School Syllabus

Session 2024-25

DAV PUBLIC SCHOOLS

Jharkhand Zone - G

Managed by : DAV College Managing Committee, New Delhi-110055

CLASS XI

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
ENGLISH XI

Month	Topics to be Covered
April	Prose – The Portrait of a lady Poetry- A photograph Writing – Note Making Grammar – Re-ordering / Transformation of sentence
May-June	Prose – The summer of the Beautiful White horse Poetry- The Laburnum Top Writing – Classified Advertisement Grammar – Clauses
July	Prose – We are not afraid to die..if we can be together Poetry- The voice of the rain Writing – Debate Grammar – Tenses
July	Prose – The Address Poetry- Revision Writing –Poster Grammar –
August	Prose – Mother's Day Poetry- Revision Writing –Speech Grammar –Gap Filling
September	HALF YEARLY EXAM
October	Prose – Discovering Tut: The Saga Continues Poetry- Childhood Writing – Advertisement Grammar –Voice
November	Prose – The Adventure Poetry- Father to son Writing – Article Grammar – Transformation of sentence

December	Prose – Birth ,Silk Road
	Poetry- Revision
	Writing –Poster
January	Prose – The Tale of Melon City
	Poetry- Revision
	Writing – Revision of short composition and long composition
February	Annual Exam

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
PHYSICS XI

Month	Topics to be Covered
April	**UNIT I** *Chapter-2: Units and Measurement* Need for measurement, Units of measurement , systems of units , SI unit, Fundamental and derived units, significant figures, Dimensions of physical quantity, dimensional analysis and its application .
May	**UNIT II: KINEMATICS** *Chapter -3: Motion in a straight line* Frame of reference, Motion in a straight line , Position time graph. Speed and velocity Elementary concept of differentiation and integration for describing motion,
June	uniform and non uniform motion ,instantaneous velocity ,uniformly accelerated motion , velocity time graph and Position time graphs Relations for uniformly accelerated motion (graphical treatment)
July	*Chapter -4 Motion in a plane* Scalar and vector quantities, position and displacement vector , general vectors and their notations ,equality of vectors ,multiplication of vectors by a real number, addition and subtraction of vectors, unit vector, resolution of vector in a plane .rectangular components, scalar and vector product of vectors, motion in a plane, case of uniform velocity and uniform acceleration –projectile motion .uniform circular motion two dimensions **UNIT III: LAWS OF MOTION** *Chapter -5: Laws of motion* Concept of force, Inertia, Newton's first law of motion ,momentum and Newton's

	second law of motion, Impuise, Newton's third law of motion ,Law ofconservation of linear momentum and its application, Equlibrium of concurrent forces, Static andkinetic friction, laws of friction, Lubrication Dynamics of uniform circular motion ;Centripetal force example of circular motion (vehicle on level circular road, vehicle on banked circular road)
August	**UNIT IV: WORK, ENERGY AND POWER** *Chapter -6 Work, Energy and power* Work done by a constant force and variable force, kinetic energy ,work enrgytheorem, power ,Notion of potential energy ,potential energy of spring ,conservative forces ,conservation of mechanical energy(kinetic and potential energy),non conservative forces ,motion in a verticle circle ,elastic and inelastic collisions in one and two dimensions **UNIT V: MOTION AND SYSTEM OF PARTICLES AND RIGID BODY** *Chapter -7 : system of particle and rotational motion* Centre of mass of 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 force ,torque ,angular momentum ,law of conservation of angular momentum and its application Equlibrium of rigid bodies,rigid body rotation and equations of a rotational Motion ,comparision of linear and rotational motions.Moment of inertia ,radius of gyration ,values of moment of inertia for simple geometrical object (no derivation)
September	**Half Yearly Exam**
October	. **UNIT VI: GRAVITATION** *Chapter -8 Gravitation* Kepler,s law of planetry motion, universal law of gravitation , Accelaration due to gravity and its variation with altitude and depth .Gravitational potential energy and gravitational potential ,escape velocity ,orbital velocity of a satellite. **UNIT VII: PROPERTIES OF BULK MATTER** *Chapter -9 : Mechanical properties of solids* Elastic behavior ,bulk modulus ,shear modulus of elasticity ,poisson's ratio ,elastic energy
November	*Chapter -10 Mechanical properties of Fluids* Pressure due to a fluid column,Pascal,s law and its application (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 applications ,surface energy and surface tention, angie of contact ,excess pressure across curved surface ,application of surface tension, ideas to drops, bubbles and capillary rise. *Chapter -11 Thermal properties of matter* Heat ,temperature, thermal expansion of solids liquid 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 idea of black body radiation ,Wien's displacement law.
December	*UNIT VIII **THERMODYNAMICS*** *Chapter-12 Thermodynamics* Thermal equilibrium and definition of temperature(zeroth law of thermodynamics),heat ,work and internal energy. First law of thermodynamics ,Second law of thermodynamics ,gaseous state of matter, change of condition .irreversible and cyclic process. **UNIT IX: BEHAVIOUR OF PERFECT GASES AND KINETIC THERORY OF GASES** *Chapter- 13 Kinetic Theory* Equation of state of a perfect gas ,work done in compressing a gas. Kinetic theory of gas assumptions, concept of pressure ,kinetic interpretation of of temperature ,rms speed of gas molecules ,degrees of freedom ,law of equipartion of energy(statement only) and application to specific heat capacities of gases, concept of mean free path, Avogadro's number.

January	**UNIT X: OSCILLATIONS AND WAVES** **_Chapter -14 oscillation_** Periodic motion, time period, frequency, displacement as a function of time ,periodic functions ,Simple harmonic motion and its its equation, phase, oscillations of a loaded spring, restoring force and force constant ,energy in SHM, kinetic and potential energies, simple pendulum , derivation of expression for its time period. **_Chapter-15 : Waves_** Wave motion- Transverse and longitudinal wave ,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.
February	ANNUAL EXAM

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
CHEMISTRY

Months	Unit	Topics to be covered
April	**Unit I: Some BasicConcepts 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.
May – June	Unit II: Structure of Atom	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and 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.
July	**Unit III:**	**Classification of Elements and Periodicity in Properties** **0**
		Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.
August	**Unit IV:**	**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.
September		Half yearly exam

October	**Unit VI:**	**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 U and H, 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 non- spontaneous processes, criteria for equilibrium Third law of thermodynamics (brief introduction).
November	Unit -VII	**Equilibrium** Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, hydrolysis of salts (elementary idea), buffer solution, Henderson Equation, solubility product, common ion effect (with illustrative examples).
December :-	Unit VIII: . Redox Reactions	**. 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.
	Unit XII: 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
January	Unit XIII: Hydrocarbons	**Classification of hydrocarbon** Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. **Aromatic Hydrocarbons:** Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.
February		**ANNUAL EXAM**

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
BIOLOGY

Months	Name of chapters
April	Ch-1:The Living World Ch-2: Biological classification
May –June	Ch-3: Plant Kingdom Ch-4: Animal Kingdom
July	Ch-5: Morphology of flowering plants Ch-6: Anatomy of flowering plants Ch-7: Structural organisation in animals
August	Ch-8: Cell :the unit of life Ch-10:Cell cycle and cell division
September	**Half Yearly Examination**
October	Ch-9: Bio molecules
November	Ch-11: Photosynthesis in higher plants Ch-12: Respiration in plants Ch-13: Plant growth and development
December	Ch-14: Breathing and exchange of gases Ch-15: Body fluids and circulation Ch-16: Excretory products and their elimination
January	Ch-17: Locomotion and movement Ch-18: Neural control and coordination Ch-19: Chemical coordination and integration
February	**Revision and annual examination**

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
MATHEMATICS XI

Months	Topic to be covered
April	**Sets** 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 a set. Properties of Complement.
May – June	**Relations & Functions** Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto R x R x R).Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special typeof 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 quotients of functions.
JULY	**Trigonometric Functions** 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 identity $\sin^2 x + \cos^2 x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of sinx, siny, cosx & cosy and their simple applications. Deducing identities like the following: $\tan(A \pm B) = \dfrac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$, $\cot(A \pm B) = \dfrac{\cot B \cot A \mp 1}{\cot B \pm \cot A}$, $\sin A \pm \sin B = 2 \sin \dfrac{(A \pm B)}{2} \cos \dfrac{(A \mp B)}{2}$, $\cos A + \cos B = 2 \cos \dfrac{(A+B)}{2} \cos \dfrac{(A-B)}{2}$ $\cos A - \cos B = -2 \sin \dfrac{(A+B)}{2} \sin \dfrac{(A-B)}{2}$ Identities related to sin2x, cos2x, tan2x, sin3x, cos3x and tan3x.
AUGUST	**Complex Numbers and quadratic equations** Need for complex numbers, especially root of negative 1, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane **Linear Inequalities** Linear inequalities. Algebraic solutions of linear inequalities in one vari-able and their representation on the number line. **Sequence and Series** Sequence and Series. Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M. **Straight Lines** Brief recall of two dimensional geometry from earlier classes. Slope of a line and

	angle between two lines. Various forms of equations of a line: parallel to axis, point - slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line.
September	• **Half Yearly Examination** .

October	**Binomial Theorem** Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications. **Limits and Derivatives** Derivative introduced as rate of change both as that of distance func- tion and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to scope of tangent of the curve, deriva- tive of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.
November	**Permutations and Combinations** Fundamental principle of counting. Factorial n. (n!) Permutations and combinations, derivation of Formulae for nPr and nCr and their connec- tions, simple applications. **Conic Sections** Sections of a cone: showing examples of (not problems) circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. (i) Standard equation of a circle. Solution of problems related with circles in detail. (ii) Standard equation of a Ellipse, Focus, Directrix, Ecentricity. Solution of problems related with Ellipse in detail. Word problems on (i) Circle and (ii) Ellipse.

December	**Conic Sections**
	  (i) Parabola : Standard Equation of Parabola. Solution of problems re- lated with Parabola in detail. (ii) Hyperbola : Standard Equation of Parabola. Solution of problems related with Hyperbola in detail. Related word problems on Conic sections.
	Introduction to Three-dimensional Geometry
	Coordinate axes and coordinate planes in three dimensions. Coordinatesof a point. Distance between two points.
	
	Statistics
	  (i) Measures of Dispersion : Range, Mean deviation of grouped/ungrouped data.

January	**Statistics** Measures of Dispersion: variance and standard deviation of ungrouped /grouped data. **Probability** Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.
February	Annual Exam

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
Subject- Computer Science(Code- 083)

Term 1(June – September)			
Sl No.	Month	UNIT	Chapter
1	April -May	Unit-1 Computer Systems and Organisation	• Computer System Overview • Data Representation • Boolean logic
2	June -July	Unit-2 Computational Thinking and Programming - I	• Introduction to Problem Solving • Getting started with Python • Python Fundamentals
3	August	Unit-2 Computational Thinking and Programming - I	• Data Handling • Introduction to Python Modules
	September	Half yearly exam	
Term II(October – February)			
4	October	Unit-2 Computational Thinking and Programming – I	• Flow of Control • String Manipulation
5	November	Unit-2 Computational Thinking and Programming – I	• List Manipulation • Tuples
6	December	Unit-2 Computational Thinking and Programming - I	• Dictionaries
7	January	Unit 3: Society, Law and Ethics	• Cyber Safety • Society Law And Ethics
	February	ANNUAL EXAM	

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
Subject- Physical Education XI

Month	Theory
April	Unit1- Changing trends & career in physical education
May -June	Unit 2 Olympism Unit 3 Yoga
July	Unit 4 Physical education and sports for CWSN
August	Unit 5 Physical fitness, health and wellness
September	
October	Unit 6 Test measurement evaluation
November	Unit 7 Fundamental of anatomy , physiology in sports
December	Unit8 Fundamental of kinesiology and biomechanics in sports
January	Unit 9 Psychology and sports Unit 10 Training and doping in sports
February	Annual exam

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
Subject- Painting XI

MONTH	UNIT	TOPICS

April	1.Introduction to the elements and Principles of art
	2.Pre-Historic rock Paintings & Art of Indus Valley
	3. Art of Indus Valley
		1 (a) Point,Line,Form,shape, Space,Colour & Texture
		2 (a) Itroduction: i.Wizard's dance, Bhimbethaka
		3 (a) Introduction: i.Period & Location
		  ii.Harappa and Mohenjo-daro (Now in Pakistan)
		  iii.Ropar, Lothal, Rangpur, Alamgirpur,kali Bagan,Banwali and Dholvira(in India)

May	Indus Valley	3(b) Study of sculpture and terrecottas
		  i.Dancing girl (Mohenjo-Daro)
		  ii.Male torso (Harappa)
		Study of seal: (i)Bull- Seal (Mohenjo-Daro) Decoration on earthen wares :(i)vpainted Earthen wares (jar), Mohenjo-Daro

June	Unit –II 4. Buddhist, Jain and Hindu Art	4(a) Art during Mauryan , Shunga, Kushan and Gupta period study of following sculptures Lion capital from samath (Mauryan Period) (i) Chauri bearer from Didarganj (Yakshi) (Mauryan Period) (ii) Seated Buddha from Katra Tila (iii) Jain Tirathankar (Gupta period)
July	5. Ajanta Art Unit III	5. (a) introduction to Ajanta location period , No. of caves ,chaitya & vistara ,painting & sculptures , Subject matter & techniques , etc
August	6. Temple Sculpture	6.(a) Artistic aspects of Indian temples

		(i) introduction to temple sculptures 6th to 13th CAD
September	HALF YEARLY EXAM	
October	6. Temple Sculptures	6. (a) study of Temple sculptures (i) descent of Ganga (Pallava , Mahabalipuram, Tamil nadu) (ii) Trimurti (Elephanta, Maharashtra)
November	6. Temple Sculptures	iii. Laxmi Narayan Kandriya Mahadev Temple (Chandela, Khajuraho, M.P.) (iv) Cymbal Players , Sun tempkle (Ganga Dynesty), Konark (Orissa) (v) Mother and(Vimla –Vashahi Temple, Solanki Dil;wara,Mountr Abu)
December	7.Bronzes	A. Introduction and In dian Bronze B. Method of casting (solid & hollow) C. Study & appreciation of following South Indian Bronze (i)Natraj (Thanjavur Disst, Tamil Nadu)
January	8. Indo – Islamic Architecture	Artistic aspects of the Indo- Islamic Architecture I Introduction ,study of Architectuire i. Qutub Minare, Delhi ii. Gol-Gumbaj of Bijapur
February	Annual Exam	

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
Subject- ACCOUNTANCY XI

Unit-1: Theoretical Frame Work		UNIT/TOPICS
	APRIL-MAY	**Introduction to Accounting** • Accounting- concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business. • Basic Accounting Terms- 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	**Theory Base of Accounting** • Fundamental accounting assumptions: GAAP: Concept • Basic Accounting Concept : Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, • Materiality and Objectivity • System of Accounting. Basis of Accounting: cash basis and accrual basis • Accounting Standards: Applicability of Accounting Standards (AS) and Indian Accounting Standards (Ind-AS) • Goods and Services Tax (GST): Characteristics and Advantages.

Unit-2: Accounting Process	**JULY-AUGUST**	**Recording of Business Transactions** • Voucher and Transactions: Source documents and Vouchers, Preparation of Vouchers, Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit. • Recording of Transactions: Books of Original Entry- Journal • Special Purpose books: • Cash Book: Simple, cash book with bank column and petty cashbook, • Purchases book • Sales book • Purchases return book • Sales return book • Journal proper **Note: Including trade discount, freight and cartage expenses for simple GST calculation. Ledger**: Format, Posting from journal and subsidiary books, Balancing of accounts Bank Reconciliation Statement: • Need and preparation, Bank Reconciliation Statement.
	SEPTEMBER **OCTOBER-NOVEMBER**	**Depreciation, Provisions and Reserves: • 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 recoding depreciation i. Charging to asset account ii. Creating provision for depreciation/accumulated depreciation account • Treatment of disposal of asset • Provisions, Reserves, 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. Trial balance and Rectification of Errors.• Trial balance: objectives, meaning and preparation (Scope: Trial balance with balance method only) • Errors: classification-errors of omission, commission, principles, and compensating; their effect on Trial Balance. • Detection and rectification of errors; (i) Errors which do not affect trial balance (ii) Errors which affect trial balance • preparation of suspense account.**
Unit 3: Financial Statements of Sole Proprietorship	**DECEMBER-JANUARY**	**Financial Statements**: 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. 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 managers commission. Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments. **Incomplete Records:-** Features, reasons and limitations. Ascertainment of Profit/Loss by Statement of Affairs method. (excluding conversion method) **Project Work As per CBSE guidelines.**
FEBRUARY	**ANNUAL EXAM**	

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
Subject- BUSINESS STUDIES

UNIT		TOPICS
Unit-1: Evolution and Fundamentals of Business	APRIL-MAY	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. Business – meaning and characteristics Business, profession and employment – Concept Objectives of business Classification of business activities - Industry and Commerce. Industry-types: primary, secondary, tertiary Meaning and subgroups Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) – meaning Business risk-Concept
Unit 2: Forms of Business organizations	JUNE- JULY	**Sole Proprietorship**-Concept, merits and limitations. **Partnership**-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners. **Hindu Undivided Family Business**: Concept **Cooperative Societies**-Concept, merits, and limitations. **Company** - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept. **Formation of company** - stages, important documents to be used in formation of a company. Choice of form of business organization.
Unit 3: Public, Private and Global Enterprises	AUGUST	Public sector and private sector enterprises – Concept Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company Global Enterprises – Feature Joint venture Public private partnership – concept
Unit 4:Business Services		**Business services** – meaning and types. Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account. Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking: meaning, types of digital payments Insurance – Principles. Types – life, health, fire and marine insurance – concept Postal Service - Mail, Registered Post, Parcel, Speed Post, Courier – meaning.
Unit 5: Emerging Modes of Business		E - business: concept, scope and benefits
	SEPTEMBER	HALF YEARLY EXAM

Unit 6: Social Responsibility of Business and Business Ethics	**OCTOBER**	Concept of social responsibility, Case of social responsibility, Responsibility towards owners, investors, consumers, employees, government and community, Role of business in environment protection. Business Ethics - Concept and Elements
Unit 7: Sources of Business Finance		Concept of business finance. Owners' funds- equity shares, preferences share, retained earnings. Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD)
Unit 8: Small Business and Enterprises	**NOV-DEC**	Entrepreneurship Development (ED): Concept, Characteristics and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship. Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act). Role of small business in India with special reference to rural areas. Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas.
Unit 9: Internal Trade		Internal trade - meaning and types services rendered by a wholesaler and a retailer. Types of retail-trade-Itinerant and small scale fixed shops retailers. Large scale retailers-Departmental stores, chain stores – concept. GST (Goods and Services Tax): Concept and key-features.
Unit 10: International Trade	**JANUARY**	International trade: concept and benefits. Export trade – Meaning and procedure. Import Trade - Meaning and procedure. Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP) World Trade Organization (WTO) meaning and objectives. **Unit 11: Project Work As per CBSE guidelines**.
FEBRUARY		ANNUAL EXAM

DAV PUBLIC SCHOOLS, JHARKHAND ZONE-G
Session - 2024-25
Subject- ECONOMICS

UNIT	MONTH	TOPICS
Unit 1:	APRIL-MAY	**Introduction** What is Economics? Meaning, scope, functions and importance of statistics in Economics. **Collection, Organisation and Presentation of data** Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation. Organisation of Data: Meaning and types of variables; Frequency Distribution. Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph).
Unit-4 Unit-5	JUNE-JULY	**Introduction** Meaning of microeconomics and macroeconomics; positive and normative economics What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of Production Possibility Frontier and Opportunity Cost. **Consumer's Equilibrium and Demand** Consumer's equilibrium - meaning of Utility, Marginal Utility, Law of Diminishing Marginal Utility, conditions of consumer's equilibrium using marginal utility analysis. Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium. Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method and total expenditure method.
Unit 3	August	Part A Statistical tools and interpretation for all the numerical problems and solutions ,the approprtiate economic integration may be attempted . Measure of central tendency mean , Median and mode
September		Half yearly exam
Unit 3	October	Part B

		Producer behavior and supply **Meaning of production functionshort ruts and long run total product ,average, product and marginal product** **Returns to a factor** **Cost short run cost total cost total fixed cost total variable cost average cost average fixed cost average variable cost and marginal cost meaning and their relationship.**
	November	**Revenue total average and marginal revenue – meaning and their relationship.** **Producer's equilibrium meaning and its conditions in terms of marginal revenue – marginal cost , law of supply , market supply,determinants of supply,supply schedule, supply curve and its slope ,movements along and shifta in supply curve , price elasticity of supply,measurement of price elasticity of supply –percentage change method.**
Unit 4	December	**Part A Correlation meaning and properties , scatter diagram, measure of correlation ,-karl pearson method , spearman's rank correlation.** **Introduction to index number , meaning, types,-wholesale price index, consumer price index and index of indiustrial production,, use of index number ,inflation and index number, simple aggregative method**
	January	**Part B** **Perfect competition – features, determination of market equilibrium and effects of shifts in demand and supply . simple applications of demand and supply , price ceiling and price floor PART C Developing projects in Economics.**
	February	**Annual Exam**