

BHARATIYA VIDYA BHAVAN , KOCHI
YEAR PLAN 2026-2027
STD XII ENGLISH

MONTH	MAIN TEXT (FLAMINGO)	SUPPLEMENTARY READER (VISTAS)	WRITING
MARCH / APRIL (25 DAYS)	THE LAST LESSON LOST SPRING MY MOTHER AT SIXTY-SIX (P)	THE THIRD LEVEL THE TIGER KING	NOTICE
UNIT TEST 1 (JUNE 8 - 16)			
JUNE (23 DAYS)	DEEP WATER KEEPING QUIET (P)	JOURNEY TO THE END OF THE EARTH THE ENEMY (not to be included for UT -2)	LETTER TO THE EDITOR
JULY (25 DAYS)	A THING OF BEAUTY (P) A ROADSIDE STAND (P) (not to be included for UT -2) INDIGO (not to be included for UT-2)	ON THE FACE OF IT (not to be included for UT-2)	INVITATION (FORMAL AND INFORMAL)
UNIT TEST 2 (JULY 27 - AUG 3)			
AUGUST (16 DAYS)	THE RATTRAP AUNT JENNIFER'S TIGERS (P) GOING PLACES (not to be included for Pre Model Examination)		REPORT WRITING (NEWSPAPER & MAGAZINE) ARTICLE
SEPTEMBER (22 DAYS)	THE INTERVIEW (not to be included for Pre Model Examination)	MEMORIES OF CHILDHOOD (not to be included for Pre Model Examination)	
PRE MODEL EXAMINATION (SEPT 28 - OCT 9)			
OCTOBER (22 DAYS)	POETS AND PANCAKES (not to be included for Pre Model Examination)		JOB APPLICATION
FIRST MODEL EXAMINATION (NOV 23 - DEC 14)			
SECOND MODEL EXAMINATION (JAN 4 - JAN 22)			

BHARATIYA VIDYA BHAVAN, KOCHI			
YEAR PLAN FOR THE ACADEMIC YEAR 2026- 2027			
Std. XII - PHYSICS			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH/ APRIL	Chapter-1: Electric Charges and Fields	Electric charges, Electric Field, Electric Flux, Gauss's law	Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).
	Chapter-2: Electrostatic Potential and Capacitance	Electric potential & potential energy, equipotential surfaces, Conductors and insulators,	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor.

JUNE	Chapter–2: Electrostatic Potential and Capacitance	Dielectrics and electric polarization Capacitors and capacitance.	Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).
	Chapter–3: Current Electricity	Electric current, drift velocity, Ohm's law, temperature dependence of resistance, Internal resistance and emf of a cell, Kirchhoff's rules, Wheatstone bridge.	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.
	Chapter–9: Ray Optics and Optical Instruments	Reflection of light, spherical mirrors, refraction of light	Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers,
FIRST UNIT TEST (25 marks) [8 JUNE to 16 JUNE] Electric Charges and Fields - 16marks, Electrostatic Potential and Capacitance - 9 marks (including potential due to a dipole)			

JULY	Chapter–9: Ray Optics and Optical Instruments	Refraction at spherical surfaces, lenses, , lens maker's formula, refraction of light through a prism. Optical instruments	Refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.
	Chapter–10: Wave Optics	Wave front and Huygen's principle, Interference, diffraction	Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).
	Chapter–4: Moving Charges and Magnetism	Biot - Savart law and its applications, Ampere's law and its applications, force on a moving charge in uniform magnetic and electric fields.	Concept of magnetic field, Oersted's experiment, Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields.

SECOND UNIT TEST (25 marks) [27 JULY to 3 AUGUST]
Electrostatic Potential and Capacitance (from System of charges) - 10 marks,
Current Electricity -10 marks,
Ray Optics
(including Mirror formula) - 5 marks

AUGUST	Chapter-4: Moving Charges and Magnetism Chapter-5: Magnetism and Matter Chapter-6: Electromagnetic Induction	Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors, torque experienced by a current loop in uniform magnetic field, moving coil galvanometer Bar magnet, magnetic field intensity due to a magnetic dipole (bar magnet), torque on a magnetic dipole. Magnetic properties of materials, Magnetization of materials, effect of temperature on magnetic properties. Electromagnetic induction, Faraday's laws, Lenz's Law	Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter. Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties. Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law
SEPTEMBER	Chapter-6: Electromagnetic Induction Chapter-7: Alternating Current Chapter-8: Electromagnetic Waves	Lenz's Law, Self and mutual induction. Alternating currents, LCR series circuit (phasors only), AC generator, Transformer. Basic idea of displacement current, Electromagnetic waves, Electromagnetic spectrum	Lenz's Law, Self and mutual induction. Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer. Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

PRE MODEL EXAMINATION (28 th September to 9th October)

**Electric Charges and Fields & Electrostatic -potential and capacitance - 12MARKS,
Current Electricity - 6 MARKS,
Moving Charges and Magnetism & Magnetism and Matter - 15 MARKS,
EMI & AC - 15 MARKS,
Ray Optics-15 MARKS
Wave Optics -7 MARKS**

OCTOBER	Chapter–11 Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei	Dual nature of radiation, Photoelectric effect, Einstein photoelectric equation, de-Broglie relation. Alpha-particle scattering experiment; Bohr model of hydrogen atom Composition and size of nucleus, nuclear force, mass defect & binding energy per nucleon , nuclear fission, nuclear fusion	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation. Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only). Composition and size of nucleus, nuclear force, mass-energy relation, mass defect & binding energy per nucleon and its variation with mass number nuclear fission, nuclear fusion.
NOVEMBER	Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	Energy bands in conductors, Intrinsic and extrinsic semiconductors- , p-n junction, application of junction diode.	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.

NOVEMBER & DECEMBER		REVISION FIRST MODEL EXAMINATION (ALL CHAPTERS) (23rd November to 14th December) MODEL PRACTICAL EXAMINATION (DEC 14 -21)
	JANUARY	SECOND MODEL EXAMINATION (ALL CHAPTERS) (January 4th to 22nd)

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

BHARATIYA VIDYA BHAVAN, KOCHI

YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027

CLASS XII -CHEMISTRY (043)

MONTH	TOPIC	SUB TOPIC	CONCEPTS
MARCH /APRIL	1. SOLUTIONS	SOLUTIONS - Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor . Haloalkanes and halo arenes - Nomenclature, nature of C–X bond, physical properties.	SOLUTIONS- Concentration terms and units , Henry's and Raoult's law, Ideal and non- ideal solution , colligative properties , osmosis and reverse osmosis , abnormal molar mass and van't Hoff's factor. Haloalkanes and halo arenes - IUPAC nomenclature, preparation, properties , reaction mechanisms of haloalkanes and haloarenes
	6.HALOALKANES AND HALOARENES	Haloalkanes and halo arenes :Chemical properties, mechanism of substitution reactions, optical rotation. Nature of C–X bond, substitution reactions (Directive	Haloalkanes and halo arenes-Application of haloalkanes and haloarenes

JUNE	6. HALOALKANES AND HALOARENES	influence of halogen in mono substituted compounds only). Uses and environmental effects of dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	
JUNE	2.ELECTROCHEMISTRY	Redox reactions, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead storage cell, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, fuel cells, corrosion.	Electrochemical cell, Nernst equation, Electrolytic conductivity and molar conductivity, Kohlrausch's law, electrolysis, fuel cells and batteries, corrosion
FIRST UNIT - TEST (8-6-2026 to 16-6-2026) <u>PORTIONS</u> 1.SOLUTIONS (18) - Numericals 7 marks. 6.HALOALKANES AND HALOARENES- Including physical properties (7)			
		Alcohols , Phenols and ethers : Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of	Alcohols, Phenols and Ethers- IUPAC nomenclature, preparation, properties , reaction mechanisms of Alcohols, phenols and Ethers.

JULY	7.ALCOHOLS, PHENOLS AND ETHERS	dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses	
	8.ALDEHYDES, KETONES AND CARBOXYLIC ACIDS	Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties,	IUPAC nomenclature of aldehydes , ketones and carboxylic acids , structure of carboxyl groups, preparation of aldehydes and ketones, physical and chemical characteristics of aldehydes and ketones ,
AUGUST	8.ALDEHYDES, KETONES AND CARBOXYLIC ACIDS (Contd)	Mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes: uses. Carboxylic acid-Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	preparation of carboxylic acids , physical and chemical characteristics of carboxylic acids. Application of aldehydes , ketones and acids.
SECOND UNIT – TEST (27-7-2026 to 3-8-2026) <u>PORTIONS</u> 6.HALO ALKANES & HALOARENES - from chemical properties.(8) 2. ELECTROCHEMISTRY (10) Numericals 5 marks 7. ALCOHOLS , PHENOLS AND ETHERS(Excluding Ethers 7.6) (7)			

SEPTEMBER	3.CHEMICAL KINETICS	Chemical Kinetics :Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment). Activation energy, Arrhenius equation.	Chemical kinetics - types of chemical reactions , average rate of reaction, rate equation , order of reaction, rate constant, rate of reaction, rate equation for different orders of reaction, rate constant and order of reaction, collision theory.
	10.BIOMOLECULES	Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins – Elementary idea of – amino acids , peptide bond , polypeptides , proteins , structure of proteins- primary, secondary , tertiary, quaternary structures (qualitative idea only), denaturation of proteins, enzymes . Hormones- Elementary idea excluding structure. Vitamins- Classification and functions. Nucleic acids – DNA and RNA	Biomolecules - Carbohydrates- classification, fructose and glucose, sources of protein , types of protein , denaturation of protein , enzymes , vitamins , structure and chemical composition of nucleic acids, role of biomolecules.
PRE MODEL EXAMINATION (28-9-2026 to 09 -10-2026) <u>PORTION</u> 1. SOLUTIONS (8)			

6. HALOALKANES AND HALOARENES (7) 7. ALCOHOLS, PHENOLS AND ETHERS (10) 8. ALDEHYDES, KETONES AND CARBOXYLIC ACIDS (13) 10. BIOMOLECULES (8) 2. ELECTROCHEMISTRY (12) 3. CHEMICAL KINETICS (12) (Numericals -12)			
OCTOBER	4. THE d- AND f-BLOCK ELEMENTS	General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$.	d and f Block Elements: Position of transition elements, electronic configuration, physical and chemical characteristics of transition elements, variable oxidation number, electrode potential, oxidation states, magnetic properties, complex compounds, preparation of metal oxides, properties of f-block elements.
	5. COORDINATION COMPOUNDS	Co-ordination compounds : Co-ordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, magnetic properties of complexes, Co-ordination compounds: Crystal field theory, synergic bonds, applications of complex compounds.	Co-ordination compounds : Werner's theory, co-ordination entity, co-ordination number, polyhedron, oxidation number of central atom, homoleptic and heteroleptic complexes, IUPAC nomenclature, isomerism, valence bond theory, magnetic properties of complexes, Co-ordination compounds: Crystal field theory, synergic bonds, applications of complex compounds.

NOVEMBER	9. AMINES	Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry	Amines: Structure of amines, classification, IUPAC nomenclature, preparation, physical and chemical properties, diazotisation, preparation of diazonium salts, importance of diazonium salts
FIRST MODEL EXAMINATION (23-11-2026 to 14-12-2026)			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
STD XII – ZOOLOGY – YEAR PLAN			
2026-2027			
MONTH	TOPIC	SUB TOPICS	CONCEPTS
MARCH	CHAPTER 2 HUMAN REPRODUCTIO N	2.1 Male reproductive system 2.2 Female reproductive system 2.3 Gametogenesis 2.4 Menstrual cycle 2.5 Fertilization and implantation 2.6 Pregnancy and embryonic development 2.7 Parturition and lactation	Structure and functions of male reproductive organs Structure and functions of female reproductive organs Spermatogenesis and oogenesis, Hormonal control, structure of sperm , structure of ovary Various events during menstrual cycle, hormonal control, menstrual hygiene Structure of ovum , sex determination, cleavage Formation of placenta , placental hormones , milestones of embryonic development Foetal ejection reflex , significance of colostrum
APRIL	CHAPTER 3 REPRODUCTIV E HEALTH	3.1 Reproductive health - problems and strategies 3.2 Population explosion and birth control 3.3 Medical termination of pregnancy 3.4 Sexually transmitted diseases 3.5 Infertility	Need for reproductive health IMR, MMR, contraceptive methods Why MTP is legalised? Types of STDs, symptoms and preventive measures ART - IVF, ZIFT, GIFT
JUNE	CHAPTER 11 ORGANISMS AND POPULATIONS	11.1 Populations	Population attributes, growth, growth models, life history variation, population interactions
	CHAPTER 6 EVOLUTION	6.1 Origin of life 6.2 Evolution of life forms - a theory 6.3 What are the evidences of evolution ? 6.4 What is adaptive radiation ?	Big bang theory, formation of universe Different theories on origin of life Paleontology, comparative anatomy, embryology, molecular evidences Darwin's finches , placental mammals and marsupials of australia
FIRST UNIT TEST (JUNE 8-16) CHAPTER 2. HUMAN REPRODUCTION			

JULY	CHAPTER 6 EVOLUTION CONTINUES..	6.5 Biological evolution 6.6 Mechanism of evolution 6.7 Hardy-weinberg 6.8 A brief account of evolution principle 6.9 Origin and evolution of man	Branching descent and natural selection Hugo de Vries theory and Darwin's theory on evolution Hardy Weinberg equilibrium, founder effect, opertional techniques of natural selection Evolution of plants and animals through geological periods Different evolutionary stages of man
SECOND UNIT TEST (JULY 27 - AUGUST 3) CHAPTER 3 REPRODUCTIVE HEALTH & CHAPTER 11 ORGANISMS AND POPULATIONS			
JULY	CHAPTER 7 HUMAN HEALTH AND DISEASE	7.1 Common Diseases in Humans 7.2 Immunity 7.3 AIDS 7.4 Cancer	Source, symptoms, target site and mode of transmission of common diseases in humans Innate and acquired, active and passive, vaccination, allergies, auto immunity and immune system Replication of retro virus, its transmission and prevention Types, causes, detection, diagonosis and treatment

AUGUST	CHAPTER 7 HUMAN HEALTH AND DISEASE CONTINUES.....	7.5 Drugs and Alcohol Abuse	Classification of drugs, their source, target site and effect on our body Adolescence and drug abuse, addiction and dependence, effects of drug, alcohol abuse, prevention and control
	CHAPTER 8 MICROBES IN HUMAN WELFARE	8.1 Microbes in Household Products 8.2 Microbes in Industrial Products 8.3 Microbes in Sewage Treatment 8.4 Microbes in Production of Biogas	Microbes in food processing Fermented beverages, antibiotics, bioactive molecules Primary and secondary treatment of sewage Study of biogas plant and biogas production
SEPTEMBER	CHAPTER 8 MICROBES IN HUMAN WELFARE CONTINUES....	8.5 Microbes as Biocontrol Agents 8.6 Microbes as Biofertilisers	Biological control of pests and diseases Organic farming , role of mycorrhizae and cyano bacteria
	CHAPTER 13 BIODIVERSITY AND ITS CONSERVATION	13.1 Biodiversity	Types of biodiversity, representation of global biodiversity, patterns of biodiversity, loss of biodiversity,
OCTOBER	CHAPTER 13 BIODIVERSITY AND ITS CONSERVATION	13.2 Biodiversity Conservation	Why and How should we conserve biodiversity? In situ and Ex-situ
PREMODEL EXAMINATION (SEPTEMBER 28 -OCTOBER 9) CH 2, 3, 6 , 7, 8 AND 11			
NOVEMBER	REVISION		
FIRST MODEL EXAMINATION (NOVEMBER 23 - DECEMBER 14) FULL PORTIONS			
SECOND MODEL EXAMINATION (JANUARY 4 - 22) FULL PORTIONS			

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA**STD XII – BOTANY – YEAR PLAN(2026-2027)**

MONTH	TOPIC	SUB TOPICS	CONCEPTS
MARCH/ APRIL	1. Sexual Reproduction in Flowering Plants 4.Principles of Inheritance and Variation	1.1 Flower – A Fascinating Organ of Angiosperms 1.2 Pre-fertilisation : Structures and Events 1.3 Double Fertilisation 1.4 Post-fertilisation: Structures and Events 1.5 Apomixis and Polyembryony	Stamen, Microsporangium, and Pollen Grain The Pistil, Megasporangium, and Embryo Sac Pollination Double Fertilization Post-Fertilization: Structures and Events Apomixis and polyembryony
JUNE/JULY	4.Principles of Inheritance and variation contd....	4.1 Mendel's Laws of Inheritance 4.2 Inheritance of One Gene 4.3 Inheritance of Two Genes4.4 Polygenic Inheritance 4.5 Pleiotropy 4.6 Sex Determination 4.7 Mutation 4.8 Genetic Disorders"	Hybridization experiments-Monohybrid cross and Dihybrid cross Law of segregation, Law of Dominance, Independent assortment Deviations from Mendelian pattern of inheritance Chromosomal theory of inheritance Sex determination mechanisms, Pedigree Analysis, Mendelian disorders Chromosomal disorders

FIRST UNIT TEST [JUNE 8th TO 16 th]
CHAPTER 1: SEXUAL REPRODUCTION IN FLOWERING PLANTS.

JULY/AUGUST	5.Molecular basis of inheritance	5.1 The DNA 5.2 The Search for Genetic Material 5.3 RNA World 5.4 Replication 5.5 Transcription 5.6 Genetic Code	Structure of Polynucleotide Chain Packaging of DNA Helix Transforming Principle,Biochemical Characterisation of Transforming Principle The Genetic Material is DNA Properties of Genetic Material (DNA versus RNA) The Experimental Proof for Replication The Machinery and the Enzymes Transcription Unit Mutations and Genetic Code tRNA– the Adapter Molecule The Lac operon Goals of HGP,Methodologies,Salient Features of Human Genome and Rice Genome Project Applications and Future Challenges Repetitive DNA,Satellite DNA, Polymorphism,Variable Number of Tandem Repeats
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AUGUST/SEPTEMBER	5.Molecular basis of inheritance contd..... 9-Biotechnology Principles and Processes	5.7 Translation 5.8 Regulation of Gene Expression 5.9 Human Genome Project,Rice Genome Proect 5.10 DNA Fingerprinting 9.1 Principles of Biotechnology 9.2 Tools of Recombinant DNA Technology 9.3 Processes of Recombinant DNA Technology	Mutations and Genetic Code tRNA– the Adapter Molecule The Lac operon Goals of HGP,Methodologies,Salient Features of Human Genome and Rice Genome Project Applications and Future Challenges Repetitive DNA,Satellite DNA, Polymorphism,Variable Number of Tandem Repeats Genetic engineering,Bioprocess engineering, recombinant DNA ,gene cloning and gene transfer, restriction endonuclease Gel electrophoresis Cloning Vectors Competent Host (For Transformation with Recombinant DNA) Processes of Recombinant DNA Technology
SECOND UNIT TEST [JULY 27th TO AUGUST 3rd] CHAPTER 4 4. Principles of Inheritance and Variation(Full Chapter)			

SEPTEMBER	9-Biotechnology Principles and Processes contd..... 10-Biotechnology and its Applications	9.3 Processes of Recombinant DNA Technology Contd..... 10.1 Biotechnological Applications in Agriculture	Processes of Recombinant DNA Technology contd.... Green Revolution,tissue culture,somatic hybridisation Pest Resistant Plants Genetically Engineered Insulin Gene Therapy Transgenic Animals Ethical Issues Regarding Transgenic Animals Molecular Diagnosis
OCTOBER/NOVEMBER	10.Biotechnology and its Applications contd...	10.2 Biotechnological Applications in Medicine 10.3 Transgenic Animals 10.4 Ethical Issues	Genetically Engineered Insulin Gene Therapy Transgenic Animals Ethical Issues Regarding Transgenic Animals Molecular Diagnosis
OCTOBER/NOVEMBER	12. Ecosystem	12.1 Ecosystem - structure and function 12.2 Productivity 12.3 Decomposition 12.4 Energy flow 12.5 Ecological pyramids	Stratification NPP, GPP, Primary production and secondary production PAR, GFC, DFC and standing crop Types of ecological pyramids

TERM END EVALUATION [SEPTEMBER 28th TO OCTOBER 9th]

CHAPTERS 1,4, 5 and 9

1. Sexual Reproduction in Flowering Plants.

4.Principles of Inheritance and Variation

5.Molecular Basis of Inheritance

9.Biotechnology : Principles and processes.

FIRST MODEL EXAMINATION [NOVEMBER 23rd TO DECEMBER 14th]

CHAPTERS 1,4,5,9 ,10 and 12

SECOND MODEL EXAMINATION [JANUARY 4th TO 22 nd]

CHAPTERS 1,4,5,9, 10 and 12

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
COMPUTER SCIENCE
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27

CLASS: XII

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH/ APRIL	Computational Thinking and Programming-2 Database Management	Revision of python topics in class XI (Functions Database concepts Relational data model till delete command)	Basic concepts of Python programming Creating reusable and modular code, promoting good programming practices such as code reusability, readability, and maintainability. Concepts of RDBMS.
UNIT TEST 1(8/6/2026 to 16/06/2026)			
TOPICS :REVISION STD XI,FUNCTIONS,DATABASE CONCEPTS,RELATIONAL DATA MODEL(till delete command)			
JUNE	Database Management	Structured Query Language,Interface o	The use of RDBMS to store, organize, and retrieve large amounts of data efficiently. Understand and use MySQL commands to store and manage data. Grouping and filtering of records to get cumulative data. Extracting data from multiple tables. Client Server architecture -to transfer and manage
JULY	Computational Thinking and Programming-2 Database Management	Introduction to Files,Text Files, Binary Files,	Files as a medium for permanent storage. Binary file Handling Types of Files and paths.Text File Handling
UNIT TEST 2 (27/07/2026 to 03/08/2026)			
TOPICS :SQL(AGGREGATE FUNCTIONS,GROUP BY, HAVING, JOINS),CONNECTIVITY,EXCEPTION HANDLING , TEXT FILE ONLY			

AUGUST	Computational Thinking and Programming-2	Introduction to Files- CSV Files	Files as a medium for permanent storage. CSV file Handling
SEPTEMBER	Computational Thinking and Programming-2, Computer Networks	Data Structure, Evolution of Networking,Data communication terminologies,Transmission Media,Network Devices,Network Types,Network Protocol	Understand the concept of Stack. Various types of transmission media used in different types of networks, including wired ,wireless networks,network types,
PRE MODEL EXAMINATION (28/9/2026 to 9/10/2026) 1) Revision Std XI 2) Functions 3) Database Concepts, Relational Data Model & Mysql 4) Connectivity, Exception Handling 5) Files 6) Data Structure			
OCTOBER	Computer Networks	Network topologies and Network types, Introduction to web services	Topologies,network protocol and network devices.
FIRST MODEL: 23/11/2026 to 14/12/2026			
SECOND MODEL:04/01/2027 TO 22/01/2027			

SCHOOL NAME	TEACHER NAME	SIGNATURE
Bhavan's Munshi Vidyashram, Tripunithura	Ganga Varma	
Bhavan's Vidya Mandir, Girinagar	Girija Pillai	
Bhavan's Varuna Vidyalaya, Thrikkakara,	Aleyamma George	
Bhavan's Adarsha Vidyalaya, Kakkanad	Sindhu Gopakumar	
Bhavan's Vidya Mandir, Eroor	Sheba K George	
Bhavan's Vidya Mandir, Elamakkara	Bindu T C	
Bhavan's Newsprint Vidyalaya, Velloor	Shybee Thomas	

DATE :20/05/2026 ,21/05/26

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA INFORMATICS PRACTICES(065) YEAR PLAN FOR THE ACADEMIC YEAR 2026-2027			
CLASS: XII			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH/APRIL	Unit 1: Data Handling using Pandas –I	Introduction to Python libraries- Pandas, Matplotlib Data structures in Pandas - Series and Data Frames Series: Creation of Series from – ndarray, dictionary, scalar value , Mathematical operations on series – addition, subtraction, multiplication, division ,Head and Tail functions Selection, Indexing and Slicing Attributes of Series – name, index.name, values, size, emptyDataFrames: creation - from dictionary of Series, list of dictionaries, displaying dataframe Attributes of DataFrames – index, columns, dtypes, values, shape, size, T, ndim, head(), tail()	Data analysis using Python libraries,Concepts of data structures,Series creation and its operations. Creation of 2D data sructure: Dataframe and its attributes
JUNE	Unit 1: Data Handling using Pandas –I	Dataframe Creation using Text/CSV files, display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames.	DataFrame creation (Revision) Operations and methods dataframes. Dataframes indexing , concept of importing and exporting data using csv
UNIT TEST I -08/06/2026 TO 16/06/2026 Portions:- Introduction to Python libraries- Pandas,Data structures in Pandas - Series and Data Frame Creation - from dictionary of Series, list of dictionaries MARKING SCHEME: OBJECTIVE TYPE QUESTIONS :- [MCQs - 5 marks(20%)] COMPETENCY BASED QUESTIONS:- MCQ - 2 Marks, Assertion Reasoning - 1 Mark (4%), Find the output, Find the errors and operations based on Series - 10 Marks (40%),Series and Data Frame creation - 5 Marks (20%) CONSTRUCTED RESPONSE QUESTIONS [Short answer questions - 2 Marks (8%)]			

JULY	Unit 1: Data Visualization, I Unit 3: Introduction to Computer Networks	Data Visualization: Purpose of plotting; drawing and saving following types of plots using Matplotlib –line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots. Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Visualizing data using matplotlib library, Network and types of Network, Network Devices, Network Topology, Internet and web fundamentals
UNIT TEST II: 27/07/2026 TO 03/08/2026 PORTIONS :Data Frames: creation -(All methods given in the curriculum) display; iteration; Operations ,Indexing Importing/Exporting Data between CSV files and Data Frames. MARKING SCHEME: OBJECTIVE TYPE QUESTIONS [MCQs - 5 marks(20%)] COMPETENCY BASED QUESTIONS Assertion Reasoning - 1 Mark (4%) Find the output, Find the errors and operations based on DataFrame -9 Marks (36%) Dataframe Creation and CSV - 4 Marks (16%) CONSTRUCTED RESPONSE QUESTIONS [Short answer questions - 6 marks (24%)]			
AUGUST	Unit 2: Database Query using SQL	Database Query using SQL Revision of database concepts and SQL commands covered in class XI Math functions: POWER (), ROUND (), MOD (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().	Database Query using SQL Revision of database concepts, SQL single row functions- Math and Date functions
	Unit 2: Database Query using SQL	Text functions: UCASE ()/ UPPER (), LCASE ()/ LOWER (), MID ()/ SUBSTRING ()/ SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by. Working with two tables using equi-join.	SQL single row functions- Text functions Aggregate Functions, Group by Clause, Having clause, Order by clause, SQL join

SEPTEMBER	PRE MODEL EXAMINATION 28/09/2026 TO 09/10/2026 (PORTIONS : All portions except Societal Impacts) MARKING SCHEME :Unit I Data Handling using Pandas and Data Visualization - 30 Marks, Unit 2: Database Query using SQL-28 Marks,Unit 3: Introduction to Computer Networks -12 Marks SELECT RESPONSE TYPE QUESTIONS [MCQs - 14 marks (20%)] COMPETENCY BASED QUESTIONS Assertion Reasoning - 2 Mark (3 %) Very Short Answer type questions carrying 01 mark or 02 marks each(case based source-based integrated ,MCQ ,any other type) - 17 marks (24 %) Short Answer type questions carrying 03 marks - 9 Marks (13%) Short Answer type questions carrying 04 marks - 8 Marks (12%) CONSTRUCTED RESPONSE QUESTIONS Questions carrying 5 marks each (constructed response type) -10 Marks (14%) Questions carrying 2 marks each (constructed response type) -10 Marks (14%)		
OCTOBER	Unit 4: Societal Impacts	Societal Impacts Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology	Societal Impacts- cybercrime and cyber laws, E-waste: hazards and management.
NOVEMBER	FIRST MODEL EXAMINATION FULL PORTIONS		
JANUARY	SECOND MODEL EXAMINATION 04/01/2027-22/01/2027 FULL PORTIONS		

**FIRST AND SECOND MODEL EXAMINATION
(PORTIONS : Full portions)**

MARKING SCHEME :

Unit I Data Handling using Pandas and Data Visualization - 25 Marks,

Unit 2: Database Query using SQL-25 Marks

Unit 3: Introduction to Computer Networks -10 Marks

Unit 4: Societal Impacts - 10 Marks

SELECT RESPONSE TYPE QUESTIONS [MCQs - 14 marks (20%)]

COMPETENCY BASED QUESTIONS

Assertion Reasoning - 2 Mark (3 %)

Very Short Answer type questions carrying 01 mark or 02 marks each(case based source-based integrated ,MCQ ,any other type) - 17 marks (24 %)

Short Answer type questions carrying 03 marks - 9 Marks (13%)

Short Answer type questions carrying 04 marks - 8 Marks (12%)

CONSTRUCTED RESPONSE QUESTIONS

Questions carrying 5 marks each (constructed response type) -10 Marks (14%)

Questions carrying 2 marks each (constructed response type) -10 Marks (14%)

S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BVM, ELAMAKKARA	ANJU JAYAN,SRUTHI KRISHNAN	
2	BVM, EROOR	ANEESHA M R	
3	BVV, THRIKKAKARA	VIDYA MOHAN	
4	BVM, GIRINAGAR	VANDANA P, TREASA JOSEPH	
5	BAV, KAKKANAD	SEEMA C, NEETHESH N SHENOY,SINDHU PANICKER	
6	BMV, TRIPUNITHURA	SUSMITHA S SHENOY	
7	BMV, VELLOOR	ANISH M N,DEVISREE R	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
CLASS: XII			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH/ APRIL	PART B: Unit 2: Data Science Methodology: An Analytic Approach to Capstone Project	INTRODUCTION TO DATA SCIENCE METHODOLOGY MODEL VALIDATION MODEL PERFORMANCE - EVALUATION METRICS PRACTICAL ACTIVITIES	Introduction to Data Science Methodology Steps for Data Science Methodology Model Validation Techniques Model Performance- Evaluation Metrics
	PART A: Unit 1 : Communication Skills- IV	• Active Listening • Parts of Speech • Writing Sentences	1. Importance of active listening at workplace 2. Steps to active listening 3. Writing skills to the following: • Sentence • Phrase • Kinds of Sentences • Parts of Sentence • Parts of Speech • Articles • Construction of a Paragraph
JUNE	PART B: Unit 3: Making Machines See	HOW MACHINES SEE? WORKING OF COMPUTER VISION COMPUTER VISION – PROCESS APPLICATIONS OF COMPUTER VISION CHALLENGES OF COMPUTER VISION THE FUTURE OF COMPUTER VISION Working with OpenCV:(**For Advanced Learners)	How Machines See Working of Computer Vision Computer Vision Process Applications of Computer Vision Challenges of Computer Vision The Future of Computer Vision Working with OpenCV (**For Advanced Learners)

	PART B: Unit 1: Python Programming – II	Python Libraries Import and Export Data between CSV Files and DataFrames Handling Missing Values	Recap of NumPy library Recap of Pandas Library Importing and Exporting Data between CSV Files and DataFrames Handling missing value Linear Regression algorithm (**For Advanced Learners) PRACTICAL ACTIVITY - Linear Regression algorithm
Unit Test I : 08/06/2026 to 16/06/2026			
JULY	PART A: Unit 2: Self-management Skills - IV	• Motivation and Positive Attitude • Result Orientation • Self-awareness	1. Finding and listing motives(needs and desires); 2. Finding sources of motivation and inspiration (music, books, activities); expansive thoughts; living fully in the present moment; dreaming big Personality 1. Describe the meaning of personality 2. Describe how personality influence others 3. Describe basic personality traits 4. Describe common personality disordersparanoid, antisocial,schizoid, borderline, narcissistic, avoidant, dependent and obsessive
	PART B: Unit 5: Introduction to Big Data and Data Analytics	What is Big Data? Types of Big Data Advantages and Disadvantages of Big Data Characteristics of Big Data Big Data Analytics Working on Big Data Analytics Mining Data Streams Future of Big Data Analytics	Introduction to Big Data Types of Big Data Advantages and Disadvantages of Big Data Characteristics of Big Data Big Data Analytics Working on Big Data Analytics Mining Data Streams Future of Big Data Analytics
Unit Test II : 27/07/2026 to 03/08/2026			

August	PART B: Unit 6: Understanding Neural Networks	● Parts of a Neural Network ● Components of a Neural Network ● Working of a Neural Network ● Types of Neural Networks ● Future of Neural Networks and Societal Impact	1. Parts of a neural network. 2. Components of a neural network. 3. Working of a neural network. 4. Types of neural networks, such as feedforward, convolutional, and recurrent. 5. Impact of neural network on society.
	PART A: Unit 4: Entrepreneurial Skills	Entrepreneurship and Entrepreneur Barriers to Entrepreneurship Entrepreneurial Attitudes Entrepreneurial Competencies	1. Barriers to becoming entrepreneur 2. Behavioral and entrepreneurial competencies– adaptability/ decisiveness, initiative/perseverance, interpersonal skills, organizational skills, stress management, valuing service and diversity 3. Entrepreneurial competencies in particular: self - confidence, initiative, seeing and acting on opportunities, concern for quality, goal setting and risk taking, problem solving and creativity, systematic planning and efficiency, information seeking, persistence, influencing and negotiating, team building
	PART B: Unit 4: AI with Orange Data Mining Tool	● What is Data Mining? ● Introduction to Orange Data Mining Tool ● Beneficiaries of Orange data mining ● Getting started with Orange tool ● Components of Orange ● Default Widget Catalogue ● Key domains of AI with ORANGE DATA MINING TOOL	1. Introduction to Orange Data Mining Tool 2. Components of Orange Data Mining Tool 3. Key domains of AI with Orange data mining tool – Data Science, Computer Vision, NLP

September	PART B: Unit 7: Generative AI	● Introduction to Generative AI ● Working of Generative AI ● Generative and Discriminative models ● Applications of Generative AI ● LLM- Large Language Model ● Future of Generative AI ● Ethical and Social Implications of Generative AI	1. Introduction to Generative AI 2. Working of Generative AI 3. Generative and Discriminative models 4. Applications of Generative AI 5. LLM- Large Language Model 6. Future of Generative AI 7. Ethical and Social Implications of Generative AI
	PART A: Unit 5: Green Skills	Green Jobs Importance of Green Jobs	1. Role of green jobs in toxin-free homes, 2. Green organic gardening, public transport and energy conservation, 3. Green jobs in water conservation 4. Green jobs in solar and wind power, waste reduction, reuse and recycling of wastes, 5. Green jobs in green tourism 6. Green jobs in building and construction 7. Green jobs in appropriate technology 8. Role of green jobs in Improving energy and raw materials use 9. Role of green jobs in limiting greenhouse gas emissions 10. Role of green jobs minimizing waste and pollution 11. Role of green jobs in protecting and restoring ecosystems 12. Role of green jobs in support adaptation to the effects of climate change
Skills-IV (3 marks)PART B Subject Specific Skills (40 marks)Unit 2: Data Science Methodology: An Analytic Approach to Capstone Proje			

	PART B: Unit 8: Data Storytelling ● Introduction to Storytelling ● Elements of a Story ● Introduction to Data Storytelling ● Why is Data Storytelling Powerful? ● Essential Elements of Data Storytelling ● Narrative Structure of a Data Story (Freytag's Pyramid) ● Types of Data and Visualizations for Different Data ● Steps to Create a Story Through Data ● Ethics in Data Storytelling	1. Introduction to Storytelling 2. Elements of a Story 3. Introduction to Data Storytelling 4. Why is Data Storytelling Powerful? 5. Essential Elements of Data Storytelling 6. Narrative Structure of a Data Story (Freytag's Pyramid) 7. Types of Data and Visualizations for Different Data 8. Steps to Create a Story Through Data 9. Ethics in Data Storytelling
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October	PART A: Unit 3: Information and Communication Technology Skills	Getting Started with Spreadsheet Performing Basic Operations in a Spreadsheet Working with Data and Formatting Text Advanced Features in Spreadsheet Presentation Software Opening, Closing, Saving and Printing a Presentation Working with Slides and Text in a Presentation Advanced Features used in Presentation	Spreadsheet Software 1. Introduction to spreadsheet application 2. Spreadsheet applications 3. Creating a new worksheet 4. Opening workbook and entering text 5. Resizing fonts and styles 6. Copying and moving 7. Filter and sorting 8. Formulas and functions 9. Password protection. 10. Printing a spreadsheet. 11. Saving a spreadsheet in various formats. Presentation Software <i>(Saving a spreadsheet in various formats)</i> 1. Introduction to presentation 2. Software packages for presentation 3. Creating a new presentation 4. Adding a slide 5. Deleting a slide 6. Entering and editing text 7. Formatting text 8. Inserting clipart and images 9. Slide layout 10. Saving a presentation 11. Printing a presentation document
PART B Subject Specific Skills (40 marks) Unit 2: Data Science Methodology: An Analytic Approach to Capstone Project (8 marks) Unit 3: Making Machines See (6 marks) Unit 5: Introduction to Big Data and Data Analytics (6 marks) Unit 6 : Understanding Neural Networks (8 marks) Unit 7: Generative AI (7 marks) Unit 8 : Data Story Telling (5 marks)			

Second Model Examination : 04/01/2027 to 22/01/2027

S.No	NAME OF SCHOOL	NAME OF TEACHERS	SIGNATURE
1	BMV, TRIPUNITHURA	Deepa P Bhavya G Menon	
2	BVM, ELAMAKKARA	Jamil Mohandas Riya T Raphael	
3	BVM, EROOR	Sony I Thekkekara	
4	BVM, GIRINAGAR	Treesa Joseph Shanti Karun	
5	BVV, THRIKKAKARA	Anagha Mani	
6	BNV, VELOOR	Anoop M A	
7	BAV, KAKKANAD	Neethesh N Shenoy	

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27			
CLASS	XII		
SUBJECT	ACCOUNTANCY(055)		
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH APRIL	ACCOUNTING FOR SHARE CAPITAL	8.1 Features of a Company 8.2 Kinds of Companies 8.3 Share Capital of a Company 8.4 Nature and Classes of Shares 8.5 Issue of Shares 8.6 Accounting Treatment 8.7 Forfeiture of Shares	Company and Share Capital Features of a Company Kind of Companies. Share Capital of a Company and its Categories. Nature and Classes of Shares. Issue of Shares. Accounting Treatment, Calls in Arrears and Calls in Advance, Over Subscription and Under Subscription, Issue of Shares at a Premium and at a Discount, Issue of Shares for Consideration other than Cash. Forfeiture of Shares. Reissue of Forfeited Shares.
UNIT TEST 1 - 25 MARKS			

JUNE	ISSUE OF DEBENTURES	9.1 Meaning of Debentures 9.2 Distinction between Shares and Debentures 9.3 Types of Debentures 9.4 Terms of Issue of Debentures 9.5 Over Subscription 9.6 Issue of Debentures for Consideration other than Cash 9.7 Issue of Debentures as a Collateral Security 9.8 Issue of Debentures 9.9 Interest on Debentures 9.10 Writing off Discount/Loss on Issue of Debentures	Meaning of Debentures. Distinction between Shares and Debentures. Types of Debentures. Issue of Debentures- Par, Premium & Discount Pro Rata & Rejection. Issue of Debentures other than cash- Par, Premium & Discount. With & Without Journal Entries & effect in Balance Sheet. Accounting Treatment for different cases. Journal Entries. Sources to write off & Preparation of ledger accounts.
JUNE	FINANCIAL STATEMENT ANALYSIS	11.1 Meaning of Analysis of Financial Statements 11.2 Significance of Analysis of Financial Statements 11.3 Objectives of Analysis of Financial Statements 11.4 Tools of Analysis of Financial Statements 11.5 Limitations of Financial Analysis	Meaning of Analysis of financial statements. Significance of Analysis of financial statements. Objectives of Analysis of financial statements. Comparative, Common Size, Ratio Analysis and Cash Flow Statement. Limitations of Financial Analysis

JUNE	TOOLS OF FINANCIAL STATEMENT ANALYSIS-COMPARATIVE, COMMON SIZE STATEMENTS. ACCOUNTING RATIOS	12.4 Tools of Analysis of Financial Statements 12.5 Comparative Statements 12.6 Common Size Statement 13.1 Meaning of Accounting Ratios 13.2 Objectives of Ratio Analysis 13.3 Advantages of Ratio Analysis 13.4 Limitations of Ratio Analysis 13.5 Types of Ratios 13.6 Liquidity Ratios 13.7 Solvency Ratios 13.8 Activity (or Turnover) Ratio 13.9 Profitability Ratios	Preparation of comparative and common size statement, Accounting Ratios: Meaning, Objectives Advantages, Classification and computation- Liquidity Ratios: ,Solvency Ratios: Activity Ratios: Profitability Ratios:
JULY	CASH FLOW STATEMENT	14.1 Objectives of Cash Flow Statement 14.2 Benefits of Cash Flow Statement 14.3 Cash and Cash Equivalents 14.4 Cash Flows 14.5 Classification of Activities for the Preparation of Cash Flow Statement 14.6 Ascertaining Cash Flow from Operating Activities 14.7 Ascertainment of Cash Flow from Investing and Financing Activities 14.8 Preparation of Cash Flow Statement	Meaning, objectives Benefits of Cash Flow Statement Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised))
PROJECT WORK			
UNIT TEST II - 25 MARKS			

AUGUST	ACCOUNTING FOR PARTNERSHIP FIRMS -BASIC CONCEPTS	1.1 Nature of Partnership 1.2 Partnership Deed 1.3 Special Aspects of Partnership Accounts 1.4 Maintenance of Capital Accounts of Partners 1.5 Distribution of Profit among Partners 1.6 Guarantee of Profit to a Partner 1.7 Past Adjustments	Meaning nature and definition Contents of Partnership Deed. Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account-division of profit among partners Guarantee of profits to the partners and partner to the firm. Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio).
AUGUST	GOODWILL: NATURE AND VALUATION	2.1 Nature of Goodwill 2.2 Factors affecting Goodwill 2.3 Types of Goodwill 2.4 Methods of valuation of Goodwill	Meaning and Nature Factors affecting goodwill Self-generated and Purchased Methods of valuation - average profit, super profit and capitalization.

AUGUST	RECONSTITUTION OF A PARTNERSHIP FIRM - ADMISSION OF PARTNERS	3.1 Modes of Reconstitution of a Partnership Firm 3.2 Admission of a New Partner 3.3 New Profit Sharing Ratio 3.4 Sacrificing Ratio 3.5 Goodwill 3.6 Adjustment for Accumulated Profits and Losses 3.7 Revaluation of Assets and Reassessment of Liabilities 3.8 Adjustment of Capitals	Cases of Reconstitution Effect of admission of a partner on change in the profit sharing ratio Old Ratio - New Ratio Treatment of goodwill (as per AS 26) Treatment of reserves, accumulated profits and losses Treatment for revaluation of assets and re assessment of liabilities Adjustment of capital accounts and preparation of capital, current account and Balance Sheet..
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SEPTEMBER	RECONSTITUTION OF A PARTNERSHIP FIRM - CHANGE IN PROFIT SHARING RATIO AMONG THE EXISTING PARTNERS	4.1 New Profit Sharing Ratio 4.2 Sacrificing Ratio/Gaining Ratio 4.3 Goodwill 4.4 Adjustment for Accumulated Profits and Losses 4.5 Revaluation of Assets and Reassessment of Liabilities 4.6 Adjustment of Capitals	Calculation of New Profit sharing Ratio. Sacrificing ratio, gaining ratio- Calculation. Accounting Treatment of Goodwill. Treatment of reserves and accumulated profits. Accounting for revaluation of assets and reassessment of liabilities Preparation of revaluation account and Balance Sheet.
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SEPTEMBER	RECONSTITUTION OF A PARTNERSHIP FIRM - RETIREMENT OF PARTNER	5.1 Ascertaining the Amount Due to Retiring Partner 5.2 New Profit Sharing Ratio 5.3 Gaining Ratio 5.4 Treatment of Goodwill 5.5 Adjustment for Revaluation of Assets and Liabilities 5.6 Adjustment of Accumulated Profits and Losses 5.7 Disposal of Amount Due to Retiring Partner 5.8 Adjustment of Partners' Capitals 5.9 Retiring Partners Loan a/c	Effect of retirement of a partner on change in profit sharing ratio, Calculation New Ratio. New Ratio - Old Ratio Treatment of goodwill (as per AS 26), Treatment for revaluation of assets and reassessment of liabilities, Preparation of capital, current account and Balance Sheet. Adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and Preparation of loan account of the retiring partner.
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SEPTEMBER	RECONSTITUTION OF A PARTNERSHIP FIRM - DEATH OF A PARTNER	6.1 Ascertaining the Amount Due to Deceased Partner 6.2 New Profit Sharing Ratio 6.3 Gaining Ratio 6.4 Treatment of Goodwill 6.5 Adjustment for Revaluation of Assets and Liabilities 6.6 Adjustment of Accumulated Profits and Losses 6.7 Disposal of Amount Due to Deceased Partner 6.8 Executors a/c	Calculation of amount to be transferred to Executor's A/c Calculation New Ratio. New Ratio - Old Ratio Treatment of goodwill (as per AS 26), Treatment for revaluation of assets and reassessment of liabilities, Preparation of capital, current account and Balance Sheet. Adjustment of accumulated profits, losses and reserves, adjustment of capital account Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account.
PREMODEL EXAMINATION - 80 MARKS			

OCTOBER	DISSOLUTION OF PARTNERSHIP FIRM	7.1 Dissolution of Partnership 7.2 Dissolution of a Firm 7.3 Settlement of Accounts 7.4 Accounting Treatment	Dissolution of partnership and partnership firm, Types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c
NOVEMBER	FIRST MODEL EXAMINATION		
JANUARY	SECOND MODEL EXAMINATION		

BVM, ELAMAKKARA: MINI MENON	BVV, THRIKKAKARA : SHILAJA T R
BVM, GIRINAGAR : SAJITH S	BMV, TRIPUNITHURA : DEEPA V MENON
BVM, EROOR : DHANYA V, ANITHA V	BAV, KAKKANAD : DEEPA VARGHESE
BNV, VELLOOR : SHRUTHI G	

BVM GIRINAGAR

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27
STD -XII APPLIED MATHEMATICS (241)

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

	Increasing /Decreasing Functions Maxima and Minima	Simple problems related to increasing and decreasing behaviour of a function in the given interval . A point $x = c$ is called the critical point of f if f is defined at c and $f'(c) = 0$ or f is not differentiable at c . To find local maxima and local minima by: i) First Derivative Test ii) Second Derivative Test Contextualized real life problems .
UNIT TEST-1 : 8/6/26 TO 16/6/26 MATRICES, DETERMINANTS (DIFFERENTIATION AND ITS APPLICATIONS NOT INCLUDED)		
PROBABILITY DISTRIBUTIONS	Probability Distribution Mathematical Expectation Variance Binomial Distribution Poisson Distribution Normal Distribution	Definition and example of discrete and continuous random variables and their distribution . The expected value of a discrete random variable is the summation of the product of a discrete random variable by the probability of its occurrence . Questions based on variance and standard deviation. Characteristics of the binomial distribution. Binomial formula. $P(r) = {}^nC_r p^r q^{n-r}$ Where n = number of trials P = probability of success q = probability of failure Mean $= np$

		Variance = npq Standard Deviation = $\sqrt{npq}$ Characteristics of Poisson Probability distribution Poisson formula: $P(x) = \frac{\lambda^x e^{-\lambda}}{x!}$ Mean = Variance = λ Characteristics of a normal probability distribution Total area under the curve = total probability = 1 Standard Normal Variate: $Z = \frac{x - \mu}{\sigma}$ where x = value of the random variable μ = mean σ = S.D.
NUMBERS, QUANTIFICATIONS AND NUMERICAL APPLICATIONS	Modulo Arithmetic Congruence Modulo Alligation and Mixture Numerical Problems Boats and Streams (upstream and downstream) Pipes and Cisterns Races and Games Numerical Inequalities	Definition and meaning Solution using congruence modulo Equivalence class Meaning and Application of rule of alligation Mean price of a mixture Problems based on speed of stream and the speed of boat in still water . Calculation of the portion of the tank filled or drained by the pipe(s) in unit time Calculation of the time taken/ distance covered / speed of each player Comparison between two statements/situations which can be compared numerically

		Application of the techniques of numerical solution of algebraic inequations
TIME BASED DATA	Time Series Components of Time Series Time Series analysis for univariate data Secular Trend Methods of Measuring trend	•Meaning and Definition •Secular trend • Seasonal variation • Cyclical variation • Irregular variation •Fitting a straight-line trend and estimating the value •The tendency of the variable to increase or decrease over a long period of time •Moving Average method •Method of Least Squares
UNIT TEST-2(27/7/26 TO 3/08/26) DIFFERENTIATION AND ITS APPLICATIONS ,PROBABILITY DISTRIBUTIONS, NUMBERS, QUANTIFICATIONS AND NUMERICAL APPLICATIONS.		

TIME BASED DATA CONTD... CALCULUS- INTEGRATION AND ITS APPLICATIONS,	Integration Indefinite Integrals as family of curves Definite Integrals as area under the curve Application of Integration	●Integration as a reverse process of differentiation ●Vocabulary and Notations related to Integration ●Simple integrals based on each method (non-trigonometric function) ●Evaluation of area under simple algebraic curves up to 2nd degree. ●Problems based on finding Total cost when Marginal Cost is given Total Revenue when Marginal Revenue is given ●Equilibrium price and equilibrium quantity and hence consumer and producer surplus
DIFFERENTIAL EQUATIONS	Differential Equations Formulating and Solving Differential Equations	●Definition, order, degree and examples ●Formation of differential equation by eliminating arbitrary constants ●Solution of simple differential equations (direct integration only)
INFERENCEAL STATISTICS	Population and Sample	● Population data from census, economic surveys and other contexts from practical life

	Parameter and Statistics and Statistical Inferences t-Test (one sample t-test and for a small group sample)	● Examples of drawing more than one sample set from the same population ● Examples of representative and non-representative sample ● Unbiased and biased sampling ● Problems based on random sampling using simple random sampling and systematic random sampling (sample size less than 100) ● Conceptual understanding of Parameter and Statistics ● Examples of Parameter and Statistic limited to Mean and Standard deviation only ● Examples to highlight limitations of generalizing results from sample to population ● Only conceptual understanding of Statistical Significance/Statistical Inferences ● Only conceptual understanding of Sampling Distribution through simulation and graphs ● Examples and non-examples of Null and Alternate hypothesis (only non-directional alternate hypothesis) ● Framing of Null and Alternate hypothesis ● Testing a Null Hypothesis to make Statistical Inferences for small sample size ● <i>(for small sample size: t- test for one group)</i>
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LINEAR PROGRAMMING	Introduction and related terminology Mathematical formulation of Linear Programming Problem Different types of Linear Programming Problems Graphical method of solution for problems in two variables Feasible and Infeasible Regions Feasible and infeasible solutions, optimal feasible solution	● Need for framing linear programming problem ● Definition of Decision Variable, Constraints, Objective function, Optimization and Non- Negative constraints. ● Set the problem in terms of decision variables, identify the objective function, identify the set of problem constraints, express the problem in terms of inequations ● Formulate various types of LPP like Manufacturing Problem, Diet Problem, etc. ● Corner Point Method for the Optimal solution of LPP ● Definition and Examples to explain the terms ● Problems based on optimization ● Examples of finding the solutions by graphical method
28/9/26 TO 9/10/26 PRE MODEL EXAMINATION (ALL CHAPTERS EXCEPT FINANCIAL MATHEMATICS AND LINEAR PROGRAMMING)		
LINEAR PROGRAMMING CONTINUED.....		
23/11/26 TO 14/12/26 FIRST MODEL EXAMINATION (ALL CHAPTERS)		
4/1/27 TO 22/1/27 SECOND MODEL EXAMINATION (ALL CHAPTERS)		
TEACHERS ATTENDED:		

SINI V	- BHAVAN'S NEWSPRINT VIDYALAYA VELLOOR
MINU K JOY	- BHAVAN'S MUNSHI VIDYASHRAM THIRUVAMKULAM
INDU P N	- BHAVAN'S VIDYA MANDIR EROOR
VARSHA R	- BHAVAN'S ADARSHA VIDYALAYA KAKKANAD

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA

YEAR PLAN MATHEMATICS(041)

CLASS XII 2026-2027

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	3.MATRICES	Introduction Matrix Types of matrices Operations on matrices Transpose of a matrix symmetric and skew symmetric matrices. Invertible matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non- commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restricted to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).
APRIL	4.DETERMINANTS	Introduction Determinant Area of a Triangle Minors and Cofactors Adjoint and Inverse of a Matrix Applications of Determinants and Matrices	Determinant of a square matrix (up to 3×3 matrices), minors, cofactors and applications of determinants in finding the area of a triangle Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of systems of linear equations by examples, solving systems of linear equations in two or three variables (having unique solution) using inverse of a matrix.
JUNE	1.RELATIONS AND FUNCTIONS (Not for first Unit Test)	Introduction Types of Relations Types of Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.
FIRST UNIT TEST(08/06/26 - 17/06/26) (chapters 3 and 4)			

JUNE	2 .INVERSE TRIGONOMETRIC FUNCTIONS	Introduction Basic Concepts	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions
JUNE	5.CONTINUITY & DIFFERENTIABILITY	Introduction Continuity Differentiability Exponential and Logarithmic Functions Logarithmic Differentiation Derivatives of Functions in Parametric Forms Second Order Derivative	Continuity and differentiability, chain rule, derivative of COMPOSITE FUNCTIONS, inverse trigonometric functions like $\sin^{-1} x$, $\cos^{-1} x$, $\tan^{-1} x$, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.
JULY	6 .APPLICATION OF DERIVATIVES (NOT INCLUDED FOR SECOND UNIT TEST)	Introduction Rate of Change of Quantities Increasing and Decreasing Functions Maxima and Minima	Rate of change of quantities, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real life situations).
SECOND UNIT TEST(Chapters 1,2,5) (27/07/26 - 03/08/26)			
JULY	7.INTEGRALS	Introduction Integration as an Inverse Process of Differentiation Methods of Integration Integrals of Some Particular Functions Integration by	Integration as an inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of special integrals. Fundamental theorem of calculus (without proof), Basic properties of definite integrals and evaluation of definite integrals.

		Partial Fractions Integration by Parts Definite Integral	
AUGUST	8. Application of Integrals	Introduction Area under Simple Curves	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses; (in standard form only)
AUGUST	9. Differential Equations	Introduction Basic Concepts General and Particular Solutions of a Differential Equation Methods of Solving First Order, First Degree Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree . Solutions of linear differential equation of the type $dy/dx + P y = Q$, where P and Q are functions of x or constants . $dx/dy + Px = Q$ where P and Q are functions of y or constants

SEPTEMBER	10. Vectors	Introduction Some Basic Concepts Types of Vectors Addition of Vectors Multiplication of a Vector by a Scalar Product of Two Vectors	Vectors and scalars, magnitude and direction of a vector ,direction cosines and direction ratios of a vector ,types of vectors,(equal, unit, zero ,parallel and collinear vectors)position vector of a point,negative of a vector, components of a vector ,addition of vectors ,multiplication of vectors by a scalar ,position vector of a point dividing a line segment in a given ratio,definition ,geometrical interpretation ,properties and application of scalar product of vectors ,vector product of vectors
PRE MODEL EXAM (7/10/26 to 18/10/26) (Chapters1,2,3,4,5,6,7,8,9,10)			

OCTOBER	11. Three dimensional Geometry	Introduction Direction Cosines and Direction Ratios of a Line Equation of a Line in Space Angle between Two Lines Shortest Distance between Two Lines	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between 2 lines
OCTOBER	12.LINEAR PROGRAMMING	Introduction Linear Programming Problem	Introduction, related terminology such as constraints, objective function, optimization, Graphical method of solution for problems in two variables, feasible and infeasible regions (bounded OR unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).

OCTOBER	13. Probability	Introduction Conditional Probability Multiplication Theorem on Probability Independent Events Bayes' Theorem	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem.
FIRST MODEL EXAM (23/11/2026 TO 14/12/2026)			

BVM ELAMAKKARA: LOGIN RAJAN, ANURAJ N
BVM EROOR: RENUKA GOPINATH, INDU P N
BVM GIRINAGAR: BEENA V NAIR, JAYASREE L
BAV KAKKANAD: VARSHA R
BMV TRIPUNITHURA: MINU K JOY, REKHA R NAICK
BVV THRIKKAKARA: SINDHU AYYAPPAN, MADHUSUDANAN K A
BNV VELLOOR: ABHILASH G NAIR, LALITHA K

BHARATIYA VIDYA BHAVAN, KOCHI
KENDRA YEAR PLAN - 2026-2027
STD: XII- SUBJECT: ECONOMICS (030)

PART A–MACROECONOMICS	
March/ April	Unit II: Money & Banking
June	Unit I-National Income and related aggregates
July	Unit IV: Government budget and the economy Unit V: Balance of Payments
September/October	Unit III: Determination of income and employment

PART-B- INDIAN ECONOMIC DEVELOPMENT	
March/April	Unit VI: Development Experience (1947-90) and Economic Reforms since 1991 1: Indian economy on the eve of Independence 2: Indian economy 1950-1990
June	Unit VI: Development Experience (1947-90) and Economic Reforms since 1991 3: Liberalization, Privatization and Globalization: an appraisal Unit VII: Current challenges facing the Indian Economy 4: Human Capital Formation in India
July	Unit VII: Current challenges facing the Indian Economy 5: Rural development
August	Unit VII: Current challenges facing the Indian Economy 6: Employment: Growth, Informalization and other issues

	7: Environment and Sustainable Development
October	Unit VIII: Development experience of India: A comparison with neighbours 8: Comparative development experiences of India and its neighbours

Portions for the Examination- STD-XII Economics (030)

Portions for UT -I	<u>Macro Economics</u> Unit 2: Money & Banking <u>Indian Economic Development</u> 1: Indian economy on the eve of Independence
Portions for UT -2	<u>Macro Economics</u> Unit 1-National Income and related aggregates <u>Indian Economic Development</u> 2: Indian economy 1950-1990 3: Liberalization, Privatization and Globalization: an appraisal
Pre Model Examination	Portions for UT 1 and UT 2 and <u>Macro Economics</u> Unit 4: Government budget and the economy Unit 5: Balance of Payments <u>Indian Economic Development</u> 4: Human Capital Formation in India 5: Rural development 6: Employment: Growth, Informalization and other issues

	7: Environment and Sustainable Development
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Name of the School	Name of the Teacher	Signature
BVM, Elamakkara	Padmaja Venugopal	
BVM Eroor	Srilakshmi G	
BAV , Kakkanad	Renjana Thampy	
BVM, Girinagar	Hima	
BMV, Tripunithura	Devi Priya B Pilla	
BVV, Thrikkakara	Jalaja T R	
BNV, Velloor	Sreelekshmi R	

BHARATIYA VIDYA BHAVAN, KOCHI

YEAR PLAN FOR THE ACADEMIC YEAR 2026-27

Subject: PSYCHOLOGY (037)

CLASS: XII

MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH/ APRIL	Variations in Psychological Attributes	Individual differences in human functioning assessment of psychological attributes. Intelligence, theories of intelligence. Individual differences in intelligence. Culture and intelligence. Emotional intelligence. Special abilities. Creativity	Theory of multiple intelligence, Triarchic theory of intelligence, PASS model. Variations in intelligence. Some misuse of intelligence test. Characteristics of emotionally intelligent person Aptitude: Nature and measurement
MARCH/ APRIL	Meeting life challenges	Nature, types and sources of stress. Effects of stress on psychological functioning and health. Coping with Stress promoting positive health and wellbeing	A measure of stressful life events, examination anxiety stress and health, GAS, Stress and immune system lifestyle, stress management techniques, lifeskills, resilience and health
	FIRST UNIT TEST (08-06-2026 TO 16-06-2026)	(25 MARKS)	

JUNE	Self and personality	Concept of self , cognitive and behavioural aspects of self, culture and self , Concept of personality, Major approaches to the study of personality, Assessment of personality	self esteem, self efficacy, self regulation.type approaches, trait approaches, 5 factor model of personality, psychodynamic approach, behavioural approach, cultural approach, humanistic approach, self report measure, projective techniques, behavioural analysis
JULY	Psychological disorders	Concepts of abnormality classification of psychological disorder,factors underlying abnormal behaviour, major psychological disorders	Anxiety disorders, somatic symptom disorders, dissociative disorders, mood disorders, schizophrenic disorders and its subtype, OCD, stress related disorders, neurodevelopmental disorders, substance use disorders effects of commonly abused substances
	SECOND UNIT TEST (27.07.2026 to 03.08.2026)	(25 MARKS)	
JULY- AUGUST	Therapeutic Approaches	Nature and process of psychotherapy. Types of therapies. Rehabilitation of the mentally ill	Therapeutic relationship. Steps in the formation of a client's problem, behavioural therapy, relaxation procedures, Cognitive therapy,

			Humanistic- Existential therapy, Alternative therapy.
SEPTEMBER	Attitude and Social cognition	Explaining Social behaviour nature and components of attitude attitude formation and change prejudice and discrimination, Strategies for handling prejudice	Green environment: ABC components of an attitude. Attitude formation, Attitude change, attitude behaviour relationship
SEPTEMBER	PRE MODEL EXAMINATION (28-09-2026 to 09-10-2026)		
OCTOBER	Social influence and group processes	Nature and formation of groups. Types of groups. Influence of group on individual behaviour.	Group think, the minimal group paradigm experience social loafing, group polarization.
NOVEMBER	FIRST MODEL EXAMINATION (23.11.2026 to 14.12.2026)	(70+30= 100 MARKS)	
DECEMBER	MODEL PRACTICAL EXAMINATION (14-12-2026 to 21-12-2026)		
JANUARY	SECOND MODEL EXAMINATION (04.01.2027 to 22.01.2027)		
<u>SEEN AND SIGNED BY:</u>			
BVM, GIRINAGAR		ANJALIKRISHNA T	
BAV. KAKKAND		R SRUTHI	
BMV, TRIPUNITHURA		ATHIRA SIVAN, J SHILPA NAIR	

PORTIONS FOR EXAMINATION

FIRST UNIT TEST (08.06.2026 to 16.06.2026)	Chapter 1 and Chapter 3
SECOND UNIT TEST (27.07.2026 to 03.08.2026)	Chapter 2 and Chapter 4
PRE MODEL EXAMINATION (28.09.2026 to 09.10.2026)	Chapter 1 to Chapter 6
FIRST MODEL EXAMINATION (23.11.2026 to 14.12.2026)	Chapters 1-7
MODEL PRACTICAL EXAMINATION (14.12.2026 to 21.12.2026)	
SECOND MODEL EXAMINATION (04.01.2027 to 22.01.2027)	Chapters 1-7

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

MONTH	TOPIC	SUB TOPIC	CONCEPTS
MARCH	1. Bricks, Beads and Bones	* The beginning * Subsistence Strategies * Mohenjodaro -A Planned Urban Centre *Tracking Social Differences * The End of the Civilisation * Discovering the Harappan Civilisation	* Agricultural technologies * The Citadel * Looking for “luxuries” and burials * Cunningham’s confusion * Problems of interpretation
APRIL	2. Kings, Farmers and Towns	* Prinsep and Piyadassi * The Earliest States * An Early Empire * New Notions of Kingship * A Changing Countryside * Towns and Trade * Back to Basics - How Are Inscriptions Deciphered? * The Limitations of Inscriptional Evidence	* The sixteen mahajanapadas * Administering the empire * Chiefs and kings in the south * Popular perceptions of kings * Urban populations:Elites and craftspersons * Historical evidence from inscriptions
FIRST UNIT TEST JUNE 8 - 15 (25 marks)			
JUNE	3. Kinship, Caste and Class	* . The Critical Edition of the Mahabharata * Kinship and Marriage -Many Rules and Varied Practices * Social Differences:Within and Beyond the Framework of Caste * Beyond Birth Resources and Status * Explaining Social Differences: * Handling Texts Historians and the Mahabharata	* Families and Gotras * Rules of marriage * Matriliney and metronimics * The four fold varna system * Varna and access to property * Language and content - Mahabharata * The search for convergence * Archaeological evidences

JUNE/JULY	4. Thinkers, Beliefs and Buildings	* A Glimpse of Sanchi * The Background: Sacrifices and Debates * Beyond Worldly Pleasures - The Message of Mahavira * Followers of the Buddha * Stupas and Sculpture * New Religious Tradition	* The sacrificial tradition - Thantric traditions * The teachings of Mahavitra * The Buddha and the Quest for Enlightenment * The teachings of the Buddha * Discovering - the Fate of Amaravati and Sanchi * Stories in stones * The development of Mahayana Buddhism and the growth of Puranic Hinduism
SECOND UNIT TEST JULY 27 - AUGUST 3 (25 marks)			
JULY/ AUGUST	5. Through the Eyes of Travellers	* Al-Biruni and the Kitab-ul-Hind * Ibn Battuta's Rihla * François Bernier * Al-Biruni and the Sanskrit Tradition * Ibn Battuta and the Excitement of the Unfamiliar * Bernier and the "Degenerate" East * Women Slaves, Sati and Labourers	* The Kitab-ul-Hind as a source * An early globe-trotter * Comparing "East" and "West" * Overcoming barriers to understanding * Al-Biruni's description of the caste system * The Indian cities, a unique system of communication * The concept of land ownership * The condition of women in the society
AUGUST	6. Bhakti-Sufi Traditions	* A Mosaic of Religious Beliefs and Practices * Poems of Prayer Early Traditions of Bhakti * The Virashaiva Tradition in Karnataka * Religious Ferment in North India * New Strands in the Fabric Islamic Traditions * The Growth of Sufism * The Chishtis in the Subcontinent * New Devotional Paths Dialogue and Dissent in Northern India	* The integration of cults * The Alvars and Nayanars of Tamil Nadu * The popular practice of Islam * Khanqahs and silsilas * Life in the Chishti khanqah * Kabir, Baba Guru Nanak and Mirabai

AUG/ SEPT	7. An Imperial Capital : Vijayanagara	* The Discovery of Hampi * Rayas, Nayakas and Sultans * Vijayanagara - The Capital and its Environs * The Royal Centre * The Sacred Centre * Plotting Palaces, Temples and Bazaars	* The apogee and decline of the empire * Water resources * Fortifications and roads * The mahanavami dibba * Gopurams and mandapas * Other buildings in the royal centre
AUG/ SEPT	8 Peasants, Zamindars and the State	* Peasants and Agricultural Production * The Village Community * Women in Agrarian Society * Forests and Tribes * The Zamindars - Land Revenue System * The Ain-i Akbari of Abu'l Fazl Allami	* Looking for sources * Panchayats and headmen * Peasants and their lands * Caste and the rural milieu * Inroads into forests
PRE-MODEL SEPTEMBER 28 - OCTOBER 9 (80 marks)			
SEPT/OCT	9. Colonialism and the Countryside	* Bengal and the Zamindars * Why zamindars defaulted on payments * The Hoe and the Plough * A Revolt in the Countryside The Bombay Deccan * The Deccan Riots Commission	* An auction in Burdwan * Why zamindars defaulted on payments * The rise of the jotedars and zamindars resist * The Fifth Report * Paharias and Santhals * A new revenue system * The Deccan Riots Report
OCTOBER	10. Rebels and the Raj	* Pattern of the Rebellion * Awadh in Revolt * What the Rebels Wanted * Repression * Images of the Revolt	* The beginning of the mutiny * Leaders and followers * Rumours and prophecies * Subsidiary Alliance * The vision of unity * English women and the honour of Britain * Nationalist imageries

NOVEMBER	11. Mahatma Gandhi and the Nationalist Movement	* Mahatma Gandhi as a leader * The Making and Unmaking of Noncooperation * The Salt Satyagraha - a case study * The Last Heroic Days * Knowing Gandhi	* Dandi * Public voice and private scripts * Framing a picture * Through police eyes * From newspapers
NOVEMBER	12. Framing the Constitution	* A Tumultuous Time * The Vision of the Constitution * Defining Rights * The Powers of the State * The Language of the Nation	* The making of the Constituent Assembly * The problem with separate electorates * Objective Resolution * The language debate * A plea for Hindi * The fear of domination
FIRST MODEL EXAMINATION NOVEMBER 23 - DEC 14 (80 marks)			
SECOND MODEL EXAMINATION JANUARY 4 -22 (80 marks)			
PORTIONS FOR THE EXAMINATION 2026 - 2027			
PORTIONS FOR UNIT TEST 1 JUNE 8 - 15 (25 MARKS) 1. Bricks, Beads and Bones 2. Kings, Farmers and Towns			
PORTIONS FOR SECOND UNIT TEST JULY 27 - AUGUST 3 (25 MARKS) 3. Kinship, Caste and Class 4. Thinkers, Beliefs and Buildings			

PORTIONS FOR PRE MODEL SEPTEMBER 28 - OCTOBER 9 (80 MARKS)

1. Bricks, Beads and Bones
2. Kings, Farmers and Towns
3. Kinship, Caste and Class
4. Thinkers, Beliefs and Buildings
5. Through the Eyes of Travellers
6. Bhakti-Sufi Tradition
7. An Imperial Capital – Vijayanagara
8. Peasants, Zamindars and the State

PORTIONS FOR FIRST MODEL EXAMINATION NOVEMBER 24 - DEC 14 (80 MARKS)

1. Bricks, Beads and Bones
2. Kings, Farmers and Towns
3. Kinship, Caste and Class
4. Thinkers, Beliefs and Buildings
5. Through the Eyes of Travellers
6. Bhakti-Sufi Tradition
7. An Imperial Capital – Vijayanagara
8. Peasants, Zamindars and the State
9. Colonialism and the Countryside
10. Rebels and the Raj
11. Mahatma Gandhi and the Nationalist Movement
12. Framing the Constitution

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 K K

BHARATIYA VIDYA BHAVAN, KOCHI KENDRA			
YEAR PLAN FOR THE ACADEMIC YEAR 2026-27			
MONTH	TOPIC	SUB-TOPICS	CONCEPTS
MARCH	Nature and Significance of Management	Introduction	Management - concept, objectives, and importance
		Nature of Management	Management as Science, Art and Profession
		Levels of Management	Levels of Management
		Functions of Management	Management functions-planning, organizing, staffing, directing and controlling
		Co-ordination -The Essence of Management	Coordination- concept and importance
MARCH-APRIL	Principles of Management	Principles of Management - The Concept	Principles of Management-concept and significance
		Principles of Management	Fayol’s principles of management
		Taylor's Scientific Management	Taylor’s Scientific management - principles and techniques
UNIT TEST I (25 MARKS) 8 JUNE -15 JUNE			
JUNE	Business Environment	Introduction	Meaning and importance of Business environment
		Dimensions of Business Environment	Dimensions of Business Environment - Economic, Social, Technological, Political and Legal
		Demonetisation	Demonetization - concept and features
JUNE	Marketing	Introduction	Marketing – Concept, functions and philosophies
		Marketing Mix	Marketing Mix – Concept and elements
		Product	Product – branding, labelling and packaging – Concept
		Pricing	Price - Concept, Factors determining price
		Physical Distribution	Physical Distribution – concept, components and channels of distribution
		Promotion	Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations
JUNE/JULY	Financial Management	Introduction	Financial Management: Concept, role and objectives
		Financial Decisions	Financial decisions: investment, financing and dividend - Meaning and factors affecting
		Financial Planning	Financial Planning - concept and importance
UNIT TEST II (25 MARKS) 27 JULY - 3 AUGUST			
JULY	Financial Management (contd.)	Capital Structure Fixed and Working Capital	Capital Structure – concept and factors affecting capital structure Fixed and Working Capital - Concept and factors affecting their requirements
JULY	Financial Market	Introduction	Financial Markets: Concept
		Money Market	Money Market: Concept
		Capital Market	Capital market and its types (primary and secondary)
		Stock Exchange	Stock Exchange - Functions and trading procedure
		Securities and Exchange Board of India(SEBI)	Securities and Exchange Board of India (SEBI) - objectives and functions
AUGUST	Consumer Protection	Introduction	Consumer Protection: Concept and importance
		The Consumer Protection Act,2019	The Consumer Protection Act, 2019
		Who is a Consumer?	Meaning of consumer
		Rights and Responsibilities of a Consumer	Rights and responsibilities of consumers
		Who can file a complaint?	Who can file a complaint?
		Redressal Agencies uner Consumer Protection Act	Redressal machinery
		Reliefs Available	Remedies available
		Role of Consumer Organisations and NGOS	Consumer Awareness- Role of Consumer Organisations and Non-Governmental Organisations(NGOs)

AUGUST	Planning	Introduction Planning Process Types of Plans	Planning: Concept, importance and limitation Planning process Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme
SEPTEMBER	Organizing	Introduction Steps in the process of Organising Organisation Structure Delegation Decentralisation	Organising: Concept and importance Organising Process Structure of organisation- functional and divisional concept. Formal and informal organization - concept Delegation: concept, elements and importance Decentralization: concept and importance
SEPTEMBER	Staffing	Introduction Staffing as a Part of Human Resource Management Staffing Process Recruitment Selection Training and Development	Concept and importance of staffing Staffing as a part of Human Resource Management concept Staffing process Recruitment process Selection – process Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training
PRE MODEL EXAMINATION 28 SEPTEMBER - 9 OCTOBER			
OCTOBER	Directing	Introduction Elements of Direction Motivation Communication	Directing: Concept and importance Elements of Directing Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives Communication - concept, formal and informal communication; barriers to effective communication, How to overcome the barriers?
OCTOBER	Controlling	Controlling Relationship between Planning and Controlling Controlling Process	Controlling - Concept and importance Relationship between planning and controlling Steps in process of control
MODEL EXAMINATION (80 MARKS) 23 NOVEMBER (TENTATIVE)			
	CHECKED & SIGNED BY:		
	BVM ELAMAKKARA	MINI MENON	RENUKA
	BAV KAKKANAD	SUDHA VARMA	BVM GIRINAGAR : ASHMI M R
	BNV VELOOR	MANJU BALAN	BMV TRIPUNITHURA: VIJAYALAKSHMI B
	BVM EROOR	SANGEETHA PAI R	BVV THRIKAKKARA: SHERRY DEEPAK