

**ITBP PUBLIC SCHOOL, DWARKA,  
CLASS: XI (2024-25)  
ANNUAL PLANNER**

**SUBJECT: ENGLISH**

MONTH	TOPICS	PROJECT WORK/ PRACTICAL WORK
<b>APRIL</b>	<p><b>LITERATURE:</b> <b>HORNBILL</b> The Portrait of a Lady (prose) A Photograph (poem)</p> <p><b>SNAPSHOTS:</b> The Summer of the Beautiful White Horse (prose)</p> <p><b>CREATIVE WRITING SKILLS:</b> Short writing task – Notice writing (50 words).</p>	<p>Collect old photographs and create a gallery.</p> <p>Prepare a travelogue comparing Delhi and Andaman and Nicobar</p> <p>Theme: Nature; Holiday destinations; Family members</p>
<b>MAY</b>	<p><b>READING COMPREHENSION:</b> Case-based passage with verbal/ visual inputs like statistical data, charts etc.</p> <p><b>CREATIVE WRITING SKILLS:</b> Short writing task – Classified Advertisement (50 words)</p> <p><b>LITERATURE:</b> <b>HORNBILL</b> We're Not Afraid to Die... if We Can All Be Together (prose) The Laburnum Top (poem)</p> <p><b>SNAPSHOTS:</b> The Address (prose)</p>	<p>Group discussion on concepts of Nation, Nationalism, homelessness, psychological uprooting on changing territories (The Address)</p>
<b>AUGUST</b>	<p><b>READING COMPREHENSION:</b> Revision</p> <p>Jumbled sentences</p> <p><b>CREATIVE WRITING SKILLS:</b> Advertisement drafting (50 words) based on verbal/ visual cues related to some contemporary topical issues</p>	<p>Project Work: Discovering Tut: The Saga Continues</p> <p>Watching and analyzing the documentary based on Egyptian mummification.</p>

**LITERATURE:**  
**HORNBILL**  
 Discovering Tut: the Saga Continues  
 (prose)The Voice of the Rain (poem)  
 Childhood (poem)

**SEPTEMBER**

**READING COMPREHENSION:**  
 Factual, descriptive or literary  
 passage.(Revision)

**GRAMMAR:** Re-ordering/  
 transformation of sentences

**CREATIVE WRITING SKILLS:**  
 Classified advertisement based on To  
 Let, Situation Vacant, Situation Wanted,  
 lost and found, etc.

**LITERATURE:**  
**HORNBILL**  
 Birth (prose)

Advertisement  
 drafting

**OCTOBER**

**Note-making and Summarization based  
 on a  
 passage (200-250 words)**  
**Format of note-making**  
**Enlisting abbreviations**  
**Summary writing( cultivating the habit  
 of precise writing)**

**CREATIVE WRITING SKILLS:** Short  
 writingtask – Poster (50 words)

**LITERATURE:**  
**SNAPS**  
**HOTS:**  
 Mother’s Day(play)

**CREATIVE WRITING SKILLS:**  
 Speech writing, poster writing and  
 Debate writing

**NOVEMBER**

**READING COMPREHENSION:**  
 Revision  
 Note-making and Summarization  
 based on a passage (200-250 words)  
 (Revision)

**CREATIVE WRITING SKILLS:**  
 Short writing task – Classified  
 Advertisement (50words);  
 Speech, Poster and Debate writing (120-  
 150 words) based on verbal/ visual cues  
 related to some contemporary topical  
 issues.

**LITERATURE:**  
**HORNBILL**  
 Silk Road (prose)

<b>DECEMBER</b>	<b>READING COMPREHENSION:</b> Revision  <b>GRAMMAR: Words/sentence reordering</b>  <b>CREATIVE WRITING SKILLS:</b> Speech writing, poster writing and Debate writing (Contin.....) <b>LITERATURE:</b> <b>E:HORNBILL</b> Childhood (poem) Father to Son (poem)	Creative writing : Different questions on creative writing skills.
<b>JANUARY</b>	<b>READING COMPREHENSION:</b> Revision <b>GRAMMAR:</b> Revision  <b>CREATIVE WRITING SKILLS:</b> Revision  <b>LITERATURE: Adventure(Prose)</b> <b>SNAPSHOTS:</b> Revision for Annual Examination	

**SUBJECT: MATHS**

<b>MONTH</b>	<b>CHAPTER NUMBER</b>	<b>SUB TOPIC</b>	<b>ASSIGNMENT</b>
April	Chapter 1 Sets	Finite and infinite sets, Venn Diagram	Practice Questions
May	Chapter 2 Relation and Functions	Ordered Pairs	Practice Questions
July	Chapter 2 Relation and Functions Chapter 3 Trigonometric Functions	Domain, Range and Different types of Functions Measuring angles in Radian, Unit Circle and Identities	Practice Questions
August	Chapter 4 Complex numbers and Quadratic Equations Chapter 5 Linear Inequalities Chapter 6 Permutation and Combinations	Need for complex numbers, Algebraic Properties Solution of inequalities Arrangements	Practice Questions
September	Chapter 6 Permutation and Combinations Chapter 7 Binomial Theorem	Selections Pascal's Triangle	Practice Questions

October	Chapter 8 Sequences and series Chapter 9 Straight Lines	A.M, G.M. and Sum of n terms Angle between two lines, Distance of a point from line	Practice Questions
November	Chapter 10 Conic Sections Chapter 11 Introduction to Three Dimensional Geometry	Ellipse, Parabola and Equation of Circle Coordinates in three dimensions, Distance between two points	Practice Questions
December	Chapter 12 Limits and Derivatives Chapter 13 Statistics	Rate change of two functions, Product and Quotient rule Measures of Dispersion, Variance and SD	Practice Questions
January	Chapter 14 Probability	Events, Mutually exclusive events, probability of 'not'	Practice Questions

**SUBJECT: PHYSICS**

MONTHS	CHAPTER/UNITS	TOPICS	ASSIGNMENT / WORKSHEET
APRIL	<ul style="list-style-type: none"> <li>• UNITS AND MEASUREMENT</li> <li>• MOTION IN STRAIGHT LINE</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Need for measurement:</i> Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring, Dimensions of physical quantities, dimensional analysis and its applications.</li> <li>• Uniform and non- uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time and position-time graphs. Position-time graph</li> </ul>	Assignment
JULY	<ul style="list-style-type: none"> <li>• MOTION IN PLANE</li> <li>• LAWS OF MOTION</li> <li>• WORK, ENRGY AND POWER</li> </ul>	<ul style="list-style-type: none"> <li>• Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Resolution of a vector in a plane – rectangular components. Triangle and parallelogram law of vector addition. projectile motion. Uniform circular motion.</li> </ul>	Assignment

		<ul style="list-style-type: none"> <li>Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction, lubrication. <i>Dynamics of uniform circular motion:</i> Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).</li> </ul>	
AUG	<ul style="list-style-type: none"> <li>WORK, ENERGY AND POWER</li> <li>GRAVITATION</li> </ul>	<ul style="list-style-type: none"> <li>Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces; conservation of mechanical energy (kinetic and potential energies); non-conservative forces; motion in a vertical circle, elastic and inelastic collisions in one</li> <li>Kepler's laws of planetary motion. The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy; gravitational potential. Escape velocity, orbital velocity of a satellite.</li> </ul>	Assignment
SEP	<ul style="list-style-type: none"> <li>SYSTEM OF PARTICLE</li> <li>MECHANICAL PROPERTIES OF SOLIDS</li> </ul>	<ul style="list-style-type: none"> <li>Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).</li> <li>Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.</li> </ul>	Assignment

OCT	<ul style="list-style-type: none"> <li>• MECHANICAL PROPERTIES OF FLUIDS</li> <li>• THERMAL PROPERTIES OF MATTER</li> </ul>	<ul style="list-style-type: none"> <li>• Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops</li> <li>• Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law .</li> </ul>	Assignment
NOV	<ul style="list-style-type: none"> <li>• THERMODYNAMICS</li> <li>• KINETIC THEORY OF GASES</li> </ul>	<ul style="list-style-type: none"> <li>• 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 of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes.</li> <li>• Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</li> </ul>	Assignment
DEC	<ul style="list-style-type: none"> <li>• OSCILLATIONS</li> <li>• WAVES</li> </ul>	<ul style="list-style-type: none"> <li>• Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their applications. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations</li> </ul>	Assignment

		<ul style="list-style-type: none"> <li>• of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.</li> <li>• Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.</li> </ul>	
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**SUBJECT: CHEMISTRY**

Month	Chapter	Subtopics
April	Chapter 1: Some Basic Concepts of Chemistry	<ul style="list-style-type: none"> <li>- Importance and scope of chemistry</li> <li>- Laws of chemical combination</li> <li>- Dalton's atomic theory</li> <li>- Mole concept</li> <li>- Empirical and molecular formulae</li> <li>- Stoichiometry and calculations based on stoichiometry</li> </ul>
May	Chapter 2: Structure of Atom	<ul style="list-style-type: none"> <li>- Discovery of electron, proton, and neutron</li> <li>- Thomson's model and Rutherford's model of atom</li> <li>- Bohr's model of hydrogen atom</li> <li>- Concepts of shells and subshells</li> <li>- Dual nature of matter and light</li> <li>- Quantum numbers</li> <li>- Electronic configuration of atoms</li> <li>- Stability of half-filled and completely filled orbitals</li> </ul>
July	Chapter 3: Classification of Elements and Periodicity in Properties	<ul style="list-style-type: none"> <li>- Modern periodic law and the present form of periodic table</li> <li>- Periodic trends in properties of elements (atomic radii, ionic radii, ionization enthalpy, electron gain enthalpy, electronegativity)</li> <li>- Nomenclature of elements with atomic number greater than 100</li> </ul>
August	Chapter 4: Chemical Bonding and Molecular Structure  Chapter 5: Thermodynamics	<ul style="list-style-type: none"> <li>- Ionic bond and covalent bond</li> <li>- Bond parameters</li> <li>- Lewis structure</li> <li>- VSEPR theory</li> <li>- Valence bond theory</li> <li>- Hybridization</li> <li>- Molecular orbital theory of homonuclear diatomic molecules</li> <li>- Hydrogen bond</li> </ul>
		<ul style="list-style-type: none"> <li>- Concepts of system, surroundings, work, heat, energy, intensive and extensive properties</li> <li>- First law of thermodynamics</li> <li>- Internal energy and enthalpy</li> <li>- Heat capacity and specific heat</li> </ul>

		<ul style="list-style-type: none"> <li>- Enthalpy change, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution, and dilution</li> <li>- Second law of thermodynamics (Spontaneity of processes)</li> <li>- Gibbs energy change for spontaneous and non-spontaneous processes</li> <li>- Third law of thermodynamics</li> </ul>
October	Chapter 6: Equilibrium	<ul style="list-style-type: none"> <li>- Equilibrium in physical and chemical processes</li> <li>- Dynamic nature of equilibrium</li> <li>- Law of mass action</li> <li>- Equilibrium constant (<math>K_p</math>, <math>K_c</math>)</li> <li>- Le Chatelier's principle</li> <li>- Ionic equilibrium: Acids, bases, and salts (Arrhenius, Bronsted-Lowry, and Lewis concepts)</li> <li>- Ionization of weak acids and bases</li> <li>- Buffer solutions</li> <li>- Solubility product and common ion effect</li> </ul>
October	Chapter 7: Redox Reactions	<ul style="list-style-type: none"> <li>- Concept of oxidation and reduction</li> <li>- Redox reactions</li> <li>- Oxidation number</li> <li>- Balancing redox reactions</li> <li>- Applications of redox reactions</li> </ul>
November	Chapter 8: Organic Chemistry - Some Basic Principles and Techniques	<ul style="list-style-type: none"> <li>- General introduction, classification, and IUPAC nomenclature of organic compounds</li> <li>- Electronic displacements in a covalent bond: Inductive effect, electromeric effect, resonance, and hyperconjugation</li> <li>- Fission of a covalent bond: Homolytic and heterolytic cleavage</li> <li>- Types of reagents (electrophiles and nucleophiles)</li> <li>- Types of organic reactions</li> <li>- Methods of purification (crystallization, distillation, sublimation, chromatography)</li> <li>- Qualitative and quantitative analysis of organic compounds</li> </ul>
December	Chapter 9: Hydrocarbons	<ul style="list-style-type: none"> <li>- Alkanes: Nomenclature, isomerism, conformation (Newman projections and Sawhorse structures), preparation, properties, reactions</li> <li>- Alkenes: Nomenclature, structure of double bond (ethene), geometrical isomerism, methods of preparation, properties, reactions (addition of hydrogen, halogen, water, ozone, oxidation, polymerization)</li> <li>- Alkynes: Nomenclature, structure of triple bond (ethyne), methods of preparation, properties, reactions (acidic character, addition reaction of hydrogen, halogens, water, hydrogen halides, oxidation)</li> <li>- Aromatic hydrocarbons: Introduction, IUPAC nomenclature, benzene (resonance, aromaticity), mechanism of electrophilic substitution (nitration, sulphonation, halogenation, Friedel-Crafts alkylation and acylation), directive influence of functional groups, carcinogenicity, and toxicity</li> </ul>



**SUBJECT: BIOLOGY**

MONTH	SYLLABUS
APRIL	Ch1: The Living World Ch2: Biological Classification
MAY	Ch3: Plant Kingdom
JUNE	SUMMER VACATION
JULY	Ch4: Animal Kingdom Ch5: Morphology of Flowering Plants Ch6: Anatomy of Flowering Plants.
AUGUST	Ch7: Structural Organisation in Animals Ch8: Cell-The Unit of Life Ch9: Biomolecules
SEPTEMBER	Ch-10: Cell Cycle and Cell Division REVISION FOR HALF YEARLY
OCTOBER	Ch-13: Photosynthesis in Higher Plants Ch-14: Respiration in Plants Ch 15: Plant – Growth and Development
NOVEMBER	Ch17: Breathing and Exchange of Gases Ch18: Body Fluids and Circulation Ch19: Excretory Products and Their Elimination
DECEMBER	Ch20: Locomotion and movement Ch21: Neural Control and Coordination Ch 22: Chemical Coordination and Integration
JANUARY	REVISION
FEBRUARY	ANNUAL EXAMS

SUBJECT COMPUTER SCIENCE

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENTS
APRIL	Computer System Overview	<ul style="list-style-type: none"> <li>● Basic computer organization: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB)</li> <li>● Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software</li> <li>● Operating System(OS): functions of the operating system, OS user interface</li> </ul>	Assignment
JULY	Computational Thinking and Programming - I	<p>Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition</p> <ul style="list-style-type: none"> <li>● Familiarization with the basics of Python programming: Introduction to Python, Features of</li> </ul>	Assignments of theory and practical

		<p>Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens( keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments</p> <ul style="list-style-type: none"> <li>● Knowledge of data types: Number(integer, floating point,complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.</li> </ul>	
JULY	Computational Thinking and Programming - I	<p>Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)</p> <ul style="list-style-type: none"> <li>● Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output.</li> <li>● Errors- syntax errors, logical errors, and run-time errors</li> <li>● Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow</li> <li>● Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs:</li> </ul>	Assignments of theory and practical

		<p>e.g.: absolute value, sort 3 numbers and divisibility of a number.</p> <ul style="list-style-type: none"> <li>● Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.</li> </ul>	
AUGUST	<p>Introduction to Python modules</p> <p>And</p> <p>List Manipulation</p>	<p>Importing module using 'import' and using from statement, importing math module (pi, e, sqrt(), ceil(), floor(), pow(), fabs(), sin(), cos(), tan()); random module (random(), randint(), randrange()), statistics module (mean(), median(), mode()).</p> <p>Introduction to List, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/methods—len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list.</p>	Assignments of theory and practical
SEPTEMBER	Tuples	Introduction to Tuples, indexing, tuple operations (concatenation, repetition, membership and slicing);	Assignments of theory and practical

		<p>built-in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum()); tuple assignment, nested tuple; suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.</p>	
OCTOBER	Dictionary	<p>Introduction to Dictionary , accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted()); Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them.</p>	Assignments of theory and practical
NOVEMBER	<p>Boolean Logic</p> <p>And</p> <p>Number System</p>	<ul style="list-style-type: none"> <li>● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth tables and De Morgan’s laws, Logic circuits</li> <li>● Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems</li> <li>● Encoding Schemes: ASCII, ISCII, and Unicode</li> </ul>	Assignment

		(UTF8, UTF32)	
DECEMBER	Society, Law and Ethics	<p>Digital Footprints</p> <ul style="list-style-type: none"> <li>● Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes</li> <li>● Data Protection: Intellectual property rights (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)</li> <li>● Cyber Crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, cyber trolls, cyber bullying</li> </ul>	Assignment
JANUARY	Society, Law and Ethics	<p>Cyber safety: safely browsing the web, identity protection, confidentiality</p> <ul style="list-style-type: none"> <li>● Malware: viruses, trojans, adware</li> <li>● E-waste management: proper disposal of used electronic gadgets.</li> <li>● Information Technology Act (IT Act)</li> <li>● Technology and society: Gender and disability issues while teaching and using computers</li> </ul>	Assignment
FEBRUARY- MARCH		Revision Final Exams	

SUBJECT INFORMATICS PRACTICES

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENTS
APRIL	Introduction to Computer System	Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.	Assignment
JULY	Introduction to Python	Basics of Python programming, execution modes: - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, mutable and immutable data types, statements, expression evaluation. Comments, input and output statements, data type conversion, debugging. if-else, if-elif-else, while loop, for loop	Assignment of theory and practical
AUGUST	List Manipulation	list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()	Assignment of theory and practical
SEPTEMBER	Dictionary	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del, clear()	Assignment of theory and practical
OCTOBER	Database concepts and the Structured Query Language	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of	Assignment

		domain, tuple, relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language,	
NOVEMBER	Introduction to MySQL	creating a database using MySQL, Data Types Data Definition: CREATEDATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE	Assignment of theory and practical
DECEMBER	Introduction to the Emerging Trends	Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics.	Assignment
JANUARY	Introduction to the Emerging Trends	Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	Assignment
FEBRUARY- MARCH	Revision & Final Exams		

### SUBJECT HISTORY

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENT/ WORKSHEET/ MAPWORK
APRIL	Writing and City Life Focus:	Iraq, 3rd millennium BCE a) Growth of towns b) Nature of early urban societies c) Historians' Debate on uses of writing	Assignment Map work
JULY	An Empire across Three Continents	Focus: Roman Empire, 27 BCE to 600 CE a) Political evolution b) Economic Expansion c) Religion-culture foundation d) Late Antiquity e) Historians' view on the Institution of Slavery	Assignment Map work
JULY	NOMADIC EMPIRES	Focus: The Mongol, 13th to 14th century a) The nature of nomadism b) Formation of empires c) Conquests and relations with other states d) Historians' views on nomadic societies and	Assignment Map work



		state formation	
AUG	The Three Orders	Focus: Western Europe 13th - 16th century a) Feudal society and economy b) Formation of state c) Church and society d) Historians' views on decline of feudalism	Assignment Map work
SEP	Changing Cultural Traditions	Focus: Europe 14th -17th century a) New ideas and new trends in literature and arts b) Relationship with earlier ideas c) The contribution of West Asia d) Historians' viewpoint on the validity of the notion 'European Renaissance'	Assignment Map work
OCT	Displacing Indigenous People	Focus: North America and Australia, 18th to 20th century a) European colonists in North America and Australia b) Formation of White Settler societies c) Displacement and repression of local people d) Historians' viewpoint on the impact of European settlement on indigenous population	Assignment
NOV	Paths to Modernization	Focus: East Asia, late 19th to 20th century a) Militarization and economic growth in Japan b) China and the communist alternative c) Historians' Debate on the meaning of modernization	Assignment

**SUBJECT ECONOMICS**

<b>MONTH</b>	<b>CHAPTER NUMBER</b>	<b>SUB TOPIC</b>	<b>ASSIGNMENT</b>
April	Chapter 1 Introduction ( <b>Microeconomics</b> )	Microeconomics, Macroeconomics	Practice Questions
May	Chapter 1 Introduction ( <b>Statistics</b> ) Chapter 2 Meaning, Scope and importance of economics ( <b>Statistics</b> )	Meaning of statistics, consumer, saving, producer etc.	Practice Questions
July	Chapter 2 Consumer Equilibrium ( <b>Microeconomics</b> ) Chapter 8 Measure of central tendency – Mean ( <b>Statistics</b> )	Budget line, indifference curve, utility analysis etc	Practice Questions
August	Chapter 8 Measure of central tendency -Median and mode ( <b>Statistics</b> ) Chapter 3 Demand ( <b>Microeconomics</b> )	Individual demand and market demand, movement along the curve and shift in curve etc.	Practice Questions
September	Chapter 6 Diagrammatic Presentation ( <b>Statistics</b> ) Chapter 7 Graphic Presentation ( <b>Statistics</b> )	Bar diagram, histogram, pie chart	Practice Questions

October	Chapter 4 Elasticity of Demand ( <b>Microeconomics</b> ) Chapter 5 Production Function ( <b>Microeconomics</b> ) Chapter 3 Collection of data ( <b>Statistics</b> ) Chapter 4 Organization of data ( <b>Statistics</b> )	Price elasticity of demand, production , law of variable proportion, total product, marginal product	Practice Questions
November	Chapter 6 Cost ( <b>Microeconomics</b> ) Chapter 7 Revenue ( <b>Microeconomics</b> ) Chapter 5 Tabular presentation ( <b>Statistics</b> ) Chapter 9 Measures of correlation ( <b>Statistics</b> )	Cost, total cost, marginal cost, variable cost, revenue, marginal revenue, total revenue	Practice Questions
December	Chapter 8 Producer equilibrium ( <b>Microeconomics</b> ) Chapter 9 Supply ( <b>Microeconomics</b> ) Chapter 10 Index Number ( <b>Statistics</b> )	Marginal revenue and marginal cost approach.	Practice Questions
January	Chapter 10 Main Market Forms ( <b>Microeconomics</b> ) Chapter 11 Price determination with simple application ( <b>Microeconomics</b> )	Perfect competition	Practice Questions

**SUBJECT : BUSINESS STUDIES**

<b>MONTHS</b>	<b>TOPICS</b>	<b>SUB TOPICS</b>	<b>ASSIGNMENT /PROJECT WORK</b>
APRIL- 2024	<b>Part A: Foundations of Business</b>  Nature and Purpose of Business	<ul style="list-style-type: none"> <li>• History of Trade and Commerce in India</li> <li>• Concept and characteristics of business.</li> <li>• Business, profession, and employment.</li> <li>• Objectives of business.</li> <li>• Classification of business activities.</li> <li>• Industry and Commerce.</li> </ul>	Worksheet
MAY-2024	Forms of Business Organizations	<ul style="list-style-type: none"> <li>• Sole-Proprietorship</li> <li>• Joint Hindu Family Business.</li> <li>• Partnership</li> </ul>	Assignment  Project on Virtual Industry Tour

**UNIT TEST :1**

**Chapter 1: Nature and Purpose of Business**

JULY-2024	<p>Forms of Business Organizations</p> <p>Public, Private, and Global Enterprises</p>	<ul style="list-style-type: none"> <li>• Cooperative Societies</li> <li>• Company: Private and Public.</li> <li>• Private sector and public sector.</li> <li>• Forms of organizing public sector enterprises: Departmental Undertakings, Statutory Corporations, Government Companies.</li> <li>• Global enterprises</li> <li>• Joint ventures</li> <li>• Public-private partnership.</li> </ul>	<p>Worksheet</p> <p>Group discussion on working of Public Sector in Indian Economy</p>
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**UNIT TEST : 2**  
Forms of Business Organizations

- Cooperative Societies
- Partnership

Public, Private, and Global Enterprises:

- Forms of organizing public sector enterprises: Departmental Undertakings, Statutory Corporations, Government Companies.

AUGUST-2024	<p>Business Services</p> <p>Emerging Modes of Business</p> <p>Social Responsibility of Business and Business Ethics</p>	<ul style="list-style-type: none"> <li>• Banking: Types of bank accounts, Banking services, E-banking, Bank draft, Banker's cheque.</li> <li>• Insurance: Types – life, health, fire, and marine.</li> <li>• Postal and Telecom services.</li> <li>• E-business.</li> <li>• Outsourcing: Concept, need, and scope.</li> <li>• Smart cards and ATMs</li> <li>• Concept of social responsibility.</li> <li>• Case for social responsibility.</li> <li>• Responsibility towards owners, investors, consumers, employees, government, and community.</li> <li>• Business ethics: concept and elements.</li> </ul>	<p>Activity: Banking Guide: Explaining Day to Day Banking services</p> <p>Group Discussion on emerging business trends</p> <p>Case Study</p>
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SEPTEMBER-2024	Revision for Half Yearly 2024	Revision of chapters	<ul style="list-style-type: none"> <li>• Assignments</li> <li>• Worksheets</li> </ul>
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**HALF YEARLY 2024**

1. Nature and Purpose of Business
2. Forms of Business Organizations
3. Public, Private, and Global Enterprises
4. Business Services
5. Emerging Modes of Business
6. Social Responsibility of Business and Business Ethics

OCTOBER-2024	<b>Part B Finance and Trade  Sources of Business Finance</b>	<ul style="list-style-type: none"> <li>• Concept of business finance.</li> <li>• Owners' funds: equity shares, preference shares, retained earnings.</li> <li>• Borrowed funds: debentures, bonds, loans from financial institutions, trade credit, public deposits.</li> </ul>	Preparation of Finance Flowchart
NOVEMBER-2024	<b>Small Business</b>	<ul style="list-style-type: none"> <li>• Small-scale enterprise as defined by MSMED Act, 2006.</li> <li>• Role of small business in India.</li> <li>• Government schemes and policies for small-scale industries.</li> </ul>	Extempore emphasising role of small scale business in development of an economy.
<b>UNIT TEST 3</b> Sources of Business Finance, Small Business			
DECEMBER-2024	<b>Internal Trade</b>	<ul style="list-style-type: none"> <li>• Wholesale trade and retail trade: Types of retail trade – Itinerant and fixed shops.</li> <li>• Large-scale retailers: Departmental stores, Chain stores.</li> <li>• Retail trade: Types of retail services.</li> <li>• Role and functions of Chambers of Commerce and Industry in the promotion of internal trade.</li> </ul>	Assignment
JANUARY - 2025	<b>International Business</b>	<ul style="list-style-type: none"> <li>• Concept and benefits of international trade.</li> <li>• Export trade: Meaning and procedure.</li> </ul> <p><input type="checkbox"/> Revision of all topics covered.</p>	Analysis of IEC pattern
<b>UNIT TEST 4</b> Internal Trade International Business			
FEBRUARY - 2025	<b>International Business</b>	<ul style="list-style-type: none"> <li>• Import trade: Meaning and procedure.</li> <li>• World Trade Organization (WTO) – Meaning and objectives.</li> <li>• Revision of Syllabus</li> </ul>	Solving sample papers and previous years' question papers
<b>ANNUAL EXAMS 2025</b> Complete Syllabus			

**SUBJECT : ACCOUNTANCY**

<b>MONTHS</b>	<b>TOPICS</b>	<b>SUB TOPICS</b>	<b>ASSIGNMENT /PROJECT WORK</b>
APRIL- 2024	<p><b>Part A Financial Accounting -1</b></p> <p>Theoretical Framework- Introduction to Accounting</p> <p>Basic Accounting Terms</p>	<ul style="list-style-type: none"> <li>• Meaning, Objectives, Types of Accounts</li> <li>• Accounting Information- Types, role in business, characteristics, advantages and limitations.</li> <li>• Key Terms like Capital, Liabilities, Assets, Expense, Income, Revenue ,Purchase , Sales Voucher, Debtor, Creditor.</li> </ul>	<p>Assignment on the importance and objectives of accounting information</p> <p>Worksheet</p>
MAY-2024	Theory Base of Accounting	Accounting Principles, Conventions	Practice Questions
<b>UNIT TEST 1</b>			
Theoretical Framework and Basic Accounting Terms			
JULY-2024	<p>Theory Base of Accounting, Accounting Standards and Indian Accounting Standards (Ind-AS)</p> <p>Bases of Accounting</p> <p>Accounting Equation</p>	<ul style="list-style-type: none"> <li>• Fundamental Accounting assumptions-GAAP: Concept</li> <li>• Basic Accounting Concepts- International Accounting standards</li> <li>• Cash and Accrual Base of Accounting</li> <li>• Accounting Equation: Formats and Balancing of equation</li> </ul>	<p>Practice Questions</p> <p>Practice Questions</p> <p>Practice Questions</p>
AUGUST-2024	<p>Accounting Procedures-Rules of Debit and Credit</p> <p>Recording of Business Transactions</p>	<ul style="list-style-type: none"> <li>• Basic Rules of Debit and Credit</li> <li>• Modern and Traditional Rules of Accounting</li> <li>• Source Documents</li> <li>• Vouchers: Meaning and Preparation</li> <li>• Journal Entries and Theory concepts</li> </ul>	<p>Golden Rules Flowchart Construction</p> <p>Practice Questions on real source documents</p>

**UNIT TEST 2**

1. Theory Base of Accounting, Accounting Standards and Indian Accounting Standards (Ind-AS)

<b>2. Bases of Accounting</b>			
SEPTEMBER-2024	Journal	<ul style="list-style-type: none"> <li>Compound Entries</li> </ul>	Practice Questions
<b>HALF YEARLY</b> Complete Syllabus Covered so far.			
OCTOBER-2024	Ledger  Special Purpose Books I-Cash Book  Special Purpose Books II-Other Books	<ul style="list-style-type: none"> <li>Posting of Ledger Entries</li> <li>Combined journal and ledger entries</li> <li>Balancing of Accounts</li> <li>Cash Book: Simple cash book with bank column and petty cashbook</li> <li>Purchases book</li> <li>Sales Book</li> <li>Purchases Return Book</li> <li>Sales Return Book</li> <li>Journal Proper</li> </ul>	Practice Questions
NOVEMBER-2024	Accounting of Good and Service Tax (GST)  Bank Reconciliation Statement (BRS)  Trial Balance  Depreciation and Provisions and Reserves	<ul style="list-style-type: none"> <li>Meaning of GST</li> <li>GST Journal Entries</li> <li>Need and preparation</li> <li>BRS format</li> <li>Purpose, Preparation, Errors</li> <li>Meaning, Methods of Depreciation, Provisions</li> </ul>	Practice Questions          Assignment on preparing a trial balance and rectifying errors    Assignment on calculating depreciation using different methods
<b>UNIT TEST 3</b>			
1. Ledger and Cash Book 2. GST			
DECEMBER-2024	Rectification of Errors  Part B Financial Accounting-II  Financial Statements of Sole Proprietorship	<ul style="list-style-type: none"> <li>Errors of omission and commission: rectification by passing journal entries</li> <li>Meaning of financial statements</li> <li>Purpose of financial statements</li> <li>Preparation of Trading, P&amp;L, Balance Sheet</li> </ul>	Practice Questions
JANUARY-2025	Adjustments in Preparation of financial statement	<ul style="list-style-type: none"> <li>Adjustments like Depreciation, Outstanding Expenses</li> </ul>	Practice Questions
<b>UNIT TEST 4</b>			

Financial Statements of Sole Proprietorship with adjustments			
FEBRUARY-2025	Adjustments from Incomplete Records- Single Entry System	<ul style="list-style-type: none"> <li>• Single Entry System, Statement of Affairs</li> <li>• Revision of syllabus with sample papers</li> </ul>	Practice Questions
<b>ANNUAL EXAMS 2025</b>			
<b>Complete Syllabus</b>			

**SUBJECT :HINDI**

क्र.सं.	महीना	पाठ्यक्रम विवरण	संबंधित क्रिया कलाप
1	अप्रैल	आरोह - i. नमक का दारोगा ii. मियां नसरुद्दीन गद्य कबीर मीरा	वंशीधर जैसे ईमानदार दरोगा की जानकारी लें और समाज में घट रही ऐसी घटनाओं का चित्र प्रस्तुत करें।  आपके आस पास रह रहे किसी नान बाई के जीवन शैली और उसके तालीम की जानकारी प्राप्त करें। कबीर और मीरा के चित्र बनाकर उनके पाठ्य पुस्तक से भिन्न दोहे व साखी को लिखें।
2	मई	अभिव्यक्ति और माध्यम - i. संचार के विभिन्न माध्यम ii. पत्रकारिता के विविध आयाम  आरोह - अप्पू के साथ ढाई साल	संचार के विभिन्न माध्यमों के चित्र प्रस्तुत करें और दैनिक जीवन में उपयोगिता बताएं।  फिल्म को देखकर इससे जुड़े हुए दृश्य अपने आसपास घटित हो रहे हैं उनका वर्णन करें।
3	जुलाई	i. रजनी ii. घर की याद (पद्य)  वितान - राजस्थान की रजत बूंदे	समाज में शिक्षा के व्यवसायिकता की बढ़त को रोकने के लिए समाज में घटी घटनाओं का चार्ट प्रस्तुत करें।  स्वतंत्रता संग्राम में भाग लेने वाले और शहीद होने वाले शाहिदों का चित्र प्रस्तुत करें और उनसे जुड़ी कहानियों को लिखें  जल की उपयोगिता को सिद्ध करते हुए जल के किन्हीं पांच उपयोग बताइए।
4	अगस्त	i. गलता लोहा ii. चंपा काले अक्षर नहीं चीन्हती (पद्य)  वितान - i. आलो आंधारि ii. भारतीय कलाओं में बेजोड	गलता लोहा जैसी घटनाएं आपके जीवन में घटी है तो उनका जिक्र अपने शब्दों में करें।  पढ़ाई का हमारे जीवन में क्या योगदान है बिना पढ़े हमारा जीवन किस तरह हो सकता है।  इस कहानी के माध्यम से हमें क्या सीख मिलती है कि हमारे

		लता मंगेशकर	घर काम करने वाले लोगों से हमें किस तरह का बर्ताव करना चाहिए ।  यदि आपकी रुचि संगीत में है तो आप किस तरह का वध अंदर सीखना चाहेंगे और क्यों ?
5	सितम्बर	i. जामुन का पेड़ अभिव्यक्ति और माध्यम - डायरी लिखने की कला	अगर आप सचिवालय में कार्यरत होते हैं तो व्यक्ति की किस प्रकार सहायता करते हैं आप अपने दैनिक जीवन की घटनाओं का लेखन अपने शब्दों में करें ।
6	अक्टूबर	भारत माता (गद्य )  पद्य - i. हे भूख मत मचल ii. हे मेरे जूही के फूल  अभिव्यक्ति और माध्यम - कथा पटकथा	नेहरु जी की तरह और किन नेताओं ने भारत के निर्माण में अपना योगदान दिया है उनके नाम व योगदान को लिखें ।  अत्यधिक भूख लगने पर मन में आने वाले भावों को स्पष्ट करें । मुंशी प्रेमचंद की किसी कहानी को पटकथा रूपांतरित करने के लिए अपने संवाद लिखें ।
7	नवम्बर	पद्य - i. सबसे खतरनाक ii. आओ मिलकर बचाएं गद्य - i. विदाई संभाषण  अभिव्यक्ति और माध्यम - i. कार्यालयी लेखन और प्रक्रिया	आप अपने जीवन में किसको सबसे खतरनाक मानते और क्यों तर्क सहित सारणी बनावे ।  यदि भारत से अंग्रेजों को नहीं निकाला गया होता तो आज हमारे भारत की स्थिति क्या होती अपने विचार प्रस्तुत करें ।  अपने किसी अधिकारी को एकको पत्र द्वारा अपने कार्यालय के समस्याओं से अवगत करावे ।
8	दिसम्बर	गजल अभिव्यक्ति और माध्यम i. स्ववृत्त लेखन रोजगार संबंधी आवेदन पत्र ii. कोश एक परिचय	किसी कंपनी के लिए अपने स्ववृत्त का प्रारूप तैयार करें  अ, क से प्रारम्भ पांच- पांच शब्दों को लिखें जिनका क्रम कोश के अनुसार हो ।
9	जनवरी	वितान - i. भारतीय कलाएँ ii. लेखकों के बारे में	भारत में स्थापित विभिन्न कलाओं का पत्रिका बनाकर वर्णन करें ।
10	फरवरी	पुनरावृत्ति , अभ्यास प्रश्न पत्र	दैनिक जाँच पत्र ।