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

MONTH	MAIN TEXT	SUPPLEMENTARY READER	GRAMMAR	WRITING
JUNE (22 days)	L1. The Portrait of a Lady P1. A Photograph	L1. The Summer of the Beautiful White Horse	G1. Tenses	W1. Poster
JULY (24 days)	P2. The Laburnum Top L2. We 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 (25/07/2025 - 02/08/2025)				
AUGUST (21 days)	P3. The Voice of the Rain	L2. The Address		R1. Note Making W2. Speech
SEPTEMBER (18 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 (10/10/2025- 23/10/2025)				
NOVEMBER (23 days)	L4.The Adventure P5.Father to Son		G4. Reordering of sentences	
DECEMBER (18 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 (12/12/2025 - 20/12/2025)				
JANUARY (23 days)		L5. The Tale of Melon City	G5. Transformation of sentences	Debate
FEBRUARY (22 days)	**REVISION**			
FINAL EXAMINATION (13/02/2026 -25/02/2026)				

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA				
YEAR PLAN FOR THE ACADEMIC YEAR 2025-2026				
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 (RxRxR). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions with their graphs. Sum, difference, product and quotient of functions.

JULY	4	**COMPLEX NUMBERS & QUADRATIC EQUATIONS**	Introduction Complex numbers Algebra of complex numbers Argand plane	Need for complex numbers, especially $\sqrt{-1}$ to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.
UNIT TEST- I (Chapters - 1, 2 & 4)				
AUGUST	8	**SEQUENCES AND SERIES**	Introduction Sequences Series Arithmetic Mean Geometric progression Relationship between AM and GM	Sequences & Series, Arithmetic Mean (A.M.) Geometric Progression (GP), general term of a G.P, sum of first n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.
SEPTEMBER	3	**TRIGONOMETRIC FUNCTIONS**	Introduction Angles Trigonometric functions Trigonometric functions of sum and diffence of some angles	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the trigonometric identity $\sin^2x + \cos^2x = 1$, for all x.Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing sin (x±y) and cos (x±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), sinx + siny, sinx – siny, cos x+ cos y, cos x – cos y. Identities related to sin2x,cos2x,tan2x,sin3x,cos3x and tan3x.

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

	10	**CONIC SECTIONS (NOT FOR 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 (Chapters - 13, 9, 11, 6 & 7)				
JANUARY	12	**LIMITS AND DERIVATIVES**	Introduction Intuitive idea of derivatives Limits Limits of Trigonometric functions Derivatives	Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions.Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.
	5	**LINEAR INEQUALITIES**	Introduction Inequalities Algebraic solutions of linear inequalities in one variable	Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.
FEBRUARY	14	**PROBABILITY**	Introduction Random experiments Event Axiomatic approach to probability	Events, occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes, probability of an event , probability of 'not' ,'and' and 'or' events.
FINAL EXAMINATION				

BHARATIYA VIDYA BHAVAN, KOCHI			
YEAR PLAN -2025-2026			
STD :XI PHYSICS			
MONTH	**TOPIC**	**SUB-TOPICS**	**CONCEPTS**
JUNE	**CHAPTER 1- UNITS AND MEASUREMENT** **CHAPTER 2- MOTION IN A STRAIGHT LINE**	Need for measurement: significant figures. Dimensions of physical quantities Describing motion, Relations for uniformly accelerated motion (graphical treatment).	Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures, Determining the uncertainty in result. Dimensions of physical quantities, dimensional analysis and its applications. 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	**MOTION IN A STRAIGHT LINE (CONTD ...)** **CHAPTER 3- MOTION IN A PLANE** **CHAPTER 4- LAWS OF MOTION(UPTO FRICTION)**	Instantaneous velocity Scalar and vector quantities; Vector operations Resolution of vectors Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion uniform circular motion 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 25-Aug 2 UNITS AND MEASUREMENT, MOTION IN A STRAIGHT LINE , MOTION IN A PLANE UPTO PROJECTILE MOTION PROJECTILE MOTION NOT INCLUDED .			
AUGUST	**LAWS OF MOTION (CONT..)**	Friction	Static and kinetic friction,laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion:Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).
	CHAPTER 5-WORK ENERGY AND POWER	Work Energy Collision	Work done by a constant force and a variable force ,kinetic energy, work-energy theorem,power,Notion of potential energy,potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle. Elastic and inelastic collisions in one and two dimensions.

SEPTEMBER	**CHAPTER 6- SYSTEM OF PARTICLES AND ROTATIONAL MOTION**	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).
	CHAPTER 7- GRAVITATION	Kepler's laws of planetary motion Universal law of gravitation Gravitational potential energy Escape speed, orbital velocity of a satellite	Kepler's laws of planetary motion universal law of gravitation.Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential Escape speed, orbital velocity of a satellite,Energy of an orbiting satellite.

OCTOBER	**CHAPTER 8- MECHANICAL PROPERTIES OF SOLIDS**	Elastic behaviour of solids, Modulus of Elasticity Elastic Energy	Elasticity, Stress-strain relationship, Hooke's law,Young's modulus, bulk modulus, shear modulus of rigidity(qualitative idea only), Poisson's ratio; elastic energy,Application of elastic behavior of materials (qualitative idea only).
TERM END EXAMINATION I -(Oct 10-Oct 23) UNITS AND MEASUREMENT, MOTION IN A STRAIGHT LINE , MOTION IN A PLANE (14 Marks), LAWS OF MOTION , WORK ENERGY AND POWER & SYSTEM OF PARTICLES AND ROTATIONAL MOTION			

NOVEMBER	**CHAPTER 9- MECHANICAL PROPERTIES OF FLUIDS**	Pressure,Viscosity Surface tension, Capillary rise.	Pressure due to a fluid column; Pascal's law and its applications, (hydraulic lift and hydraulic brakes), Effect of gravity on fluid pressure.Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications (Torricelli's law and Dynamic lift). 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
	CHAPTER 10 - THERMAL PROPERTIES OF MATTER	Heat ,heat transfer, blackbody radiation	Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.Heat transfer-conduction, convection and radiation, thermal conductivity,qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law .
	CHAPTER 13 - OSCILLATIONS	Periodic motion,simple harmonic motion energy in SHM	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.
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.
UNIT TEST II (Dec 12-Dec 20) **GRAVITATION** **MECHANICAL PROPERTIES OF SOLIDS & MECHANICAL PROPERTIES OF FLUIDS INCLUDING BERNOULLI'S THEOREM**			
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 (13Feb-25Feb)** **UNITS AND MEASUREMENT** **MOTION IN A STRAIGHT LINE & MOTION IN A PLANE), LAWS OF MOTION ,** **WORK ENERGY AND POWER ,** **SYSTEM OF PARTICLES AND ROTATIONAL MOTION , GRAVITATION** **MECHANICAL PROPERTIES OF SOLIDS & FLUIDS ,THERMAL PROPERTIES OF MATTER & THERMODYNAMICS ,KINETIC THEORY OF GASES ,** **OSCILLATIONS & WAVES .**

BHARATIYA VIDYA BHAVAN, KOCHI
YEAR PLAN FOR THE YEAR 2025-2026
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, isotopes and isobars. Thomson's model and its	Subatomic particles, atomic number, mass number, isotopes, Isobars, Nucleus, Electromagnetic theory of radiations, particle nature of radiation, black body radiations, photo electric effect, spectra, Bohr’s postulates for hydrogen atom, negative energy of electron Dual nature of matter, orbits,

		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.	orbitals, principal quantum number, azhimuthal 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 -25-AUG-2) PORTIONS 1.SOME BASIC CONCEPTS OF CHEMISTRY 2.STRUCTURE OF ATOM			
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 -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of	Doberenier’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 in valence or oxidation state, Anomalous properties of second period elements, Periodic trends in chemical reactivity.

		elements with atomic number greater than 100.	
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 homonuclear diatomic molecules (qualitative idea only), Hydrogen bond.	Valence bond, Lewis structure, Octet rule, limitations of octet rule, formal charge, ioinc 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, seessaw, square pryramidal, square planar, PE curve for the H_2 molecule formation, Non existence of He_2 molecule, Types of hybridisation sp,sp2,sp3,dsp2,d2sp3 ,atomic and molecular orbitals MO energy level diagram, Hydrogen bonding- definition, reason, consequences

SEPTEMBER	GASEOUS STATE	Qualitatitive 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, Irrevrsible process, Isothermal, abdiabatic, isobaric, isochoric processes, First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH, Hess's law of constant heat summation 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(OCTOBER 10-23) **PORTIONS** **1.SOME BASIC CONCEPTS OF CHEMISTRY** **2.STRUCTURE OF ATOM** **3. CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES.** **4. CHEMICAL BONDING AND MOLECULAR STRUCTURE**			
NOVEMBER	6.EQUILIBRIUM	Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of massaction, 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, Pkw, 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 PORTIONS 5.CHEMICAL THERMODYNAMICS. 6.EQUILIBRIUM.			
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, types of organic reactions.	Tetravalency of carbon, classification of organic compounds, IUPAC naming, functional group, homologous series, inductive effect, electromeric effect, resonance and hyper conjugation or no bond resonance, Stabilty of cabocations, free radicals, classification of intermediates in to electrophiles andnucleophiles, Purification methods - crystallisation, sublimation, distillation, fractional distillation, distillation under reduced pressure, steam distillation, Lassaigne's test, Dumas method, Kjeldahl's method.
JANUARY	9.HYDROCARBONS	Classification of Hydrocarbons Aliphatic Hydrocarbons: Alkanes - Nomenclature, isomerism, conformation	Hydrocarbons, classification of hydrocarbons, IUPAC nomenclature, physical and chemical properties, catalytic reduction,free radical halogenation, combustion,

		(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 ofpreparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic.	Reforming,aromatisation, pyrolysis, Markovnikov's law, peroxide effect, ozonlysis, polymerisation, acidic character of alkynes, addition reactions, resonance, aromaticity, Huckel's rule, electrophilic substitution, Arenium ion, adddtion reactions by benzene, directing influence, Carcinogenicity and toxicity

ANNUAL EXAMINATION-70 marks

13/02/2025 TO 25/02/2025

1.Some basic concepts of chemistry
2.Structure of atom .
3.Classification of elements and periodocity in properties.
4. Chemical bonding and molecular structure .
5.Chemical thermodynamics .
6.Equilibrium.
7.Redox reactions.
8.Organic chemistry - Some basic principles and techniques .
9.Hydrocarbons.

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
STD XI – BOTANY – YEAR PLAN			
2025-2026			
MONTH	**TOPIC**	**SUB TOPICS**	**CONCEPTS**
JUNE	1.DIVERSITY IN THE LIVING WORLD 2.BIOLOGICAL CLASSIFICATION	1.1 What is 'Living'? [not included] 1.2 Diversity in the Living World 1.3 Taxonomic Categories [Taxonomical Aids not included] 2.1 Kingdom Monera 2.2 Kingdom Protista 2.3 Kingdom Fungi	Characteristics of Living things. Taxonomic Hierarchy Binomial nomenclature. Salient features of five kingdom classification Salient features of five major kindom with examples.
JULY	2.BIOLOGICAL CLASSIFICATION CONTD ..... 3. PLANT KINGDOM	2.4 Kingdom Plantae 2.5 Kingdom Animalia 2.6 Viruses, Viroids and Lichens 3.1 Algae 3.2 Bryophytes 3.3 Pteridophytes	Salient features of plant kingdom. Salient features of various divisions of plant kingdom with examples.
AUGUST	3. PLANT KINGDOM CONTD.... (Angiosperms, Plant life cycle,Alternation of generation NOT included) 5.MORHOLOGY OF FLOWERING PLANTS. Description of one family Solanaceae (To be dealt along with the relevant experiments of the practical syllabus	3.4 Gymnosperm 3.5 Angiosperm [upto Dicotyledons and Monocotyledons] 5.1 The Root 5.2 The Stem 5.3 The Leaf 5.4 The Inflorescence 5.5 The Flower	Taproot and fibrous root system. Parts of root.
UNIT TEST I Portions (JULY 25 th TO AUGUST 2nd) Living world , Biological classification , Plant Kingdom (up to 3.3 Pteridophytes included) CHAPTERS 1,2 & 3 (upto 3.3-included)			
SEPTEMBER	5.MORHOLOGY 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 Description of Some Important Families.5.9.2 SOLANACEAE Included [5.9.1 & 5.9.3 not included] 6.1 The Tissues 6.2 The Tissue System	Parts of fruits Drupe Parthenocarpic fruits Monocotyledonous and Dicotyledonous seed Floral symbols , diagram and Floral formula Description of Vegetative and floral features of Plant Family SOLANACEAE Meristematic tissues Permanent tissues Simple tissues Complex tissues
OCTOBER	6.ANATOMY OF FLOWERING PLANTS. CONTD.. 10.CELL CYCLE AND CELL DIVISION.	6.3 Anatomy of Dicotyledonous and Monocotyledonous Plants. [6.4 Secondary Growth not included] 10.1 Cell Cycle 10.2 M Phase 10.3 Significance of Mitosis	Epidermal tissue system Ground tissue system Vascular tissue system Various stages of mitosis and its significance.
TERM END EVALUATION I [OCTOBER 10th TO OCTOBER 23rd] 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. 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...	11.7 Where are the ATP and NADPH Used? 11.8 The C4 Pathway 11.9 Photorespiration 11.10 Factors affecting Photosynthesis	Kranz Anatomy-C4Pathway Photorespiration Factors affecting Photosynthesis-Law of limiting factors
	. 12..RESPIRATION IN PLANTS	12.1 Do Plants Breathe? 12.2 Glycolysis 12.3 Fermentation 12.4 Aerobic Respiration	Cellular respiration Steps of glycolysis. Major pathways of anaerobic respiration The citric acid cycle.
DECEMBER	**UNIT TEST II [DECEMBER 12th TO DECEMBER 20th] PORTIONS CHAPTERS 6 &10 Anatomy of flowering plants and Cell cycle and Cell division**		
JANUARY	12..RESPIRATION IN PLANTS. CONTD...	12.5 The Respiratory Balance Sheet 12.6 Amphibolic Pathway 12.7 Respiratory Quotient	The Respiratory Balance Sheet Amphibolic Pathway Respiratory Quotient
	13. PLANT GROWTH AND DEVELOPMENT.	13.1 Growth 13.2 Differentiation, Dedifferentiation and Redifferentiation 13.3 Development [13.5 & 13.6 Photoperiodism & Vernalisation not included]	Characteristics of growth. Phases of growth. Growth Rates. Conditions of Growth Plant Growth Regulators.
FEBRUARY	13. PLANT GROWTH AND DEVELOPMENT. 13.4 Plant Growth Regulators , Role of various Growth Regulators -Auxin,Gibberlin,Cytokinin,Ethylene and Abscissic acid		
	FINAL EXAMINATION [FEBRUARY 13 th TO FEBRUARY 25 th] FULL PORTIONS CHAPTERS 1,2,3,5,6,10,11,12&13		

BHARATIYA VIDYA BHAVAN, KOCHI STD XI ZOOLOGY YEAR PLAN FOR THE ACADEMIC YEAR 2025-26	
MONTH	**TOPIC**
JUNE	CHAPTER 4 ANIMAL KINGDOM
JULY	CHAPTER 7 STRUCTURAL ORGANISATION IN ANIMALS CHAPTER 8 CELL- THE UNIT OF LIFE **UNIT TEST -I (July 25th - August 2nd)** CHAPTER 4 ANIMAL KINGDOM
AUGUST	CHAPTER 9 BIOMOLECULES CHAPTER 14 BREATHING AND EXCHANGE OF GASES
SEPTEMBER	CHAPTER15-BODY FLUIDS AND CIRCULATION CHAPTER -16-EXCRETORY PRODUCTS AND THEIR ELIMINATION
OCTOBER	CHAPTER16-EXCRETORY PRODUCTS AND THEIR ELIMINATION CONTINUED.. **TERM END EVALUATION 1 (OCT 10th-23rd)** CHAPTER 4 ANIMAL KINGDOM,7 STRUCTURAL ORGANISATION IN ANIMALS, 8 CELL- THE UNIT OF LIFE AND 9 BIOMOLECULES
NOVEMBER	CHAPTER 17-LOCOMOTION AND MOVEMENT CHAPTER 18 - NEURAL CONTROL AND COORDINATION
DECEMBER	CHAPTER 18 - NEURAL CONTROL AND COORDINATION cond.. UNIT TEST II -DECEMBER (12 th - 20th) CHAPTER- 14 BREATHING AND EXCHANGE OF GASES,CHAPTER15-BODY FLUIDS AND CIRCULATION
JANUARY	CHAPTER-19 CHEMICAL COORDINATION AND INTEGRATION
FEBRUARY	REVISION **FINAL EXAMINATION FEB 13th - 25th**, FULL PORTIONS

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA	
YEAR PLAN - 2025-'26	
STD : XII	**SUBJECT : ECONOMICS (030)**
	PART A–MACROECONOMICS
March/ April	Unit 2: Money &Banking
June	Unit 1-National Income and related aggregates
July	Unit 4: Government budget and the economy Unit 5: Balance of Payments & Foreign Exchange
August	Unit 3: Determination of income and employment

	PART-B- INDIAN ECONOMIC DEVELOPMENT
March/April	Unit I: Development Experience (1947-90) 1: Indian economy on the eve of Independence 2:Indian economy 1950-1990
June	Unit II: Economic Reforms since 1991 3: Liberalisation, Privatisation and Globalisation: an appraisal Unit III: Current challenges facing theIndian Economy 4: Human Capital Formation in India
July	Unit III: current challenges facing the Indian Economy 5: Rural development
August	Unit III: Current challenges facing the Indian Economy 6: Employment: Growth, Informalisation and other issues
September	Unit III: Current challenges facing the Indian Economy 7: Environment and Sustainable Development
November	Unit IV: Development experiences of India: A comparison with neighbours 8: Comparative development experiences of India and its neighbours

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

YEAR PLAN FOR THE ACADEMIC YEAR 2025-26

CLASS XI - BUSINESS STUDIES (054)

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
JUNE	EVOLUTION AND FUNDAMENTALS OF BUSINESS	1.1 Introduction	History of Trade and Commerce in India,Indigenous Banking System, Rise of Intermediaries,Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy.
		1.2 Business	Meaning of business with special reference to economic and non- economic activities,characteristics of business, comparison of business, profession and employment.
		1.3 Classification of business activities	Industry and commerce, Industry- types: Primary, secondary, tertiary: Meaning and subgroups , Commerce - Trade and Auxiliaries to trade.
		1.4 Objectives of business	Objectives of business- Economic & Social, Examine role of profit in business.
		1.5 Business Risk	Concept, nature and causes
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	Concept, merits, and limitations, types- private, public and One person company. Comparison of types of companies. Formation of a company - stages, important documents to be used in formation of a company.
		2.7 Choice of form of business organisation	Distinguish between various forms of business organisations. Choice of form of business organisation
UNIT TEST - I (25 MARKS) JULY 25-AUGUST 2			
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, banking services - Bank Draft, Bank overdraft, cash credit, E- banking.
		4.5 Insurance	Principles and types- Life, Health, Fire and Marine - Meaning.
		4.6 Communication services	Postal services- Mail,Registered post, parcel, speed post, courier.
	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
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 interest groups	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 (25 MARKS) OCTOBER 10-23			
OTOBER /NOVEMBER	SOURCES OF BUSINESS FINANCE	7.1 Introduction	Introduction
		7.2 Meaning, nature and significance of business finance	Meaning, nature and significance 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 Entrepreneurship.
		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 areas
		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
UNITTEST-II(25MARKS)DECEMBER10-20			
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)			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2025-26			
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 User
		1.4 Basic Terms in Accounting	Entity, Business Transaction, Capital, Drawings\Liabilities (Non-Current and Current). Assets (Non-Current, Current); Expenditure (Capital and Revenue), Expense, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount)
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
		2.5Accounting Standards	Applicability of Accounting Standards (AS) and Indian Accounting Standards (IndAS)
		2.6 Goods and Services Tax (GST)	Characteristics and Advantages.
JULY	**Recording of Business Transactions**	3.1Voucher and Transactions	Source documents and Vouchers, Preparation of Vouchers
		3.2 Accounting Equation Approach	Meaning and Analysis.
UNIT TEST I (25 July – 2 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, cash book 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/ OCTOBER	**Recording of Business Transactions**	4.3 Ledger	Format, posting from journal and subsidiary books, Balancing of accounts
OCTOBE R	**Recording of Business Transactions**	5.1 Trial balance	Trial balance: objectives, meaning and preparation (Scope: Trial balance with balance method only)
TERM END EVALUATION (10 October – 23 October)			

OCTOBER-NOVEMBER	**Recording of Business Transactions**	5.2 Rectification of Errors	Errors: classification errors of omission, commission, principles, and compensating; their effect on Trial Balance. Detection and rectification of errors Preparation of suspense account.
NOVEMBER-DECEMBER	**Recording of Business Transactions**	6.1 Bank Reconciliation Statement	Need and preparation, Bank Reconciliation Statement
NOVEMBER-DECEMBER	**Recording of Business Transactions**	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 Difference between capital and revenue reserve
UNIT TEST II (12 December – 20 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 (13 February - 25 February)			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
INFORMATICS PRACTICES(065)
YEAR PLAN FOR THE ACADEMIC YEAR 2025-2026

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
AUGUST	Unit: 2 Introduction to Python	Control Statements: for loop Lists: list operations - creating, initializing, traversing and manipulating lists	Concept of Iteration Concept of List
SEPTEMBER	Unit: 2 Introduction to Python	list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()	Concept of List
OCTOBER	Unit: 2 Introduction to Python	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements. Dictionary: dictionary methods and built-in functions – dict(), len(), keys(), values(), items(),update(), del(), clear()	Concepts of Dictionary : Key-value pair Concept of Dictionary methods and built-in functions.

NOVEMBER	Unit 2: Introduction to Pyth	Introduction to NumPy: Introduction, Creation of NumPy Arrays from List	Concept of Numpy
	Unit 1 Introduction to Computer System	Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.	Concepts of Computer System
DECEMBER	Unit 3: Database concepts and the Structured Query Language	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key, Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER	Concept of Database and Structured query language,Data types in MySQL, SQL for data definition
	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

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2025-'26			
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 What is data? What are different types of data? Types of Machine Learning Cognitive Computing (Perception, Learning, Reasoning) Terminologies Benefits & limitations of AI * Unit 1 : Communication Skills-III: Session 1: Introduction to Communication Session 2: Verbal Communication Session 3: Non-verbal Communication Session 4: Pronunciation Basics Session 5: Communication Styles — Assertiveness Session 6: Saying No — Refusal Skills Session 7: Writing Skills — Parts of Speech Session 8: Writing Skills — Sentences	Unit 1: Introduction To AI: Artificial Intelligence (AI) , Machine Learning (ML) and Deep Learning (DL) Unit 1 : Communication Skills-III: Types of communication, Communication styles, Writing skills, communication 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	Unit 2: Unlocking your Future in AI: • Common Job Roles In AI • AI Careers • Opportunities in AI UNIT 3 - PYTHON PROGRAMMING (Level 1) Level 1 : Basics of python programming, character sets, tokens, modes, operators, datatypes, Control Statements

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** **• 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**	**Unit 5: DATA LITERACY – DATA COLLECTION TO DATA ANALYSIS** **UNIT 3 - PYTHON PROGRAMMING (Level 2)**
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** **Session 1: Strength and Weakness Analysis** **Session 2: Grooming** **Session 3: Personal Hygiene** **Session 4: Team Work** **Session 5: Networking Skills** **Session 6: Self-motivation** **Session 7: Goal Setting** **Session 8: Time Management** **PART B: Unit 8: AI Values (Ethical Decision Making)** **AI: Issues, Concerns and Ethical Considerations** **PART B: UNIT 3 - Python (Level 2)** *** Simple numpy array creation**	**Unit 2 : Self-Management Skills-III** **Self Awareness, Importance of working in team** **Unit 8: AI Values (Ethical Decision Making)** **AI applications, Ethics , Bias , Jobs in AI age** **UNIT 3 - PYTHON PROGRAMMING (Level 2)**

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 Session 1: Introduction to ICT Session 2: Basic Interface of LibreOffice Writer Session 3: Saving, Closing, Opening and Printing Document Session 4: Formatting Text in a Word Document Session 5: Checking Spelling and Grammar Session 6: Inserting Lists, Tables, Pictures, and Shapes Session 7: Header, Footer and Page Number Session 8: Tracking Changes in LibreOffice Writer	Unit 3: Information and Communication Technology Skills-III Basic operations in Libre Office Writer UNIT 3 - PYTHON PROGRAMMING (Level 2)
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 PART A: Unit 4 : Entrepreneurial Skills-III • Session 1: Introduction to Entrepreneurship • Session 2: Values of an Entrepreneur • Session 3: Attitude of an Entrepreneur • Session 4: Thinking Like an Entrepreneur • Session 5: Coming Up with a Business Idea • Session 6: Understanding the Market • Session 7: Business Planning PART A: Unit 5 : Green Skills-III • Session 1: Sectors of Green Economy • Session 2: Policies for a Green Economy • Session 3: Stakeholders in Green Economy • Session 4: Government and Private Agencies PART B: UNIT 3 - Python (Level 2)	Unit 4 : Entrepreneurial Skills-III Functions and qualities of an entrepreneur PART B: UNIT 7 – LEVERAGING LINGUISTICS AND COMPUTER SCIENCE Unit 5 : Green Skills-III • Green economy initiatives • Importance of green economy UNIT 3 - PYTHON PROGRAMMING (Level 2)
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

January	**UNIT 6 – MACHINE LEARNING ALGORITHMS** **PART B: Unit 5: INTRODUCTION TO CAPSTONE PROJECT(Practical only) - (Theory questions can be asked only for Annual exam)** **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(Practical only)** **Design Thinking** **Empathy Map** **Sustainable Development Goals** **PART B: UNIT 3 - Python (Level 2)** **DataFrame creation using CSV**	**UNIT 6 – MACHINE LEARNING ALGORITHMS** **Unit 5: CAPSTONE PROJECT** **UNIT 3 - PYTHON PROGRAMMING (Level 2)**
February	**Capstone Project / Practical and Revision** **Practical Exam (Before February 10)**	**Capstone Project / Practical and Revision**	**Capstone Project / Practical and Revision**

PHYSICAL ACTIVITY TRAINER

YEAR PLAN CLASS XI 2025-2026

(SUBJECT CODE – 845)

JUNE & JULY

UNIT 1

Role of Physical Education and Child Development

PRACTICAL : PREPARE CHART ON HEALTH TRIANGLE

FIRST UNIT TEST BEGINS ON 25.07.2025

AUGUST & SEPTEMBER

UNIT :2

PROPS AND EQUIPMENT

PRACTICAL

OCTOBER & NOVEMBER

UNIT : 3

HYGIENE AND SAFETY , PRACTICAL

TERM END EVALUATION BEGINS ON 10.10.25

DECEMBER & JANUARY

UNIT :4

SPORTS AND FITNESS ,PRACTICAL

SECOND UNIT TEST BEGINS 0N 12.12.2025 (CHAPTER – 3)

FEBRUARY

REVISION

TERM AND EVALUATION BEGINS 0N 13.02.2026