE INCLUDED FOR UT 2)			W3. Advertisements (Classifieds) Automobile Missing Lost and Found Educational Institution Travel and Tours
UNIT TEST II (14/12/2026 - 21/12/2026)				
JANUARY (21 days)		L5. The Tale of Melon City	G5. Transformation of sentences	Debate
FEBRUARY (22 days)	REVISION			
FINAL EXAMINATION (15/02/2027 -26/02/2027)				

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA				
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027				
STD XI - MATHEMATICS (041)				
MONTH	UNIT	TOPIC	SUB TOPICS	CONCEPTS
JUNE	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.
	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 ($R \times R \times R$). 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 $\sqrt{-1}$ to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.
UNIT TEST- I (JULY 27 -AUGUST 3) (Chapters - 1, 2 & 4)				
JULY	5	LINEAR INEQUALITIES (NOT FOR UT1)	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.
AUGUST	3	TRIGONOMETRIC FUNCTIONS	Introduction Angles Trigonometric functions Trigonometric functions of sum and difference 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 $\tan 3x$.

SEPTEMBER	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.
TERM END EVALUATION (SEPT 28 – OCT 9) (Chapters - 1, 2, 3, 4, 5 & 8)				
OCTOBER	6	PERMUTATIONS & COMBINATIONS	Introduction Fundamental principle of counting	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of formula for nPr and nCr and their connections, simple applications.
OCTOBER	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.
NOVEMBER	9	STRAIGHT LINES	Introduction Slope of a Line Various forms of the equation of a line Distance of a point from a line	Brief recall of two dimensional geometry from earlier classes, Slope of a line and angle between two lines. 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-dimensional 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
NOVEMBER	10	CONIC SECTIONS (NOT FOR UNIT TEST II)	Introduction Sections of a cone Circle Parabola Ellipse	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.
UNIT TEST- II (DEC 14 – DEC 21) (Chapters – 6,7, 9 & 11)				
DECEMBER	12	LIMITS AND DERIVATIVES (NOT FOR UNIT TEST II)	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. Limits of 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.

JANUARY	13	STATISTICS	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
JANUARY	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.
FEBRUARY	REVISION FINAL EXAMINATION (FEB 15 – FEB 26) ALL CHAPTERS			

BAV, KAKKANAD - VARSHA R

BVM, ELAMAKKARA - ANURAJ N, LOGIN RAJAN

BVV, THRIKAKKARA - SINDHU AYYAPPAN

BVM, GIRINAGAR - BEENA V NAIR, JAYASREE L

BMV, TRIPUNITHURA - MINU K JOY

BNV, VELLORE - LALITHA K, ABHILASH G NAIR

BVM, EROOR - RENUKA P GOPINATH, BINDU K

BHARATIYA VIDYA BHAVAN, KOCHI			
YEAR PLAN -2026-2027			
STD :XI PHYSICS			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	CHAPTER 1- UNITS AND MEASUREMENT	Need for measurement: significant figures. Dimensions of physical quantities	Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures, Determining the uncertainty in result. Dimensions of physical quantities, dimensional analysis and its applications.
	CHAPTER 2- MOTION IN A STRAIGHT LINE	Describing motion, Relations for uniformly accelerated motion (graphical treatment). Instantaneous velocity	Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and average velocity and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical and calculus treatment)

JULY	CHAPTER 3- MOTION IN A PLANE CHAPTER 4- LAWS OF MOTION(UPTO FRICTION)	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 Newton's first law of motion, Newton's second law of motion, Newton's third law of motion, conservation of linear momentum, Equilibrium of concurrent forces	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. 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 - July 27-Aug 3 UNITS AND MEASUREMENT(10 Marks), MOTION IN A STRAIGHT LINE (8 Marks), MOTION IN A PLANE UPTO 3.8(MOTION IN A PLANE WITH CONSTANT ACCELERATION included) (7 Marks).			

SEPTEMBER	CHAPTER 6- SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Center of mass Moment of a force and angular momentum Equilibrium of rigid bodies Moment of inertia.	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).
TERM END EXAMINATION I -(sept28-Oct 9) UNITS AND MEASUREMENT(9 Marks), MOTION IN A STRAIGHT LINE (9 Marks), MOTION IN A PLANE (14 Marks), LAWS OF MOTION (12 Marks), WORK ENERGY AND POWER (12 Marks) & SYSTEM OF PARTICLES AND ROTATIONAL MOTION (14 Marks)			
OCTOBER	CHAPTER-7 GRAVITATION	Kepler's laws of planetary motion Universal law of gravitation Gravitational potential energy Escape speed,	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

	CHAPTER 8- MECHANICAL PROPERTIES OF SOLIDS	orbital velocity of a satellite Elastic behaviour of solids, Modulus of Elasticity Elastic Energy	satellite, Energy of an orbiting satellite. elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy, Application of elastic behavior of materials (qualitative idea only).
NOVEMBER	CHAPTER 9- MECHANICAL PROPERTIES OF FLUIDS CHAPTER 10 - THERMAL PROPERTIES OF MATTER	Pressure, Viscosity Surface tension, Capillary rise. Heat, heat transfer, blackbody	Pressure due to a fluid column; Pascal's law and its applications, (hydraulic lift and hydraulic brakes), Effect of gravity on fluid pressure. Bernoulli's theorem and its simple applications (Torricelli's law and Dynamic lift). Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity. 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; C_p, C_v - calorimetry; change of state -

	CHAPTER 13 - OSCILLATIONS	radiation Periodic motion, simple harmonic motion energy in SHM	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) uniform circular motion 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.
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DECEMBER	CHAPTER 14-WAVES	Wave motion, reflection of waves	Wave motion: Transverse and longitudinal 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.
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UNIT TEST II (Dec 14-Dec 21) GRAVITATION(9 Marks), MECHANICAL PROPERTIES OF SOLIDS (6 Marks) & MECHANICAL PROPERTIES OF FLUIDS (including 9.5.1- Stokes' law)(10 Marks)			
JANUARY	CHAPTER 11-THERMODYNAMICS	Zeroth law ,first law,Second law and thermodynamical process.	Thermal equilibrium and definition of temperature, zeroth law of thermodynamics Heat, work and internal energy.First law of thermodynamics,Second law of Thermodynamics ,Thermodynamic state variable and equation of state,gaseous state of matter, change of condition of gaseous state - isothermal, adiabatic,reversible, irreversible, and cyclic processes.
	CHAPTER 12-KINETIC THEORY OF GASES	Equation of state of a perfect gas,Kinetic theory of gases,degrees of freedom	Equation of state of a perfect gas,work done in compressing a gas.Kinetic theory of gases assumptions, 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.
FEBRUARY	REVISION FINAL EXAMINATION (15Feb-26Feb) UNITS AND MEASUREMENT(5 Marks), MOTION IN A STRAIGHT LINE & MOTION IN A PLANE (8 Marks),		

**LAWS OF MOTION (5 Marks), WORK ENERGY AND POWER (4 Marks),
SYSTEM OF PARTICLES AND ROTATIONAL MOTION (6 Marks),
GRAVITATION(5 Marks),
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	Name of the School	Signature
ASHA A S	BMV,TRIPUNITHURA	
GAYATHRI R	BVM,GIRINAGAR	
LOVELY K N	BNV,VELLORE	
RANGA ACHARIAR N	BVV,THRIKKAKARA	
MANJINI P NAIR	BAV, KAKKANAD	
CISMI POULOSE	BVM,ELAMAKKARA	
KALA S PILLAI	BVM,EROOR	

BHARATIYA VIDYA BHAVAN, KOCHI
YEAR PLAN FOR THE YEAR 2026-2027
CLASS -XI
SUBJECT -CHEMISTRY

MONTH	TOPIC	SUB-TOPIC	CONCEPTS
JUNE	1.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, law of multiple proportion Avogadro'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 mass-mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry - concentration terms.
JUNE-JULY	2. STRUCTURE OF ATOM	Discovery of Electron, Proton and Neutron, atomic number,	Subatomic particles, atomic number, mass number, isotopes, Isobars, Nucleus, Electromagnetic theory of radiations, particle nature of radiation,

		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 subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.	black body radiations, photo electric effect, spectra, Bohr's postulates for hydrogen atom, negative energy of electron Dual nature of matter, orbits, orbitals, principal quantum number, azimuthal quantum number, magnetic quantum number, spin quantum number, $n + l$ rule, nodes, nodal planes, electronic configuration of atoms, ions, stable configurations.
UNIT TEST -I (JULY -27-AUGUST-3) PORTIONS 1.SOME BASIC CONCEPTS OF CHEMISTRY (13 marks) 2.STRUCTURE OF ATOM (12 marks) Numericals -7 marks			
JULY -AUGUST	3.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 -	Dobernier's triads, Law of octaves, Mendeleev'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 -Periodicity

		atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.	in valence or oxidation state, Anomalous properties of second period elements, Periodic trends in chemical reactivity.
AUGUST	s & p BLOCK ELEMENTS	s & p Block Elements Electronic configuration, atomic & Ionic radii, Ionization Enthalpy, Hydration Enthalpy and general trends in physical and chemical properties of s and p block elements across the periods and down the groups; unique behavior of the first element in each group	NON-EVALUATIVE
AUGUST - SEPTEMBER	4.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, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of	Valence bond, Lewis structure, Octet rule, limitations of octet rule, formal charge, ionic bond, 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. Repulsion between electron pairs, shapes-linear, trigonal planar, tetrahedral, trigonal bipyramid, octahedral, bent, seesaw, square pyramidal, square planar, PE curve for the H ₂ molecule formation, Non existence of He ₂ molecule, Types of hybridisation sp, sp ² , sp ³ , dsp ² , d ² sp ³ , atomic and molecular orbitals MO energy level diagram, Hydrogen bonding- definition, reason, consequences

		homonuclear diatomic molecules (qualitative idea only), Hydrogen bond.	
SEPTEMBER	GASEOUS STATE	Qualitative treatment of Gas laws-Ideal gas equation and deviations from it	NON-EVALUATIVE
OCTOBER - NOVEMBER	5.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, 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).	System, Surrounding, Open, Closed, Isolated system, Surroundings, work, heat, energy, extensive and intensive properties, state functions, Reversible, Irreversible process, Isothermal, adiabatic, 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 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 -I (SEPTEMBER 28-OCTOBER 9) PORTIONS 1.SOME BASIC CONCEPTS OF CHEMISTRY (15 marks) 2.STRUCTURE OF ATOM(18 marks) 3. CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES.(17marks) 4. CHEMICAL BONDING AND MOLECULAR STRUCTURE (20marks) Numericals -12 marks TOTAL=70 marks			
NOVEMBER	6.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, K_a value acid strength, pH, pOH, P_{kw} , hydrolysis of salts, buffer solution, buffer action, Henderson equation, solubility, solubility product, common ion effect

DECEMBER	7.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, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions.
UNIT TEST -II (DECEMBER 14-21) PORTIONS 5.CHEMICAL THERMODYNAMICS-(12 marks) 6.EQUILIBRIUM –(13 marks) Numericals -7 marks			
JANUARY	8.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, carbocations, carbanions, electrophiles and nucleophiles,	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, Stability of carbocations, free radicals, classification of intermediates in to electrophiles and nucleophiles, Purification methods - crystallisation, sublimation, distillation, fractional distillation, distillation under reduced pressure, steam distillation, Lassaigne's test, Dumas method, Kjeldahl's method.

		types of organic reactions.	
JANUARY	9.HYDROCARBONS	Classification of Hydrocarbons Aliphatic Hydrocarbons: Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions 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	Hydrocarbons, classification of hydrocarbons, IUPAC nomenclature, physical and chemical properties, catalytic reduction, free radical halogenation, combustion, Reforming, aromatisation, pyrolysis, Markovnikov's law, peroxide effect, ozonolysis, polymerisation, acidic character of alkynes, addition reactions, resonance, aromaticity, Huckel's rule, electrophilic substitution, Arenium ion, addition reactions by benzene, directing influence, Carcinogenicity and toxicity

		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.	
ANNUAL EXAMINATION-70 marks 15/02/2027 TO 26/02/2027 (ALL PORTIONS :40% of TERM I & 60%) 1. Some basic concepts of chemistry - 6 marks 2. Structure of atom - 7 marks 3. Classification of elements and periodicity in properties- 7 marks 4. Chemical bonding and molecular structure - 8 marks 5. Chemical thermodynamics - 5 marks 6. Equilibrium- 6 marks 7. Redox reactions- 7 marks 8. Organic chemistry - Some basic principles and techniques - 11 marks 9. Hydrocarbons - 13 marks			

BVM GIRINAGAR

BHARATIYA VIDYA BHAVAN, KOCHI STD XI ZOOLOGY YEAR PLAN FOR THE ACADEMIC YEAR 2026-27			
MONTH	TOPIC	SUB TOPICS	CONCEPTS
JUNE	CHAPTER 4 ANIMAL KINGDOM	4.1 Levels of Organisation 4.2 Classification of animals 4.2.11 Phylum Chordata	4.1.1 Levels of organisation 4.1.2 Symmetry 4.1.3 Diploblastic and Triploblastic organisation 4.1.4 Coelom 4.1.5 Segmentation 4.1.6 Notochord 4.2.3 Ctenophora 4.2.4 Platyhelminthes 4.2.5 Aschelminthes 4.2.6 Annelida 4.2.7 Arthropoda 4.2.8 Mollusca 4.2.9 Echinodermata 4.2.10 Hemichordata 4.2.11 (1,2,3) Class Pisces 4.2.11.4 Class Amphibia 4.2.11.5 Class Reptilia 4.2.11.6 Class Aves 4.2.11.7 Class Mammalia FOR EVALUATION Fig 4.2,4.3,4.16 For Drawing Other Figures can be included for Identification Questions
	CHAPTER 7 STRUCTURAL ORGANISATION IN ANIMALS	7.1 ORGAN AND ORGAN SYSTEM-FROG	7.2.1 Morphology
JULY	CHAPTER 7 STRUCTURAL ORGANISATION IN ANIMALS Cont..	7.1 ORGAN AND ORGAN SYSTEM-FROG	7.2.2 Anatomy Fig 7.2,7.3,7.4 For Identification and labelling only not for drawing
	CHAPTER 8 CELL- THE UNIT OF LIFE	What is a Cell? An overview of cells. Cell theory Prokaryotic cells 8.5 Eukaryotic cells	Different parts of a cell. Differences between a prokaryotic and eukaryotic cell. Modification of cell theory by Rudolf Virchow. Cell Envelope and its Modifications. Ribosomes and Inclusion bodies 8.5.1 Cell Membrane Fig 8.4 for evaluation 8.5.2 Cell Wall 8.5.3 Endomembrane System 8.5.4 Mitochondria Fig 8.7 for evaluation 8.5.5 Plastids Fig 8.8 for evaluation 8.5.6 Ribosomes 8.5.7 Cytoskeleton 8.5.8 Cilia and Flagella 8.5.9 Centrosome and Centrioles 8.5.10 Nucleus Fig 8.12, 8.13 for evaluation 8.5.11 Microbodies
	CHAPTER 9 BIOMOLECULES Cont.....	9.1 How to Analyse Chemical Composition? (For Evaluation- Page -106-lipids and nucleic acids only) 9.2 Primary and Secondary Metabolites	Chemical composition of living tissues Primary and Secondary Metabolites
	UNIT TEST -I (July 27th - August 3rd) CHAPTER 4 ANIMAL KINGDOM		
	CHAPTER 9 BIOMOLECULES Cont.....	9.3 Biomacromolecules 9.4 Proteins 9.5 Polysaccharides 9.6 Nucleic Acids 9.7 Structure of Proteins 9.8 Enzymes	Biomacromolecules and micromolecules Structure of proteins Table 9.5 for Evaluation Homo and hetero polysaccharides Fig 9.2 Not For Evaluation Nucleosides and Nucleotides Types of proteins Fig 9.3 Not For Evaluation 9.8 Enzymes 9.8.2 How do enzymes bring about such high rates of chemical conversions? Fig 9.4 For Evaluation 9.8.3 Nature of Enzyme action 9.8.4 Factors affecting Enzyme Activity Fig 9.5 For Evaluation 9.8.5 Classification and Nomenclature of Enzymes 9.8.6 Co factors.

AUGUST	CHAPTER 14 BREATHING AND EXCHANGE OF GASES	Respiratory Organs and Human respiratory system. Mechanism of breathing , Respiratory Volumes and Capacities. Exchange and transport of Gases Regulation of Respiration Disorders of Respiratory System	Respiratory organs in animals (recall only). 14.1 Not For Evaluation Structure of human respiratory system. Inspiration and Expiration. TV , IRV , ERV, RV, IC, EC , FRC , TLC Partial pressure of Oxygen , Carbondioxide and pressure gradient Transport of Oxygen Transport of Carbon dioxide Fig 14.4 for labelling , 14.5 for evaluation Role of respiratory rhythm centre Asthma , Emphysema and Occupational respiratory disorders.
SEPTEMBER	CHAPTER15-BODY FLUIDS AND CIRCULATION	15.1 Blood 15.2 Lymph 15.3 Circulatory Pathways 15.4 Double circulation 15.5 Regulation of Cardiac activity 15.6 Disorders of circulatory system	15.1.1 Plasma 15.1.2 Formed elements 15.1.3 Blood groups 15.1.4 Coagulation of blood 15.2 Formation and functions of lymph 15.3.1 Human Circulatory system 15.3.2 Cardiac cycle 15.3.3 ECG Pulmonary circulation, Systemic circulation Neural and hormonal control High Blood Pressure, CAD, Angina, Heart failure
	CHAPTER -16-EXCRETORY PRODUCTS AND THEIR ELIMINATION	16.1 Human Excretory System	Structure of kidneys and nephron Fig 16.2 for labelling
	TERM END EVALUATION 1 (SEP 28th-OCT9th) CHAPTER 4 ANIMAL KINGDOM, 7 STRUCTURAL ORGANISATION IN ANIMALS, 8 CELL- THE UNIT OF LIFE AND 9 BIOMOLECULES		
OCTOBER	CHAPTER16-EXCRETORY PRODUCTS AND THEIR ELIMINATION CONTINUED....	16.2 Urine Formation 16.3 Function of the tubules" 16.4 Mechanism of concentration of the filtrate 16.5 Regulation of kidney function 16.6 Micturition 16.7 Role of other organs in excretion 16.8 Disorders of the excretory system	Glomerular filtration, selective reabsorption and tubular secretion" Role of PCT, Henle's loop, DCT and Collecting duct Countercurrent mechanism Role of ADH, Renin-Angiotensin mechanism, ANF Process of urination Expulsion of Co2 and sweat through lungs and skin respectively. Renal calculi, uremia, nephritis, dialysis and artificial kidney, kidney transplant
	CHAPTER 17-LOCOMOTION AND MOVEMENT	17.1 Types of Movement 17.2 Muscle	Ciliary , flagellar, amoeboid and muscular Types of muscles
NOVEMBER	CHAPTER 17-LOCOMOTION AND MOVEMENT CONTINUED..	17.2 Muscle 17.3 Skeletal System 17.4 Joints 17.5 Disorders of Muscular and Skeletal System	17.2.1 Structure of Contractile Proteins Fig 17.3 , 17.4 for Identification and Labelling 17.2.2 Mechanism of Muscle Contraction Axial and Appendicular Types of joints Gout , Myasthenia gravis , Tetany , Muscular dystrophy , Arthritis , Osteoporosis
	CHAPTER 18 - NEURAL CONTROL AND COORDINATION	18.1 Neural System 18.2 Human Neural System 18.3 Neuron 18.3.1 Generation and conduction of nerve impulse	Neural system in different animals. CNS, PNS, afferent and efferent fibres Structure of neuron Generation and conduction of nerve impulse
	CHAPTER 18 - NEURAL CONTROL AND COORDINATION cond..	18.3.2 Transmission Of Impulses 18.4 Central Nervous System	Transmission Of Impulses 18.4.1 Forebrain 18.4.2 Midbrain 18.4.3 Hindbrain
DECEMBER	UNIT TEST II -DECEMBER (14 th - 21th) CHAPTER- 14 BREATHING AND EXCHANGE OF GASES, CHAPTER15-BODY FLUIDS AND CIRCULATION		

JANUARY	CHAPTER-19 CHEMICAL COORDINATION AND INTEGRATION	19.1 Endocrine glands and hormone 19.2 Human Endocrine System 19.4 Mechanism of Hormone action	Hormones Major endocrine glands - 19.2.1 Hypothalamus 19.2.2 Pituitary gland 19.2.3 Pineal gland 19.2.4 Thyroid gland 19.2.5 Parathyroid gland 19.2.7 Adrenal gland 19.2.8 Pancreas 19.2.9 Testis 19.2.10 Ovary Types of hormones, mechanism of action of protein and steroid hormones.	
FEBRUARY	REVISION FINAL EXAMINATION FEB 15th - 26th, FULL PORTIONS			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
STD XI – BOTANY – YEAR PLAN			
2026-2027			
MONTH	TOPIC	SUB TOPICS	CONCEPTS
JUNE	1. THE LIVING WORLD 2. BIOLOGICAL CLASSIFICATION	1.1 Diversity in the living world 1.2 Taxonomic Categories 2.1 Kingdom Monera 2.2 Kingdom Protista 2.3 Kingdom Fungi	Characteristics of Living things. Taxonomic Hierarchy Binomial nomenclature. Figure 1.1 and Table 1.1 to be included for evaluation. Salient features of five kingdom classification Salient features of five major kingdom with examples.
JULY	2. BIOLOGICAL CLASSIFICATION CONTD 3. PLANT KINGDOM	2.4 Kingdom Plantae 2.5 Kingdom Animalia 2.6 Viruses, Viroids, Prions and Lichens 3.1 Algae 3.2 Bryophytes 3.3 Pteridophytes	Figure 2.2, 2.3, 2.4 (b&d), 2.6 (b) to be included for evaluation. Salient features of plant kingdom. Salient features of various divisions of plant kingdom with examples. Figure 3.1(a-i & b-ii), Table 3.1 and Figure (3.2 a,b&c) to be included for evaluation.
AUGUST	3. PLANT KINGDOM CONTD.... 5. MORPHOLOGY 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 Angiosperms 5.1 The Root 5.2 The Stem 5.3 The Leaf 5.4 The Inflorescence 5.5 The Flower	Taproot, fibrous and adventitious root system. Region of the root, The stem, The leaf, parts of leaf, venation, Types of leaf, Phyllotaxy, The inflorescence. The flower, Parts of a flower, Androecium, Gynoecium.
UNIT TEST I Portions (JULY 27 th TO AUGUST 3rd) Living world, Biological classification, Plant Kingdom (up to 3.3 Pteridophytes included) CHAPTERS 1,2 & 3 (upto 3.3-included)			
SEPTEMBER	5. MORPHOLOGY OF FLOWERING PLANTS. CONTD..... 6. ANATOMY OF FLOWERING PLANTS.	5.6 The Fruit 5.7 The Seed 5.8 Semi-technical Description of a Typical Flowering Plant. 5.9 Solanaceae 6.1 The Tissue System	Parts of fruits Parthenocarpic fruit Structure of Monocotyledonous and Dicotyledonous seed Floral symbols, diagram and Floral formula Description of Vegetative and floral features of Plant Family - Solanaceae Figure 5.3, Figure 5.4 (a), Figure 5.5(a&b), Figure 5.6(a,b&c), Figure 5.9, Figure 5.11 (Diagrammatic representation only), Figure 5.12, 5.14, 5.15, 5.16 & Figure 5.17 to be included for evaluation. Epidermal tissue system Ground tissue system Vascular tissue system. Figure 6.1, Figure 6.2(a,b&c) to be included for evaluation.
OCTOBER	6. ANATOMY OF FLOWERING PLANTS. CONTD.. 10. CELL CYCLE AND CELL DIVISION.	6.2 Anatomy of Dicotyledonous and Monocotyledonous Plants. 10.1 Cell Cycle 10.2 M Phase 10.3 Significance of Mitosis	Dicotyledonous root, Monocotyledonous root, Dicotyledonous stem, Monocotyledonous stem, Dorsiventral leaf and Isobilateral leaf. Various stages of mitosis and its significance.

TERM END EVALUATION I [SEPTEMBER 28th TO OCTOBER 9th] Portions Living world , Biological classification , Plant Kingdom, Morphology of flowering plants. CHAPTERS 1,2,3 & 5			
NOVEMBER	10.CELL CYCLE AND CELL DIVISION. CONTD... 11. PHOTOSYNTHESIS IN HIGHER PLANTS.	10.4 Meiosis 10.5 Significance of Meiosis 11.1 What do we Know? 11.2 Early Experiments 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	Various stages of meiosis and its significance. Figure 10.1,10.2(a,b,c&d).Figure 10.3&10.4 to be included for evaluation Early experiments in Photosynthesis. Structure of chloroplast. Action and Absorption spectrum in Photosynthesis. Light Reaction-Cyclic and Non cyclic photophosphorylation. Chemiosmotic hypothesis.
DECEMBER	11.PHOTOSYNTHESIS IN HIGHER PLANTS. CONTD... 12..RESPIRATION IN PLANTS	11.7 Where are the ATP and NADPH Used? 11.8 The C4 Pathway 11.9 Photorespiration 11.10 Factors affecting Photosynthesis 12.1 Do Plants Breathe? 12.2 Glycolysis 12.3 Fermentation 12.4 Aerobic Respiration	The Calvin cycle, Kranz Anatomy-C4 Pathway Photorespiration Factors affecting Photosynthesis-Law of limiting factors. Figure 11.5,11.6,11.7,11.8,11.9&11.10 to be included for evaluation Cellular respiration Steps of glycolysis. Major pathways of anaerobic respiration The citric acid cycle. Electron transport system and Oxidative Phosphorylation
DECEMBER	UNIT TEST II [DECEMBER 14th TO DECEMBER 21st] PORTIONS CHAPTERS 6 &10 Anatomy of flowering plants and Cell cycle and Cell division		
JANUARY	12..RESPIRATION IN PLANTS. CONTD... 13. PLANT GROWTH AND DEVELOPMENT.	12.5 The Respiratory Balance Sheet 12.6 Amphibolic Pathway 12.7 Respiratory Quotient 13.1 Growth 13.2 Differentiation, Dedifferentiation and Redifferentiation 13.3 Development	The Respiratory Balance Sheet Amphibolic Pathway Respiratory Quotient. Figure 12.1,12.2,12.3,12.4,12.5&12.6 to be included for evaluation Characteristics of growth. Phases of growth. Growth Rates. Conditions of Growth
FEBRUARY	13. PLANT GROWTH AND DEVELOPMENT CONTD...	13.4 Plant Growth Regulators	Characteristic and discovery of Plant growth regulators. Role of various Growth Regulators -Auxin,Gibberlin, Cytokinin,Ethylene and Abscissic acid Figure 13.4,13.6,13.7,13.8&13.9 to be included for evaluation
FINAL EXAMINATION [FEBRUARY 15 th TO FEBRUARY 26 th] FULL PORTIONS CHAPTERS 1,2,3,5,6,10,11,12&13			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA INFORMATICS PRACTICES
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027
COMPUTER SCIENCE (083)

CLASS : XI

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	Unit II: Computational Thinking and Programming - 1 (Getting Started with Python)	Getting Started with Python	Introduction to problem solving and basics of Python programming , Different Types of data , Operators, Expressions, Errors
JULY	Unit II: Computational Thinking and Programming - 1	Getting Started with Python -Flow of control (conditional statements)	Flow of control (conditional statements)
ST I 27/07/2026 TO 03/08/2026 [25 MARKS 80 MIN]		PORTIONS: Introduction to problem solving and basics of Python programming Different Types of data , Operators, Expressions, Errors Flow of control (conditional statements)	MARKING SCHEME: Competency Focused Questions in the form of MCQs / Case Based Questions, Source-based Integrated Questions or any other type = 50% (12.5 MARKS) Select response type questions (MCQ) = 20% (5 MARKS) Constructed response questions = 30% (7.5 MARKS) (Short Answer Questions/Long Answer type)
AUGUST	Unit II: Computational Thinking and Programming - 1	Flow of control (Iterative statements), List	Iterative statements List
SEPTEMBER	Unit II: Computational Thinking and Programming - 1 (Tuple)	Tuple	Tuple

EXAMINATION 28/9/2026 TO 9/10/2026[70 MARKS]		PORTIONS: Introduction to Problem Solving, Basics of Python programming Different Types of data, Operators & Expressions, Errors Flow of control List, Tuple	MARKING SCHEME: Competency Focused Questions in the form of MCQs/ Case Based Questions, Source-based Integrated Questions or any other type = 50% (35 MARKS) Select response type questions (MCQ) = 20%(14 MARKS) Constructed response questions = 30% (21 MARKS) (Short Answer Questions/Long Answer type Questions, as per existing pattern)
OCTOBER	Unit II: Computational Thinking and Programming - 1 (String)	String	String
NOVEMBER	Unit II: Computational Thinking and Programming - 1 (Dictionary)	Dictionary	Dictionary
UNIT II 14/12/2026 TO 21/12/2026 [25 MARKS 80 MIN]		PORTIONS : Strings, Dictionary	MARKING SCHEME: Competency Focused Questions in the form of MCQs/ Case Based Questions, Source-based Integrated Questions or any other type = 50%(12.5 MARKS) Select response type questions (MCQ) = 20%(5 MARKS) Constructed response questions = 30% (7.5 MARKS) (Short Answer Questions/Long Answer type Questions, as per existing pattern)
DECEMBER	Unit II: Computational Thinking and Programming - 1	Modules in Python	Python Modules
JANUARY	Unit 1 -Computer Systems and Organisation Unit 3- Society, Law and Ethics	Computer Systems and Organisation- Boolean logic & Number System , Society, Law and Ethics	Computer Systems and Organisation- Boolean Logic,Number system Society, Law and Ethics

FEBRUARY	Revision and Practical Exam	
MINATION15/02/2027 TO 26/02/2027 [70 MARKS 3	PORTIONS : Introduction to problem solving and basics of Python programming, Different Types of data, Operators, Expressions, Errors Flow of control, List, Tuple, Strings, Dictionary, Modules , Boolean logic & Number System , Society, Law and Ethics	MARKING SCHEME: Competency Focused Questions in the form of MCQs/ Case Based Questions, Source-based Integrated Questions or any other type = 50% (35 MARKS) Select response type questions (MCQ) = 20%(14 MARKS) Constructed response questions = 30% (21 MARKS) (Short Answer Questions/Long Answer type Questions, as per existing pattern)

BHARATIYA VIDYA BHAVAN, KOCHI			
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27			
Subject:PSYCHOLOGY (037)			
Class: XI			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	Chapter 1 Understanding Psychology	What is psychology? Understanding mind and behaviour Popular notion about the discipline of psychology. Evolution of psychology Development of psychology in India Branches of psychology Psychology and other disciplines Psychology in every day life	Psychology as a discipline. Psychology as a natural science. Psychology as a social science.
JULY	Chapter 2 Methods of Enquiry in Psychology	Goals of psychological enquiry, Nature of psychological data, some important methods in psychology, Analysis of Data, Limitations of Psychological Enquiry, Ethical Issues	Steps in conducting psychological research, Observational Method Experimental Method Correlational Research Survey Research Psychological Testing Case Study Quantitative Method , Qualitative Method
UNIT TEST- 1		25 marks	27-07-26 to 03-08-2026
AUGUST	Chapter 3 Human Development	Meaning of Development Factors Influencing Development Context of Development Stages of human development	Life-Span Perspective on Development, Prenatal Stage Infancy, Childhood, Challenges of Adolescence, Adulthood and Old Age
SEPTEMBER	Chapter 4 Sensory, Attentional and Perceptual Processes	Knowing the world, Nature and varieties of Stimulus, Sense Modalities, Attentional Processes, Perceptual Processes, The Perceiver, Principles of Perceptual Organisation, Perceptual Constancies, Illusions, Socio-Cultural Influences on Perception	Functional limitation of sense organs, Selective Attention, Sustained Attention, Processing Approaches in Perception, Monocular Cues and Binocular Cues
	TERM END EVALUATION	70 marks	28-09-26 to 9.10.2026

OCTOBER	Chapter 5 Learning	Nature of Learning, Paradigms of Learning, Classical Conditioning, Operant/Instrumental Conditioning, Observational Learning, Cognitive Learning, Verbal Learning, Skill Learning, Factors Facilitating Learning, Learning Disabilities	Determinants of Classical Conditioning, Determinants of Operant Conditioning Key Learning Processes
NOVEMBER	Chapter 6 Human Memory	Information Processing Approach Memory Systems ,Levels of Processing, Types of Long-term Memory, Nature and Causes of Forgetting, Enhancing Memory	The Stage Model Memory Systems : Sensory, Short-term and Long term Memories, Declarative and Procedural; Episodic and Semantic, Forgetting due to Trace Decay, Interference and Retrieval Failure, Mnemonics using Images and Organisation
DECEMBER	Chapter 7 Thinking	Nature of Thinking, The Processes of Thinking, Problem Solving, Reasoning, Decision-making, Nature and Process of Creative Thinking, Thought and Language, Development of Language and Language Use	Building Blocks of Thought,Nature of Creative Thinking Process of Creative Thinking
UNIT TEST-2		25 marks	14.12.2026 to 21.12.2026
JANUARY	Chapter 8 Motivation and Emotion	Nature of Motivation, Types of Motives Maslow's Hierarchy of Needs, Nature of Emotions, Expression of Emotions, Managing Negative Emotions, Enhancing Positive Emotions	Biological Motives Psychosocial Motives, Culture and Emotional Expression Culture and Emotional Labelling
FINAL EXAMINATION		70 MARKS	15.02.2027 TO 26.02.2027
<u>SEEN AND SIGNED BY:</u>			
	BAV, KAKKANAD	R SRUTHI	
	BVM, GIRINAGAR	ANJALIKRISHNA. T	
	BMV, TRIPUNITHURA	J SHILPA NAIR	

	BVM, EROOR	RADHIKA PRAVEEN	
	PORTIONS FOR EXAMINATION		
	FIRST UNIT TEST	27-07-2026 to 03-08-2026	CHAPTER 1 & 2
	TERM END	28-09-2026 to 09-10-2026	CHAPTER 1,2,3,& 4
	SECOND UNIT TEST	14-12-2026 to 21-12-2026	CHAPTER 5 & 6
	FINAL EXAM	15-02-2027 to 26-02-2027	ALL CHAPTERS

BHARATIYA VIDYA BHAVAN, KOCHI
STD XI -HISTORY
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027

MONTH	TOPIC	SUB TOPIC	CONCEPTS
JUNE	1. Writing and City Life	* Mesopotamia and its geography * Significance of urbanism * Development of writing * Urbanization in southern * Mesopotamia: temples and kings * Life in the city * The legacy of writing	* Origin of the term Mesopotamia * Society and geography * Occupation of the people * Movement of goods into cities * Uses of writing and literacy * Life in Ur and Mari * Contributions of Mesopotamia
JULY	2. An Empire Across Three Continents	* The early empire * The third century crisis * Gender, literacy, culture * Social hierarchies * Late antiquity	* Sources * Roman and Iranian Empire * Pillars of Roman Empire * Succession to the throne * Administration of the empire - urbanisation * Structure of family * Economic activities * Monetary system and bureaucracy
UNIT TEST 1 JULY 27 - AUGUST 3 (25 marks)			

AUG	3. Nomadic Empires	* Introduction * Social and political background * The career of Genghis Khan * The Mongols after Genghis Khan * Social political and military organisation * Conclusion: situating Genghis Khan and the Mongols in world history	* Sources * Rise of Mongol tribe * Life and achievements of Genghis Khan * The Mongols after Genghis Khan * Social, Political and Military Organisation * Development in Trade & communication in Mongolia * The legal code of law – Yasa
SEP	4. The Three Orders	* Introduction to feudalism - Second order * Knights * First order * Factors affecting social and economic relations * New agricultural technology * A fourth order * Crises of fourteenth century	* Sources to know the European society * Meaning and features of feudalism * The Three Orders * Technological changes in Agriculture * New towns and townspeople * Black death Bubonic plague * Political changes between 15th and 16th centuries
TERM END EVALUATION SEPTEMBER 28 - OCTOBER 9 (80 marks)			

OCT	5. Changing Cultural Traditions	* Revival of Italian cities * Universities and humanism * Artists and realism * Architecture * First printed books * Copernican Revolution	* Sources * Renaissance * Changes occurred in Europe * Renaissance from Italy * Revival of Italian cities * Humanism and its features * Contributions of Arabs * Artist and Realism * Print technology * Condition of women * Protestant Reformation * Scientific Revolution
NOV / DEC	6. Displacing Indigenous People	* European Imperialism * The native peoples * Mutual perceptions * North America * Native people lose their land * Constitution rights * Australia	* Sources * Geographical location of North America * Encounter of Europeans * Slavery system * Gold rush and the growth of industries * The winds of change
UNIT TEST 2 DECEMBER 14 - 21 (25 marks)			

JAN	7. Paths To Modernisation	* Introduction * Japan - political System * Meiji Restoration * Modernising the economy * Industrial workers * After Defeat reemerging as global power * China - Rise of communist party in China * Establishing new democracy	* Japan - political system * Meiji Restoration * China * Establishing republic
FINAL EXAMINATION FEB 15 - 26 (80 marks)			
PORTIONS FOR THE EXAMINATION 2026 - 2027			
PORTIONS FOR FIRST UNIT TEST JULY 27 - AUGUST 3 (25 MARKS) 1. Writing and City Life 2. An Empire Across Three Continents			
PORTIONS FOR TERM END EVALUATION SEPTEMBER 28 - OCTOBER 9 (80 MARKS) 1. Writing and City Life 2. An Empire Across Three Continents 3. Nomadic Empires 4. The Three Orders Map - 5 Marks			
PORTIONS FOR SECOND UNIT TEST DECEMBER 14 - 21 (25 MARKS) 5. Changing Cultural Traditions 6. Displacing Indigenous Peoples			

PORTIONS FOR FINAL EXAMINATION FEB 15 - 26 (80 MARKS)

1. Writing and City Life
2. An Empire Across Three Continents
3. Nomadic Empires
4. The Three Orders
5. Changing Cultural Traditions
6. Displacing Indigenous Peoples
7. Paths to Modernisation

Map - 5 Marks**MAP WORK**

1. Writing and City Life	Ur, Uruk, Mari, Babylon, Iran, Iraq, Syria, River Euphrates, River Tigris
2. An Empire Across Three Continents	Rome, Constantinople, Alexandria, Antioch, Carthage, River Rhine, River Danube, Mediterranean
3. Nomadic Empires	Karakoram, Tibet, Samarkhand, Nishapur, Bukhara, Bagdad, Moscow, Black Sea
6. Displacing Indigenous People	Australia - Darwin, Perth, Adelaide, Sydney, Canberra, Melbourne
7. Paths to Modernisation	Japan - Hokkaido, Honshu, Tokyo, Kyoto, Shikoku, Hiroshima, Kyushu, Nagasaki China - Peking, Shanghai, Huang He River, Yangtze River

BHAVAN'S VIDYA MANDIR, GIRINAGAR - DIVYA CLARANCE**BHAVAN'S VIDYA MANDIR, ELAMAKKARA – LIBY P PRASAD****BHAVAN'S ADARSHA VIDYALAYA, KAKKANAD – JEENA MATHEW**

BHAVAN'S MUNSHI VIDYASHRAM, THIRUVANKULAM- FAMILY KK

BHAVAN'S VIDYA MANDIR, EROOR – DIVYA V U

BVM GIRINAGAR

BHARATIYA VIDYA BHAVAN, KOCHI		
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027		
STD XI ECONOMICS		
MONTH	TOPIC	
JUNE	1. Introduction to Statistics	
	1. Introduction to Micro Economics	
	2. Collection of data	
JULY	2. Consumer's Equilibrium	
	3. Organization of data	
AUGUST	4. Demand	
	4. Presentation of Data	
SEPTEMBER	5. Measures of central tendency: mean (simple), median and mode	
	5. Producer Behaviour and Supply (Cost, Revenue & Production Fn)	
OCTOBER / NOVEMBER	6. Producer Behaviour and Supply (Producers equilibrium & SS)	
NOVEMBER	6. Correlation	
DECEMBER	7. Introduction to Index numbers	
JANUARY	7. Perfect Competition - Price Determination and simple applications	
FEBRUARY	REVISION / FINAL EXAM	
Name of the Teacher		
Name of the School		
Signature		
Syama C S		
BVM , Elamakkara		
Rajeev P Menon		
BVM, Eroor		
Renjana Thampy		
BAV, Kakkanad		
Devi Priya B Pilla		
BMV, Tripunithura		
Jalaja T R		
BVV, Thrikkakara		
Sreelekshmi R		
BNV, Velloor		
Hima Vikraman		
BVM, Girinagar		

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27			
CLASS XI - BUSINESS STUDIES (054)			
MON	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	NATURE AND PURPOSE 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,
		1.2 Business	Meaning of business with special reference to economic and non- economic activities,characteristics of business, concept of business, profession and employment. comparison of <u>business, profession and employment.</u>
		1.3 Classification of business activities	Industry and commerce, Industry- types: Primary, secondary, tertiary: Meaning and subgroups , Commerce -role of 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
JUNE-JULY	FORMS OF BUSINESS ORGANISATION	2.1 Introduction	Introduction
		2.2 Sole proprietorship	Concept, merits and limitation
		2.3 Joint Hindu Family Business	Concept
		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 2.6.1 Formation of company	Concept, merits, and limitations, types- private, public and One person company. Comparison of types of companies. <u>Formation of a company - stages, important documents to be</u>
		2.7 Choice of form of business organisation	Distinguish between various forms of business organisations. Choice of form of business organisation
UNIT TEST - I (25 MARKS) JULY 27-AUGUST 3			
AUGUST	PRIVATE, PUBLIC AND GLOBAL ENTERPRISE	3.1 Introduction	Introduction
		3.2 Private Sector and Public sector	Concept
		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.
		3.7 Public,Private partnership	Meaning and features.
AUGUST	BUSINESS SERVICES	4.1 Introduction	Introduction
		4.2 Nature of Services	Nature of services
		4.3 Types of business services	Meaning and types
		4.4 Banking	Types of bank accounts- savings, current, recurring, fixed deposit and mutiple option deposit account, banking services -
		4.5 Insurance	Principles and types- Life, Health, Fire and Marine - Concept
		4.6 postal services	Postal services- Mail,Registered post, parcel, speed post,
AUGUST/ SEPTEMBER	SOCIAL RESPONSIBILITIES OF BUSINESS AND BUSINESS ETHICS	6.1 Introduction	Introduction
		6.2 Concept of Social Responsibility	Concept
		6.3 Arguments for social responsibility	Case of social responsibilty
		6.4 Social responsibilty towards different	Social responsibilty towards different interest groups-
		6.5 Business and environmental protection	Role of business in environment protection

		6.6 Business Ethics	Concept and elements
TERM END EVALUATION (MARKS 80) SEPTEMBER 28- OCTOBER 9			
SEPTEMBER/ OCTOBER	EMERGING MODES OF 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
OCTOBER /NOVEMBER	SOURCES OF BUSINESS FINANCE	7.1 Introduction	Introduction
		7.2 Meaning, nature and significance of business finance	Meaning, nature and importance 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
NOVEMBER /DECEMBER	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
		8.2 Small scale enterprises	Meaning,MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act)
		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
		8.4 Government schemes and agencies for small scale industries	National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas
UNIT TEST - 2 (25 MARKS) DECEMBER 14-21			
DECEMBER/ JANUARY	INTERNAL TRADE	9.1 Internal trade	Meaning and types
		9.2 wholesale trade	Services rendered by a wholesaler.
		9.3 Retail Trade	Services rendered by a retailer, Types of retail- trade-Itinerant and small scale fixed shops retailers, Large scale retailers- Departmental stores, chain stores and Mail order business – concept and features.
		9.4 Goods and Services Tax	Concept and features.
JANUARY/ FEBRUARY	INTERNATIONAL TRADE	10.1 International Trade	Concept, benefits and scope.
		10.2 Export Trade	Meaning, Procedure and objectives.
		10.3 Import Trade	Meaning, Procedure and objectives.
		10.4 Documents involved in International Trade	Indent, letter of credit, shipping order, shipping bills, mate’s receipt (DA/DP)
		10.5 World Trade Organisation	Meaning and objective
FINAL EVALUATION (80 MARKS) FEBRUARY 15-26			

SEEN AND SIGNED

BVM, ELAMAKKARA : MINI MENON

BVM, GIRINAGAR : SAJITH S

BVM, EROOR : ANITHA V, SANGEETHA PAIR

BAV, KAKKANAD : DEEPA VARGHESE

RVV, THRIKKAKARA : SHITHA T R
BNV, VELLOOR : SRUTHI G S

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27			
CLASS XI-ACCOUNTANCY			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	Introduction to Accounting	1.1 Meaning of accounting	Accounting-concept, meaning, advantages and limitations, and role of accounting in business.
		1.2 Accounting as a source of Information	As a source of information, Types of Accounting information and their needs, Users of accounting information. Qualitative characteristics of accounting information
		1.3 Objectives of accounting	Maintenance of Records of Business Transaction Calculation of Profit and Loss Depiction of Financial position Providing Accounting Information to its users.
		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)
JUNE/ JULY	Theory Base of Accounting	2.1 Generally Accepted Accounting Principles	Fundamental accounting assumptions: Concept
		2.2 Basic Accounting Concepts	Business Entity, Money Measurement, Going Concern, 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
		2.5 Accounting Standards	Applicability of Accounting Standards (AS) and Indian Accounting Standards (Ind AS)
		2.6 Goods and Services Tax (GST)	Characteristics and Advantages.
JULY	Recording of Business Transactions	3.1 Voucher and Transactions	Source documents and Vouchers, Preparation of Vouchers
		3.2 Accounting Equation Approach	Meaning and Analysis.
UNIT TEST I- 27 JULY - 3 AUGUST			
AUGUST/ SEPTEMBER	Recording of Business Transactions	3.3 Rules of Debit and Credit.	Traditional and Modern Approach
		3.4 Books of Original Entry	Journal with GST
	Recording of Business Transactions	4.1 Cash Book	Simple cash book, cashbook with bank column and petty cashbook
		4.2 Special Purpose Books	Purchases book, sales book, Purchases return book, sales return book and Journal proper Note: Including trade discount, freight and cartage expenses for simple GST calculation.
SEPTEMBER	Recording of Business Transactions	4.3 Ledger	Format, posting from journal and subsidiary books, Balancing of accounts
	Recording of Business Transactions	5.1 Trial balance	Trial balance: objectives, meaning and preparation (Scope: Trial balance with balance method only)
TERM END EVALUATION - 28 SEPTEMBER - 9 OCTOBER			

OCTOBER	Rectification of errors	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.
OCTOBER/ NOVEMBER-	Bank Reconciliation Statement	6.1 Bank Reconciliation Statement	Need and preparation, Bank Reconciliation Statement
	Depreciation, Provisions and Reserves	7.1 Depreciation	Depreciation: Meaning, Features, Need, Causes, factors · Other similar terms: Depletion and Amortisation. Methods of Depreciation: i. Straight Line Method (SLM) ii. Written Down Value Method (WDV) Note: Excluding change of method · Difference between SLM and WDV; Advantages of SLM and WDV · Method of recording depreciation I. Charging to asset account ii. Creating provision for depreciation/accumulated depreciation account, Treatment of disposal of asset.
		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 vi. Difference between capital and revenue reserve
UNIT TEST II - 14 DECEMBER - 21 DECEMBER			

DECEMBER/ JANUARY	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.
		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.
JANUARY- FEBRUARY	Accounts of Incomplete Records	9.1 Incomplete Records	Features, reasons and limitations. Ascertainment of Profit/Loss by Statement of Affairs method (excluding conversion method)
FEBRUARY	REVISION		
FINAL EXAMINATION- 15 FEBRUARY TO 26 FEBRUARY			

Sl No	Name of the school	Name of the teacher	Signature
1	BVM, ELAMAKKARA	Renuka	
2	BVM, EROOR	Anitha V, Sangeetha Pai R	
3	BVV, THRIKKAKARA	Sherry Deepak	
4	BVM, GIRINAGAR	Ashmi M R	
5	BAV, KAKKANAD	Sudha Varma K	
6	BMV, TRIPUNITHURA	Vijayalakshmi B	
7	BNV, VELLOOR	Manju Balan	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027			
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	* Unit 1: Introduction To AI What is AI? Evolution of AI Types of AI Domains of AI AI Terminologies Benefits & limitations of AI * Unit 1 : Communication Skills-III: Methods of communication - Verbal - Non-verbal - Visual Communication styles - assertive, aggressive, passive aggressive, submissive, etc. Writing skills to the following: • Sentence • Phrase • Kinds of Sentences • Parts of Sentence • Parts of Speech • Articles • Construction of a Paragraph	Unit 1:INTRODUCTION TO ARTIFICIAL INTELLIGENCE TYPES AND DOMAINS OF AI AI TERMINOLOGIES BENEFITS AND LIMITATIONS OF AI Unit 1 : Communication Skills-III: Types of communication, Communication styles, Writing skills

July	* PART B Unit 2: Unlocking your Future in AI * PART B : UNIT 3 - PYTHON PROGRAMMING (Level 1) Level 1 : Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements	PART B Unit 2: Unlocking your Future in AI • The Global Demand • Some Common Job Roles In AI • Essential Skills and Tools for Prospective AI Careers • Opportunities in AI across Various Industries Python Basics	Unit 2: AI CAREERS AND INDUSTRY OPPORTUNITIES ESSENTIAL AI SKILLS AND TOOLS AI JOB ROLES APPLICATIONS OF AI IN INDUSTRIES UNIT 3 - PYTHON PROGRAMMING (Level 1) Level 1 : Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements
Unit Test I - 27/07/26 - 03/08/26			
August	PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2) PART B: Unit 5: DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS	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 • Data in Modelling and Evaluation PART B: UNIT 3 - Python (Level 2) * Simple List creation * Accessing elements in a list * Simple dictionary creation * Accessing elements in a Dictionary	Unit 5: DATA LITERACY AND DATA ANALYSIS STATISTICAL ANALYSIS AND DATA VISUALIZATION DATA PRE-PROCESSING AND MODELLING PRACTICAL APPLICATIONS USING PYTHON UNIT 3 - PYTHON PROGRAMMING (Level 2) * Simple List creation * Accessing elements in a list * Simple dictionary creation * Accessing elements in a Dictionary

September	PART A: Unit 2 : Self-Management Skills-III PART B: UNIT 8 – AI ETHICS AND VALUES PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)	Unit 2 : Self-Management Skills-III *1. Describe the importance of dressing appropriately, looking decent and positive body language 2. Describe the term grooming 3. Prepare a personal grooming checklist 4. Describe the techniques of self-exploration *1. Describe the important factors that influence in team building 2. Describe factors influencing team work *Meaning and importance of time management – setting and prioritizing goals, creating a schedule, making lists of tasks, balancing work and leisure, using different optimization tools to break large tasks into smaller tasks. PART B: Unit 8: AI Values (Ethical Decision Making) Ethics in Artificial Intelligence • The five pillars of AI Ethics • Bias, Bias Awareness, Sources of Bias • Mitigating Bias in AI Systems • Developing AI Policies • Moral Machine Game • Survival of the Best Fit Game	Unit 2 : Self-Management Skills-III PERSONALITY DEVELOPMENT AND SELF-MANAGEMENT TEAM BUILDING AND TEAMWORK TIME MANAGEMENT SKILLS GOAL SETTING AND TASK PLANNING Unit 8: AI Values (Ethical Decision Making) ETHICS IN ARTIFICIAL INTELLIGENCE BIAS AND FAIRNESS IN AI AI POLICIES AND RESPONSIBLE AI ETHICAL AI ACTIVITIES AND GAMES UNIT 3 - PYTHON PROGRAMMING (Level 2) * Python Libraries * Simple numpy array creation
Term End Evaluation I : 28/9/2026 - 9/10/26			

October	PART A: Unit 3: Information and Communication Technology Skills-III PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)	PART A: Unit 3: Information and Communication Technology Skills-III 1. Introduction to word processing. 2. Software packages for word processing. 3. Opening and exiting the word processor. 4. Creating a document 1. Editing text 2. Wrapping and aligning the text 3. Font size, type and face. 4. Header and Footer 5. Auto correct 6. Numbering and bullet 7. Creating table 8. Find and replace 9. Page numbering. 10. Printing document. 11. Saving a document in various formats. PART B: UNIT 3 - Python (Level 2)	Unit 3: Information and Communication Technology Skills-III Word Processor INTRODUCTION TO WORD PROCESSING DOCUMENT CREATION AND EDITING FORMATTING AND TABLE MANAGEMENT SAVING AND PRINTING DOCUMENTS UNIT 3 - PYTHON PROGRAMMING (Level 2) * Pandas (installation) * Creation of Series using List
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November	PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE PART A: Unit 4 : : Entrepreneurial Skills-III PART A: Unit 5 : Green Skills-III PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)	PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE • Understanding Human Language Complexity • Introduction to Natural Language Processing(NLP) - Emotion Detection and Sentiment Analysis, Classification Problems, Chatbot • Phases of NLP • Applications of NLP PART A: Unit 4 : Entrepreneurial Skills-III 1. Values in general and entrepreneurial values 2. Entrepreneurial value orientation with respect to innovativeness, independence, outstanding performance and respect for work 1. Attitudes in general and entrepreneurial attitudes 2. Using imagination/ intuition 3. Tendency to take moderate risk 4. Enjoying freedom of expression and action 5. Looking for economic opportunities 6. Believing that we can change the environment 7. Analyzing situation and planning	Unit 4 : Entrepreneurial Skills-III Introduction to Entrepreneurial Values Entrepreneurial Value Orientation Entrepreneurial Attitudes and Risk Taking Planning and Participation in Entrepreneurial Activities PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE Introduction to Natural Language Processing (NLP) Human Language and NLP Techniques Phases and Applications of NLP NLP-Based AI Systems Unit 5 : Green Skills-III Introduction to Green Economy Main Sectors of Green Economy Policy Initiatives for Green Economy in India Stakeholders and Sustainable Development UNIT 3 - PYTHON PROGRAMMING (Level 2) DataFrame creation using Numpy Array
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		PART A: Unit 5 : Green Skills-III 1. Main sectors of green economy- Ewaste management, green transportation, renewal energy, green construction, water management 2. Policy initiativesfor greening economy in India 1. Stakeholders in green economy 2. Role of government and private agenciesin greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries PART B: UNIT 3 - Python (Level 2) DataFrame creation using Numpy Array	
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 Introduction to Machine Learning Types of Machine Learning Supervised Learning Techniques Correlation and Linear Regression
Unit Test II - 14/12/26 - 21/12/26			

January	UNIT 6 – MACHINE LEARNING ALGORITHMS PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT PART B :UNIT 3 - PYTHON PROGRAMMING (Level 2)	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: PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT Design Thinking Empathy Map Sustainable Development Goals PART B: UNIT 3 - Python (Level 2) DataFrame creation using CSV Scikit-learn CAPSTONE PROJECT (Project Work)	UNIT 6 – MACHINE LEARNING ALGORITHMS Classification, Clustering Unit 5: CAPSTONE PROJECT Introduction to Design Thinking Understanding Empathy Mapping Sustainable Development Goals (SDGs) Problem Solving for Social Good UNIT 3 - PYTHON PROGRAMMING (Level 2) DataFrame creation using CSV Scikit-learn
February	Capstone Project / Practical and Revision Practical Exam (Before February 10)	Capstone Project / Practical and Revision	Capstone Project / Practical and Revision
Final Examination: 15/02/2027 - 26/02/27			

S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BMV, TRIPUNITHURA	Bhavya G Menon	
2	BVM, ELAMAKKARA	Anju Jayan	
3	BVM, EROOR	Sony I Thekkekara	
4	BVM, GIRINAGAR	Shanti Karunil Tresa Joseph	
5	BVV, THRIKKAKARA	Anagha Mani	
6	BNV, VELOOR	Anoop M A	
7	BAV, KAKKANAD	Neethesh N Shenoy	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
INFORMATICS PRACTICES(065)
YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027

CLASS: XI

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	Concept of conditional statement Concept of Iteration

UNIT TEST 1 (27/07/2026 - 03/08/2026) MARKS: 25

TOPICS- Basics of Python programming, Selection statements(loops not included for the exam)

MARKING SCHEME:

Competency Focused Questions in the form of MCQs/ Case Based Questions,

Source-based Integrated Questions or any other type = 50% (12.5 MARKS)

Select response type questions (MCQ) = 20%(5 MARKS)

Constructed response questions = 30% (7.5 MARKS)

(Short Answer Questions/Long Answer type Questions, as per existing pattern)

Topic-wise mark distribution:

Basics of Python programming : 15 marks

Selection statements(loops not included for the exam): 10 marks

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 Concepts of Dictionary : Key-value pair

TERM END EVALUATION (28/9/2026 - 09/10/2026) MARKS: 70

TOPICS- Basics of Python programming, Control statements, Lists

MARKING SCHEME:

Competency Focused Questions in the form of MCQs/ Case Based Questions,

Source-based Integrated Questions or any other type = 50% (35 MARKS)

Select response type questions (MCQ) = 20% (14 MARKS)

Constructed response questions = 30% (21 MARKS)

(Short Answer Questions/Long Answer type Questions, as per existing pattern)

Topic-wise mark distribution :

Introduction to Python programming: 20 marks

Selection statement: 15 marks

Loops: 15 marks

List: 20 marks

(Mathematical programs such as Prime Number, Fibonacci Series, and Perfect Number can be excluded.)

OCTOBER	Unit: 2 Introduction to Python	Dictionary: concept of key-value pair, creating, initializing, traversing, Updating and deleting elements in a Dictionary Dictionary: dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()	Concept of Dictionary methods and built-in functions.
NOVEMBER	Unit 2: Introduction to Python	Introduction to NumPy: Introduction, Creation of 1-D NumPy Arrays from List 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	Concept of Numpy
	Unit 1 Introduction to Computer System	(Not included for exam) 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	Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT (introduction)	Concept of Database and Structured query language, Data types in MySQL, SQL for data definition
UNIT TEST 2 (14/12/2026 - 21/12/2026) MARKS: 25 TOPICS- Dictionary built in functions, Introduction to NumPy, Database concepts and the Structured Query Language ,Introduction to creating database, creating tables, drop , alter) [Data Query- select excluded] MARKING SCHEME: Competency Focused Questions in the form of MCQs/ Case Based Questions, Source-based Integrated Questions or any other type = 50% (12.5 MARKS) Select response type questions (MCQ) = 20%(5 MARKS) Constructed response questions = 30% (7.5 MARKS) (Short Answer Questions/Long Answer type Questions, as per existing pattern) Topic-wise mark distribution: Dictionary - 11 marks Introduction to NumPy - 2 marks Database concepts - 7 marks Structured Query Language - 5 marks			
	Unit 3: Database concepts and the Structured Query Language	Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE	Data insertion, Data Updation and Deletion

JANUARY	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
FINAL EXAMINATION (15/02/2027 - 26/02/2027) MARKS : 70 TOPICS- Introduction to Python programming, Database concepts and the Structured Query, Introduction to the emerging trends MARKING SCHEME: Competency Focused Questions in the form of MCQs/ Case Based Questions, Source-based Integrated Questions or any other type = 50% (35 MARKS) Select response type questions (MCQ) = 20% (14 MARKS) Constructed response questions = 30% (21 MARKS) (Short Answer Questions/Long Answer type Questions, as per existing pattern) Topic-wise mark distribution: Introduction to Python programming: 30 marks Database concepts and the Structured Query : 30 marks Introduction to the emerging trends : 10 marks			

S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BVM, ELAMAKKARA	ANJU JAYAN, SRUTHY KRISHNAN	
2	BVM, EROOR	SHEBA K GEORGE	
3	BVV, THRIKKAKARA	VIDYA MOHAN	
4	BVM, GIRINAGAR	VANDANA P	
5	BAV, KAKKANAD	ANJILA S RAJAN, NEETHESH N SHENOY	
6	BMV, TRIPUNITHURA	SUSMITHA S SHENOY	
7	BMV, VELLOOR	ANISH M N, DEVISREE R	