SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	ENGLISH
TEXT BOOKS	**English Reader – Hornbill NCERT** **English Supplementary Reader – Snapshots NCERT**

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
1	Reading Skills	26
2	Grammar &Creative Writing Skills	23
3	Literature Textbooks and Supplementary Reading Texts	31
4	Assessment of Listening and Speaking Skills	10
5	Internal Assessment • Listening • Speaking • Project Work	10
	GRAND TOTAL	100

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED: 26 %

Hornbill: L-1 The Portrait of a Lady
          P-1 A Photograph
 	
Snapshots: L-1 The Summer of the Beautiful White Horse
 	
Grammar: Gap filling (Tenses, Clauses)
        Re-ordering / Transformation of Sentences
Writing Skills: Poster Making	

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED: 13 %
Hornbill: L-2 'We're Not Afraid to Die ….' Reading Skill: Comprehension Passage (Factual/ Descriptive/ Literary and Case-based) Writing Skills: Debate Writing	

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 13%
Hornbill: Snapshots: Writing Skill:	L-3 Discovering Tut: The Saga Continues L-2 The Address Speech Writing

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 13 %
Reading Skill: Hornbill: Writing Skills:	Note- Making and Summarization Comprehension Passage (Factual/ Descriptive/ Literary and Case-based) P-2 The Laburnum Top Classified Advertisements

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 4 %
Hornbill: P-3 The Voice of the Rain Assessment of Listening and Speaking Skills Revision for Half- Yearly Examination	

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 17 %
Hornbill: P-4 Childhood Snapshots: L-5 Mother's Day Grammar: Gap filling (Tenses, Clauses) Re-ordering / Transformation of Sentences Reading Skills: Comprehension Passage (Factual/ Descriptive/ Literary and Case-based)	

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 9 %
Hornbill: L-7 The Adventure Snapshots: L-7 Birth Writing Skills: Poster Making (Revision)	

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 4%
Hornbill: L-8 Silk Road Reading Skills: Comprehension Passage (Factual/ Descriptive/ Literary and Case-based)	

MONTH: JANUARY 2024	**PERCENTAGE OF SYLLABUS COVERED: 9 %**
Hornbill: P- 5 Father to Son Snapshots: L- 8 The Tale of Melon City	

MONTH: FEBRUARY 2024	**PERCENTAGE OF SYLLABUS COVERED:**
Revision Assessment of Listening and Speaking Skills	

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	MATHS (STANDARD)
TEXT BOOKS	NCERT MATHS
REFERENCE BOOKS	EXEMPLAR MATHS

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
1.	Sets and Functions	23
2.	Algebra	25
3.	Coordinate Geometry	12
4.	Calculus	08
5.	Statistics and Probability	12
	Total	80
	Internal Assessment	20

MONTH: APRIL - MAY 2023	PERCENTAGE OF SYLLABUS COVERED: 8 %

Sets
Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of the set of real numbers especially intervals (with notations). Algebra of sets. Difference of sets. Complement of a set, Properties of Complement sets
Relations and Functions
Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the reals with itself (upto $R \times R \times R$).
Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 12 %

Relations and Functions (con…)
 Domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.

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 sin2x + cos2x = 1, for all x. Signs of trigonometric functions and sketch of their graphs. Expressing sin (x+ y) and cos (x + y) in terms of sin x, sin y,

cosx and cos y. Deducing the identities like following:

tan (x±y) = (tanx±tany)/(1∓tanx.tany) , cot(x±y) = (cotx.coty∓1)/(cotx±coty) , sinx + siny = 2sin(x+y)/2 cos(x-y)/2 ,

cosx+cosy = 2cos(x+y)/2 cos(x-y)/2 , sinx-siny = 2cos(x+y)/2 sin(x-y)/2 , cosx-cosy = -2sin(x+y)/2 sin(x-y)/2.

Identities related to sin2x, cos2x, tan2x, sin3x, cos3x and tan3x

Complex Numbers and Quadratic Equations

Need for complex numbers, especially √(-1), to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 20 %

Complex Numbers and Quadratic Equations (cont ….)
 Argand plane

Linear Inequalities
Linear inequalities, Algebraic solutions of linear inequalities in one variable and their representation on the number line.

Binomial theorem
Historical perspective, statement and proof of the Binomial theoremfor positive integral indices. Pascals triangle, simple applications.

Statistics
Measure of dispersion; mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 6 %

Permutations and Combinations
Fundamental principle of counting. Factorial n. Permutations and combinations derivation of formulae and their connections, simple applications.

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 16%

Sequence and Series
Sequence and Series. Arithmetic Progression (A.P.), Arithmetic Mean (A.M.), Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P. Arithmetic and geometric series, infinite G.P. and its sum, geometric mean (G.M.). Relation between A.M. and G.M. Sum ton terms of the special series : $\sum n$, $\sum n^2$ and $\sum n^3$.

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 16%

Straight Line
Brief recall of 2-D from earlier classes, shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axes, point-slope form, slope-intercept form, two-point form, intercepts form and normal form. Distance of a point from a line.

Conic Sections
Sections of a cone: Circles, ellipse, parabola, hyperbola, a point, a straight line and pair of intersecting lines as a degenerated case of a conic section. . Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 16%

Introduction to Three-dimensional Geometry
Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.

Limits and Derivatives
Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit. $\lim_{x \to 0} \llbracket \log_e \llbracket (1+x) \rrbracket /x \rrbracket$, $\lim_{x \to 0} \llbracket (e^x-1)/x \rrbracket$. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 6%

Probability
Sample space, Events, Occurrence of events, not, and , or events, exhaustive events, mutually exclusive events, Axiomatic probability, connections with other theories of earlier classes, Algebra of events

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: _____ %

Revision for Annual exams.

<table>
<tr><td colspan="2" align="center">SYLLABUS 2023 - 2024</td></tr>
<tr><td>CLASS</td><td>XI</td></tr>
<tr><td>NAME OF THE SUBJECT</td><td>Applied Mathematics</td></tr>
<tr><td>TEXT BOOKS</td><td>CBSE MATERIAL</td></tr>
<tr><td>REFERENCE BOOKS</td><td>ML AGGARWAL</td></tr>
</table>

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
1.	Numbers, Quantification and Numerical Applications	09
2.	Algebra	15
3.	Mathematical Reasoning	06
4.	Calculus	10
5.	Probability	08
6.	Descriptive Statistics	12
7.	Basics of Financial Mathematics	15
8.	Coordinate Geometry	05
	Total	80
	Internal Assessment	20

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED:7.5%

UNIT II:Algebra
- Sets
- Representation of sets
- Types of sets and their notations
- Subsets
- Intervals
- Venn Diagrams
- Operations on sets

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED: 7.5%

UNIT I :Numbers, Quantification and Numerical Applications
- Binary Numbers
- Indices, Logarithm and Antilogarithm
- Laws and properties of logarithms
- Simple applications of logarithm and antilogarithm
- Numerical problems on averages, calendar, clock, time, work and distance, mensuration, seating arrangement

MONTH: JUNE 2023	PERCENTAGE OF SYLLABUS COVERED:

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 12.5%

UNIT II:Algebra(cont.)
- Relations :Ordered pairs,Cartesian product of two sets
- Domain and Range of relation
- Differentiate between Sequences and Series
- Arithmetic and Geometric progression
- Applications of AP and GP

UNIT III:Mathematical Reasoning
- Problems based on logical reasoning (coding-decoding, odd man out, blood relation, syllogism etc)

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 12.5%

UNIT II:Algebra(cont.)
- Permutations and Combinations:Factorial
- Fundamental Principle of Counting
- Applications of Permutations and combinations

UNIT VI:Descriptive Statistics
- Measure of Dispersion
- Skewness and Kurtosis
- Percentile rank and quartile rank
- Correlation (Pearson and Spearman method of correlation)

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 5%

UNIT IV : Calculus
- Introducing functions
- Domain and Range of a function
- Types of functions (Polynomial function; Rational function; Composite function; Logarithm function; Exponential function; Modulus function; Greatest Integer function, Signum function)

Graphical representation of functions

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 15%

UNIT IV : Calculus(CONT.)
- Concept of limits and continuity of a function
- Instantaneous rates of change
- Differentiation as a process of finding derivative
- Derivatives of algebraic functions using Chain rule

UNIT VII:Basics of Financial Mathematics
- Interest and interest rate
- Accumulation with simple and compound interest
- Simple and compound interest rates with equivalency
- Effective rate of interest
- Present value, net present value and future value
- Annuities, calculating value of regular annuity
- Simple applications of regular annuities (up to 3 period)

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 15 %

UNIT VII:Basics of Financial Mathematics(CONT.)
- Tax, calculation of tax and simple applications of tax calculation in Goods and
- service tax, Income Tax
- Bills, tariff rates, fixed charge, surcharge, service charge
- Calculation and interpretation of electricity bill, water supply bill and other
- supply bills
- (Comparing interest rates on various types of savings; calculating income tax;
- electricity bills, water bill; service surcharge using realistic data)

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 15 %

UNIT V: Probability
- Random experiment, sample space, events, mutually exclusive events
- Independent and Dependent Events
- Law of Total Probability
- Bayes' Theorem

MONTH: JANUARY 2023	PERCENTAGE OF SYLLABUS COVERED: 10%

UNIT VIII: Coordinate Geometry
- Straight Line
- Circles
- Parabola

MONTH: FEBRUARY 2023	PERCENTAGE OF SYLLABUS COVERED: _____ %

Revision For Annual exam

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	PHYSICS
TEXT BOOKS	NCERT
REFERENCE BOOKS	S L ARORA-NEW SIMPLIFIED PHYSICS

SYLLABUS:

UNIT / CHAPTER		DISTRIBUTION OF MARKS
Unit–I	Physical World and Measurement	10
	Chapter–1: Physical World	
	Chapter–2: Units and Measurements	
Unit-II	Kinematics	
	Chapter–3: Motion in a Straight Line	
Laws of Motion		10
Chapter–5: Laws of Motion		
Work, Energy and Power		5
Chapter–6: Work, Energy and Power		
Motion of System of Particles and Rigid Body		5
Chapter–7: System of Particles and Rotational Motion		
Gravitation		5
Chapter–8: Gravitation		
Properties of Bulk Matter		23
Chapter–9: Mechanical Properties of Solids		
Chapter–10: Mechanical Properties of Fluids		
Chapter–11: Thermal Properties of Matter		
Thermodynamics		
Chapter–12: Thermodynamics		
Behaviour of Perfect Gases and Kinetic Theory of Gases		
Chapter–13: Kinetic Theory		

Oscillations and Waves	12
Chapter–14: Oscillations	
Chapter–15: Waves	
Total marks	70

MONTH: APRIL-MAY JULY	PERCENTAGE OF SYLLABUS COVERED: _19%

Physical World and Measurement

Chapter–1: Physical World Physics-scope and excitement; nature of physical laws; Physics, technology and society.
Chapter–2: Units and Measurements Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

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 concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).
Chapter–4: Motion in a Plane Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, relative velocity, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors

Motion in a plane, cases of uniform velocity and uniform accelerationprojectile motion, uniform circular motion.

MONTH: AUGUST	PERCENTAGE OF SYLLABUS COVERED: _15%

Unit III: Laws of Motion
Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. (Recapitulation only)
Law of conservation of linear momentum and its applications.Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction, lubrication.Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on banked road).
Unit IV: Work, Energy and Power
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 and two dimensions.

Unit V: Motion of System of Particles and Rigid Body

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).

MONTH: SEPTEMBER	PERCENTAGE OF SYLLABUS COVERED: _5%

Unit VI: Gravitation

Universal law of gravitation. Acceleration due to gravity (recapitulation only) and its variation with altitude and depth.

Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.

MONTH: OCTOBER	PERCENTAGE OF SYLLABUS COVERED: _15%____

Unit VII: Properties of Bulk Matter

Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, 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 applications.

Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.

MONTH: NOVEMBER	PERCENTAGE OF SYLLABUS COVERED: _20 %

Unit VII: Properties of Bulk Matter (CONTD) Heat, temperature, (recapitulation only) 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 (recapitulation only),

thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Greenhouse effect.

Unit VIII: Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics).Heat, work and internal energy. First law of thermodynamics. Isothermal and adiabatic processes.
Second law of thermodynamics: reversible and irreversible processes. Heat engine and refrigerator

MONTH: DECEMBER	PERCENTAGE OF SYLLABUS COVERED: ___10%__

Unit IX: Behaviour of Perfect Gases and Kinetic Theory of Gases

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.

MONTH: JANUARY	PERCENTAGE OF SYLLABUS COVERED: __16 %

Unit X: Oscillations and Waves

Periodic motion - time period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.

MONTH: FEBRUARY	PERCENTAGE OF SYLLABUS COVERED: __15___ % TERM 2

Unit X: Oscillations and Waves (contd)

Wave motion. Transverse and longitudinal waves, speed of wave motion. 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

PRACTICAL SYLLABUS
PRACTICALS-30 MARKS

Two experiments one from each section   **7+7 Marks**

Practical record [experiments and activities]   **5 Marks**

One activity from any section	**3 Marks**
Investigatory Project	**3 Marks**
Viva on experiments, activities and project	**5 Marks**

Experiments

1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.
2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.

<div align="center">

OR
</div>

   To determine volume of an irregular lamina using screw gauge.
3. To determine radius of curvature of a given spherical surface by a spherometer.
4. To determine the mass of two different objects using a beam balance.
5. To find the weight of a given body using parallelogram law of vectors.
6. Using a simple pendulum, plot its L-T^2 graph and use it to find the effective length of second's pendulum.

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OR
</div>

   To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.

7. To study the relationship between force of limiting friction and normal reaction co- efficient of friction between a block and a horizontal surface.

Activities

1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.

2. To determine mass of a given body using a metre scale by principle of moments.

3. To plot a graph for a given set of data, with proper choice of scales and error bars.

4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.

5. To study the variation in range of a projectile with angle of projection.

6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).

7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

Experiments

1. To determine Young's modulus of elasticity of the material of a given wire.
   OR
   To find the force constant of a helical spring by plotting a graph between load and extension.
2. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.
3. To determine the surface tension of water by capillary rise method.

OR

   To determine the coefficient of viscosity of a given viscous liquid by measuring
   terminal velocity of a given spherical body.

4. To study the relationship between the temperature of a hot body and time by plotting
   a cooling curve.

5. To determine specific heat capacity of a given solid by method of mixtures.

6. To study the relation between frequency and length of a given wire under constant
   tension using sonometer.

OR

   To study the relation between the length of a given wire and tension for constant frequency
   using sonometer.

7. To find the speed of sound in air at room temperature using a resonance tube by two
   resonance positions.

Activities
1. To observe change of state and plot a cooling curve for molten wax.
2. To observe and explain the effect of heating on a bi-metallic strip.
3. To note the change in level of liquid in a container on heating and interpret the
    observations.
4. To study the effect of detergent on surface tension of water by observing capillary rise.
5. To study the factors affecting the rate of loss of heat of a liquid.
6. To study the effect of load on depression of a suitably clamped metre scale loaded at
    (i) its end (ii) in the middle.
7. To observe the decrease in pressure with increase in velocity of a fluid.

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	Chemistry
TEXT BOOKS	NCERT Textbooks Part 1 and Part 2
REFERENCE BOOKS	

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
1	Some Basic Concepts of Chemistry	7
2	Structure of Atom	9
3	Classification of Elements and Periodicity in Properties	6
4	Chemical Bonding and Molecular Structure	7
5	Chemical Thermodynamics	9
6	Equilibrium	7
7	Redox Reactions	4
8	Organic Chemistry: Some basic Principles and Techniques	11
9	Hydrocarbons	10
		Total- 70

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED:12___ %
Some Basic Concepts of Chemistry General Introduction: Importance and scope of Chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.	

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED:12___ %
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.	

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: _17__ %

Classification of Elements and Periodicity in Properties
Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.

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

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: __16 %

Chemical Bonding and Molecular Structure (Continued)
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.

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 nonspontaneous processes, criteria for equilibrium.
Third law of thermodynamics (brief introduction).

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: __12_ %

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).

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: __09__ %

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.

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: ___11__ %

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.

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: __6___ %

Hydrocarbons
Classification of Hydrocarbons
Aliphatic Hydrocarbons:
Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.
Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: ___5__ %

Hydrocarbons (Continued)
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.

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: _____ %
Revison	

PRACTICALS

Evaluation Scheme for Examination	Marks
Volumetric Analysis	08
Salt Analysis	08
Content Based Experiment	06
Project Work	04
Class record and viva	04
Total	**30**

PRACTICAL SYLLABUS

Micro-chemical methods are available for several of the practical experiments, wherever possible such techniques should be used.

A. Basic Laboratory Techniques

1. Cutting glass tube and glass rod

2. Bending a glass tube

3. Drawing out a glass jet

4. Boring a cork

B. Characterization and Purification of Chemical Substances

1. Determination of melting point of an organic compound.

2. Determination of boiling point of an organic compound.

3. Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid.

C. Experiments based on pH

a) Any one of the following experiments:

• Determination of pH of some solutions obtained from fruit juices, solution of known and

varied concentrations of acids, bases and salts using pH paper or universal indicator.

• Comparing the pH of solutions of strong and weak acids of same concentration.

Study the pH change in the titration of a strong base using universal indicator.

b) Study the pH change by common-ion in case of weak acids and weak bases.

D. Chemical Equilibrium

One of the following experiments:

a) Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing

the concentration of either of the ions.

b) Study the shift in equilibrium between $[Co(H2O)6]$ 2+ and chloride ions by changing the

concentration of either of the ions.

E. Quantitative Estimation

i. Using a mechanical balance/electronic balance

ii.Preparation of standard solution of Oxalic acid.

iii. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard

solution of Oxalic acid.

iv. Preparation of standard solution of Sodium carbonate.

v. Determination of strength of a given solution of hydrochloric acid by titrating it against standard

Sodium Carbonate solution.

F.   Qualitative Analysis

a) Determination of one anion and one cation in a given salt
Cations- Pb^{2+}, Cu^{2+}, As^{3+}, Al^{3+}, Fe^{3+}, Mn^{2+}, Ni^{2+}, Zn^{2+}, Co^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, NH_4^+

Anions – CO_3^{2-} , S^{2-}, NO_2^- , SO_3^{2-}, SO_4^{2-}, NO_3^- , Cl- , Br-, I-, PO_4^{3-} , , CH_3COO^- (Note: Insoluble salts excluded)

b) Detection of -Nitrogen, Sulphur, Chlorine in organic compounds.

c) PROJECTS

Scientific investigations involving laboratory testing and collecting information from other

sources.

A few suggested Projects

• Checking the bacterial contamination in drinking water by testing sulphide ion

• Study of the methods of purification of water

• Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional

variation in drinking water and study of causes of presence of these ions above permissible

limit (if any).

• Investigation of the foaming capacity of different washing soaps and the effect of addition of

Sodium carbonate on it

• Study the acidity of different samples of tea leaves.

• Determination of the rate of evaporation of different liquids Study the effect of acids and

bases on the tensile strength of fibers.

• Study of acidity of fruit and vegetable juices.

Note: Any other investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	BIOLOGY
TEXT BOOKS	Biology Textbook Class XI (NCERT)
REFERENCE BOOKS	NIL

SYLLABUS:

UNIT	TITLE	DISTRIBUTION OF MARKS
I	Diversity of Living Organisms	15
II	Structural Organization in Plants and Animals	10
III	Cell: Structure and Function	15
IV	Plant Physiology	12
V	Human Physiology	18
TOTAL		**70**

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED: 15%

UNIT I: DIVERSITY OF LIVING ORGANISMS

Chapter-1: The Living World
Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature

Chapter-2: Biological Classification
Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.

Chapter-3: Plant Kingdom
Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae (Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations)

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED: 11%

UNIT I: DIVERSITY OF LIVING ORGANISMS (contd.)

Chapter-4: Animal Kingdom
Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category).

UNIT II: STRUCTURAL ORGANIZATION IN ANIMALS AND PLANTS

Chapter-5: Morphology of Flowering Plants
Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae.

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 15%

UNIT II: STRUCTURAL ORGANIZATION IN ANIMALS AND PLANTS (contd.)

Chapter-6: Anatomy of Flowering Plants
Anatomy and functions of tissue systems in dicots and monocots.

Chapter-7: Structural Organization in Animals
Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.

UNIT III: CELL: STRUCTURE AND FUNCTION

Chapter-9: Biomolecules
Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents – Concept of Metabolism, Metabolic Basis of Living, The Living State)

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 11%

UNIT III: CELL: STRUCTURE AND FUNCTION (contd.)

Chapter-8: Cell-The Unit of Life
Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles; nucleus.

Chapter-10: Cell Cycle and Cell Division
Cell cycle, mitosis, meiosis and their significance.

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 11%

UNIT V: HUMAN PHYSIOLOGY

Chapter-17: Breathing and Exchange of Gases
Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.

Chapter-18: Body Fluids and Circulation
Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 11%

UNIT V: HUMAN PHYSIOLOGY (contd.)

Chapter-19: Excretory Products and their Elimination
Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.

Chapter-20: Locomotion and Movement
Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 5%

UNIT V: HUMAN PHYSIOLOGY (contd.)

Chapter-22: Chemical Coordination and Integration
Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease.

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 11%

UNIT V: HUMAN PHYSIOLOGY (contd.)

Chapter-21: Neural Control and Coordination
Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.

UNIT IV: PLANT PHYSIOLOGY

Chapter-13: Photosynthesis in Higher Plants
Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 5%

UNIT IV: PLANT PHYSIOLOGY (contd.)

Chapter-14: Respiration in Plants

Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic). Energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 5%

UNIT IV: PLANT PHYSIOLOGY (contd.)

Chapter-15: Plant - Growth and Development
Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA;

MONTH: MARCH 2024	PERCENTAGE OF SYLLABUS COVERED: 100%

Examination

PRACTICALS

Recommended Lab Manual:

Comprehensive Lab Manual in Biology for Class XI, Published by Laxmi Publications

Evaluation Scheme - Max. Marks: 30

Evaluation Scheme	MARKS
One Major experiment (1,3,7,8)	5
One Minor experiment (6,9,10,11,12,13)	4
Slide Preparation (2,4,5)	5
Spotting	7
Practical Record + Viva Voice	4
Investigatory Project and its Viva	5
Total	**30**

A: List of Experiments

1. Study and describe locally available common flowering plants, from family Solanaceae including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).

2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).

3. Study of osmosis by potato osmometer.

4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).

5. Study of distribution of stomata on the upper and lower surfaces of leaves.

6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.

7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.

8. Separation of plant pigments through paper chromatography.

9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

10. Test for presence of urea in urine.

11. Test for presence of sugar in urine.

12. Test for presence of albumin in urine.

13. Test for presence of bile salts in urine.

B. Study and Observe the following (spotting):

1. Parts of a compound microscope.

2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.

3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.

4. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.

5. Different types of inflorescence (cymose and racemose).

6. Human skeleton and different types of joints with the help of virtual images/models only.

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	ACCOUNTANCY
TEXT BOOKS	ACCOUNTANCY-NCERT
REFERENCE BOOKS	D.K.GOEL

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
		MARKS
1	**Part A: FINANCIAL ACCOUNTING-I**	12
	UNIT 1	
	THEORETICAL FRAMEWORK:	
	INTRODUCTION TO ACCOUNTING	
	THEORY BASE OF ACCOUNTING	
2	**UNIT 2** **ACCOUNTING PROCESS:**	44
	RECORDING OF BUSINESS TRANSACTIONS,BANK RECONCILIATION STATEMENT, DEPRECIATION, PROVISIONS AND RESERVES	
	TRIAL BALANCE AND RECTIFICATION OF ERRORS	
	Part B: FINANCIAL ACCOUNTING-II	
4	**UNIT 3** FINANCIAL STATEMENTS OF SOLE PROPRIETORSHIP	24
	TOTAL	80
	PROJECT (PART – 2)	**20**
	TOTAL	**100**

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED: 4 %

Unit 1: Theoretical Framework
Introduction to Accounting :
Basic accounting terms: Entity, business transaction, capital, drawings, liability (Non - current and current); asset (Non - current; tangible and intangible assets and current assets), receipts (capital and revenue), expenditure (capital, revenue and deferred), expense, Revenue, income, profits, gains and losses, purchases, purchases returns, sales, sales returns, goods,stock, trade receivables (debtors and bills receivable), trade payables (creditors and bills payable), vouchers, discount - trade and cash

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED: 8 %

Introduction to Accounting:
- Accounting: Meaning, 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

Theory base of accounting

- Fundamental accounting assumptions: going concern, consistency, and accrual.
- Accounting principles: accounting entity, money measurement, accounting period, full disclosure, materiality, prudence, cost concept, revenue recognition concept, matching concept and dual aspect.
- Double entry system of accounting.
- Bases of accounting - cash basis and accrual basis.
- Accounting Standards and IFRS (International Financial Reporting Standards): Concept and Objectives
- Goods and services tax : Characteristics and advantages

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 10 %

Unit 2: Accounting Process and Special Accounting Treatment
- Accounting Equation
- Rules of Debit and Credit
- Journal
- Ledger - format, posting from journal, cash book and other special purpose books, balancing of accounts.
- Trial balance: objectives and preparation (Scope: Trial Balance with balance method only)

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 20 %

- Origin of transactions- source documents (invoice, cash memo, pay in slip, cheque), preparation of vouchers - cash (debit and credit) and non cash (transfer).
- Cash Book: Simple Cash Book, Cash Book with Discount Column and Cash Book with Bank and Discount Columns, Petty Cash Book.

PROJECT WORK

Comprehensive project starting with journal entries , ledger posting and preparation of trial balance

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 5 %

- Other books: purchases book, sales book, purchases returns book, sales returns book and journal proper.
  Note: including simple GST calculations

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 5 %

- Preparation of Bank Reconciliation Statement :need and preparation.

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 8 %

Depreciation, Provisions and Reserves
- Depreciation: meaning, features need causes and factors affecting depreciation; methods of computation of depreciation: straight line method, written down value method (excluding change in method), Accounting treatment of depreciation

   i. Charging to asset account

ii. Creating provision for depreciation/accumulated depreciation account

Asset disposal Account

- Provisions and reserves: concept, objectives and difference between provisions and reserves; types of reserves- revenue reserve, capital reserve, general reserve and specific reserves, secret reserves

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 12 %

Rectification of Errors
- Errors: types-errors of omission, commission, principles, and compensating; their effect on Trial Balance.
- Detection and rectification of errors; preparation of suspense account.

Part B: Financial Accounting :
Unit 3: Financial Statements of Sole Proprietorship
- Financial Statements: objective and importance.
- Profit and loss account: gross profit, operating profit and net profit.
- Balance Sheet: need, grouping, marshalling of assets and liabilities.

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 14 %

Part B: Financial Accounting :
Unit 3: Financial Statements of Sole Proprietorship
- 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, manager's commission,abnormal loss, goods taken for personal use and goods distributed as free samples, interest on capital and managers commission
- Preparation of Trading and Profit and Loss Account and Balance Sheet of sole proprietorship.

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 14 %

Incomplete Records
Features, reasons and limitations.
Ascertainment of Profit/Loss by Statement of Affairs method. (excluding conversion method)

PROJECT WORK
Comprehensive project continued with preparation of Trading ,Profit and Loss A/c and Balance Sheet

SYLLABUS 2023-24	
CLASS	XI
NAME OF THE SUBJECT	BUSINESS STUDIES
TEXT BOOKS	Business studies - XI- NCERT

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
	Part A: Foundations of Business 1. Nature and Purpose of Business 2. Forms of Business Organisations 3. Public, Private and Global Enterprises 4. Business Services 5. Emerging Modes of Business 6. Social Responsibility of Business and Business Ethics	**16** **14** **10**
	Part B: Finance and Trade 7. Sources of Business Finance 8. Small Business 9. Internal Trade 10. International Business 11. Project Work	**20** **20** **20**
	Total	**100**

MONTH: APRIL 2022	PERCENTAGE OF SYLLABUS COVERED: 6 %

Unit 1: Nature and Purpose of Business
• Concept and characteristics of business.
• Business, profession and employment -Meaning and their distinctive features.
• Objectives of business - Economic and social, role of profit in business
• Classification of business activities: Industry and Commerce.
• Industry - types: primary, secondary, tertiary - Meaning and sub types

MONTH: MAY 2022	PERCENTAGE OF SYLLABUS COVERED: 2 %

• Commerce - trade: types (internal, external, wholesale and retail; and auxiliaries to trade: banking, insurance, transportation, warehousing, communication, and advertising.
• Business risks - Meaning, nature and cause

Unit 1: Nature and Purpose of Business
History of 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

MONTH: JULY 2022	PERCENTAGE OF SYLLABUS COVERED: 8 %

Revision of syllabus completed in the months of April and May

Forms of Business organizations
• Sole Proprietorship- meaning, features, merits and limitations.
• Hindu Undivided Family Business: Concept
• Partnership- Features, types, merits and limitations of partnership and partners, registration of a partnership firm, partnership deed. Type of partners.
• Cooperative Societies- features, types, merits and limitations.
• Company: -features, merits and limitations. private and public company and one-man company – concept
Formation of a company- four stages, important documents used in formation.
. Choice of form of business organization

MONTH: AUGUST 2022	PERCENTAGE OF SYLLABUS COVERED: 14 %

Public, Private and Global Enterprises
• Private sector and public sector enterprises.
• Forms of public sector enterprises: features, merits and limitations of departmental undertakings, statutory corporation and Government Company.
• Multinational Company – Features . Joint ventures, Public private partnership – Concept

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 issue of bank draft, banker's cheque (pay order), bank overdraft, cash credits and e- banking. Types of digital payments

• Insurance: principles, concept of life, health, fire and marine insurance.
• Postal services: mail, registered post, parcel, speed post and courier

MONTH: SEPTEMBER 2022	PERCENTAGE OF SYLLABUS COVERED: 5 %

Emerging Modes of Business
• E-business – Concept, scope and benefits

MONTH: OCTOBER 2022	PERCENTAGE OF SYLLABUS COVERED: 8 %

Social Responsibility of Business and Business Ethics
• Concept of social responsibility
• Case for social responsibility
• Responsibility towards owners, investors, consumers, employees, government and community
• Environment protection - role of business.
business ethics - Meaning and basic elements of business ethics

Sources of Business Finance
• Concept of business finance
• Owner's funds - equity shares, preference share and retained earnings - concept.

MONTH: NOVEMBER 2022	PERCENTAGE OF SYLLABUS COVERED: 17 %

Sources of Business Finance
• Borrowed funds: debentures and bonds, loan from financial institution, loans from commercial banks, public deposits, trade credit, ICD (inter corporate deposits).

Small Business
- Entrepreneurship Development (ED):Concept, Characteristics and Need Process 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) and DIC (District Industrial Centre) with special reference to rural, backward and
hilly areas.

MONTH: DECEMBER 2022	PERCENTAGE OF SYLLABUS COVERED: 30 %

Internal Trade
- GST (Goods and Services Tax): Concept and key-features
- Internal trade - meaning and types
• Services rendered by a wholesaler and a retailer
• Types of retail -trade - Itinerant and small scale fixed shops
• Large scale retailers - Departmental stores, chain store

PROJECT WORK

MONTH: JANUARY 2023	PERCENTAGE OF SYLLABUS COVERED: 7 %

International Trade
• Meaning, difference between internal trade and external trade: Meaning and characteristics of international trade.
• Export Trade - Meaning and procedure of Export Trade
• Import Trade - Meaning, and procedure
• Documents involved in International Trade; indent, letter of credit, shipping order,shipping bills, mate's receipt (DA/DP)

MONTH: FEBRUARY 2023	PERCENTAGE OF SYLLABUS COVERED: 3 %

International Trade
• World Trade Organization (WTO) meaning and objectives
Revision work

MONTH: MARCH 2023	PERCENTAGE OF SYLLABUS COVERED: _____ %

ANNUAL EXAM

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	COMPUTER SCIENCE
TEXT BOOKS	NCERT
REFERENCE BOOKS	BY SUMITA ARORA (DHANPAT RAI)

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
I	Computer Systems and Organisation	10
II	Computational Thinking and Programming - 1	45
III	Society, Law and Ethics	15
	THEORY	**70**
	PRACTICAL	**30**

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED:8%
Computer Systems and Organisation ● Basic Computer Organisation: 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) ● Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software ● Operating system (OS): functions of operating system, OS user interface	

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED:8%
Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits	

MONTH: JUNE 2023	PERCENTAGE OF SYLLABUS COVERED: _____ %
-	

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 12 %
● Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. ● Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) Computational Thinking and Programming – 1	

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 12%

● Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flow chart and pseudo code, decomposition

● Familiarization with the basics of Python programming: Introduction to Python, features of 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
Knowledge of data types: number (integer, floating point, complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types

● Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators(is, is not), membership operators(in, not in)

● Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output

● Errors: syntax errors, logical errors, runtime errors

 ● Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 10%

● Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number

● Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number etc

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 10%

Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split()

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 10%

● Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: 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

Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: 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 tupletuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 10%
Dictionary: introduction, accessing itemsin a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy(); 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 Introduction to Python modules: Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange)	

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 10%
Statistics module (mean, median, mode) Society, Law and Ethics ● Digital Footprints ● Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes ● Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache)	

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 10%
Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime ● Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. ● Safely accessing web sites: malware, viruses, trojans, adware ● E-waste management: proper disposal of used electronic gadgets ● Indian Information Technology Act (IT Act) ● Technology & Society: Gender and disability issues while teaching and using computers	

Suggested Practical

List Python Programming

● Input a welcome message and display it.

● Input two numbers and display the larger / smaller number.

● Input three numbers and display the largest / smallest number.

● Given two integers x and n, compute x^n

● Write a program to input the value of x and n and print the sum of the following

  series:

➤ $1 + x + x^2 + x^3 + x^4 + \cdots x^n$

➤ $1 - x + x^2 - x^3 + x^4 - \cdots x^n$

➤ $x + \dfrac{x^2}{2} + \dfrac{x^3}{3} + \dfrac{x^4}{4} + \cdots \dfrac{x^n}{n}$

➤ $x + \dfrac{x^2}{2!} + \dfrac{x^3}{3!} + \dfrac{x^4}{4!} + \cdots \dfrac{x^n}{n!}$

● Input a number and check if the number is a prime or composite number.

● Determine whether a number is a perfect number, an Armstrong number or a palindrome.

● Display the terms of a Fibonacci series.

● Compute the greatest common divisor and least common multiple of two integers.

● Count and display the number of vowels, consonants, uppercase, lowercase characters in string.

● Input a string and determine whether it is a palindrome or not; convert the case of characters in a string.

● Find the largest/smallest number in a list/tuple

● Input a list of numbers and swap elements at the even location with the elements at the odd location.

● Input a list/tuple of elements, search for a given element in the list/tuple.

● Input a list of numbers and test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such number from the given list of numbers.

● Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have marks above 75.

<table>
<tr><td colspan="2" align="center">**SYLLABUS 2023 - 2024**</td></tr>
<tr><td>**CLASS**</td><td>XI</td></tr>
<tr><td>**NAME OF THE SUBJECT**</td><td>INFORMATICS PRACTICES</td></tr>
<tr><td>**TEXT BOOKS**</td><td>NCERT</td></tr>
<tr><td>**REFERENCE BOOKS**</td><td>SUMITA ARORA</td></tr>
</table>

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
1	Introduction to Computer System	10
2	Introduction to Python	25
3	Database concepts and the Structured Query Language	30
4	Introduction to Emerging Trends	5
5	Practical	30
	Total	100

MONTH: -APRIL 2023	PERCENTAGE OF SYLLABUS COVERED:8%
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.	

MONTH: -MAY 2023	PERCENTAGE OF SYLLABUS COVERED: -8%
Software: purpose and types – system and application software, generic and specific purpose software. Introduction to Python Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program,	

MONTH: JUNE 2023	PERCENTAGE OF SYLLABUS COVERED: _____ %
--	

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 12.5%
Introduction to Python Indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging. Control Statements: if-else	

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: 12.5 %
Control Statements: for loop	

Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 10%
Lists: List methods and built-in functions- – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum().	

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: 10 %
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()	

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 12 %
Database concepts and the Structured Query Language Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types	

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: 11%
Data Definition: CREATE DATABASE, 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	

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 8 %
Introduction to the Emerging Trends: Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities	

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: 8 %
Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology. Revision	

Suggested Practical List

Programming in Python

1. To find average and grade for given marks.

 2. To find sale price of an item with given cost and discount (%).

3. To calculate perimeter/circumference and area of shapes such as triangle, rectangle, square and circle.

4. To calculate Simple and Compound interest.

5. To calculate profit-loss for given Cost and Sell Price.

6. To calculate EMI for Amount, Period and Interest.

7. To calculate tax - GST / Income Tax.

8. To find the largest and smallest numbers in a list.

9. To find the third largest/smallest number in a list.

10. To find the sum of squares of the first 100 natural numbers.

11. To print the first 'n' multiples of given number.

12. To count the number of vowels in user entered string.

13. To print the words starting with a alphabet in a user entered string.

14. To print number of occurrences of a given alphabet in each string.

15. Create a dictionary to store names of states and their capitals.

16. Create a dictionary of students to store names and marks obtained in 5 subjects.

17. To print the highest and lowest values in the dictionary.

Data Management: SQL Commands

18. To create a database

19. To create student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.

20. To insert the details of at least 10 students in the above table.

21. To display the entire content of table.

22. To display Rno, Name and Marks of those students who are scoring marks more than 50.

23. To find the average of marks from the student table.

24. To find the number of students, who are from section 'A'.

25. To display the information all the students, whose name starts with 'AN' (Examples: ANAND, ANGAD,..)

26. To display Rno, Name, DOB of those students who are born between '2005- 01-01' and '2005-12-31'.

27. To display Rno, Name, DOB, Marks, Email of those male students in ascending order of their names.

28. To display Rno, Gender, Name, DOB, Marks, Email in descending order of their marks.

29. To display the unique section available in the table.

SYLLABUS 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	Political Science
TEXT BOOKS	1. Indian Constitution at work 2. Political Theory
REFERENCE BOOKS	1. Arihant CBSE Political Science 2. U-like

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
	Part A: Indian Constitution at Work	
1. 2.	Constitution: Why and How? Rights in the Indian Constitution	08
3.	Election and Representation	06
4. 5. 6.	Executive Legislature Judiciary	12
7.	Federalism	06
8.	Local Government	04
9. 10.	Constitution as a Living Document The Philosophy of the Constitution	04
	Part B: Political Theory	
1	Political Theory: An Introduction	04
2 3	Freedom Equality	12
4	Social Justice	06
	Rights	04
6 7	Citizenship Nationalism	08
8	Secularism	06
	Total	80 Marks
	Project Work	20 Marks

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED: _7_ %
Ch-1 Political Theory: An Introduction Ch-2 Freedom Ch-3 Equality	

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED: _13_ %
Ch-2 Equality (Contd.) Ch-4 Social Justice Ch-5 Rights	

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: _27_ %
Ch-5 Rights (contd…) Ch-6 Citizenship Ch-7 Nationalism	

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: _40_ %
Ch-8 Secularism Ch- 1 Constitution: Why and How?	

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: _47_ %
Ch-2 Rights in the Indian Constitution Ch-3 Election and Representation Ch-4Executive	

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: _60_ %
Ch-4Executive (cont….) Ch-5Legislature Ch-6Judiciary	

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: _73_ %
Ch-7 Federalism Ch-8 Local Government	

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: _86_ %
Ch-9 Constitution as a Living Document Ch-10 The Philosophy of the Constitution	

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: _100_ %
Revision	

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: _____ %
Revision	

MONTH: MARCH 2024	PERCENTAGE OF SYLLABUS COVERED: _____ %
Revision	

SYLLABUS PSYCHOLOGY 2023 - 2024	
CLASS	XI
NAME OF THE SUBJECT	PSYCHOLOGY
TEXT BOOKS	NCERT
REFERENCE BOOKS	

SYLLABUS:

S. NO.	UNIT / CHAPTER	NO. OF PERIODS	DISTRIBUTION OF MARKS
1.	UNIT I What is Psychology?	27	11
2.	UNIT II Methods of Enquiry in Psychology	32	13
3.	UNIT IV Human Development	26	11
4.	UNIT V Sensory, Attentional and Perceptual Processes	18	08
5.	UNIT VI Learning	20	09
6.	UNIT VII Human Memory	19	08
7.	UNIT VIII Thinking	14	05
8.	UNIT IX Motivation and Emotion	14	05
	Total	**170**	**70**

PRACTICALS-30 MARKS   **60 periods**

Practical (Projects, experiments, small studies, etc.)   30 marks
One project and two experiments.
• One experiment: 15 marks
(05 marks for conduct of experiment and 10 marks for reporting)
• Practical (Experiments) file: 05 marks
• Project File: 05 marks
• Viva Voce (Project and experiments) 05 Marks
Total= 30 Marks

MONTH: APRIL 2023	**PERCENTAGE OF SYLLABUS COVERED: 19%**
UNIT I What is Psychology?	

UNIT I What is Psychology?
  1. Introduction
  2. What is Psychology?
   • Psychology as a Discipline
   • Psychology as a Natural Science
   • Psychology as a Social Science
  3. Understanding Mind and Behaviour
  4. Popular Notions about the Discipline of Psychology

5. Evolution of Psychology
6. Development of Psychology in India
7. Branches of Psychology
8. Psychology and Other Disciplines
9. Psychology in Everyday Life

Unit II Methods of Enquiry in Psychology
1. Introduction
2. Goals of Psychological Enquiry
- Steps in Conducting Scientific Research
- Alternative Paradigms of Research
3. Nature of Psychological Data
4. Some Important Methods in Psychology
    - Observational Method
    - Experimental Method
    - Correlational Research
    - Survey Research

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED: 16%

Unit II Methods of Enquiry in Psychology
The topics in this unit are:
- Psychological Testing
- Case Study
5. Analysis of Data
- Quantitative Method
- Qualitative Method
6. Limitations of Psychological Enquiry
7. Ethical Issues

UNIT IV Human Development
The topics in this unit are:
1. Introduction
2. Meaning of Development
    - Life-Span Perspective on Development
3. Factors Influencing Development
4. Context of Development
5. Overview of Developmental Stages
    - Prenatal Stage
    - Infancy
    - Childhood
    - Challenges of Adolescence
    - Adulthood and Old Age

MONTH: JULY 2023	PERCENTAGE OF SYLLABUS COVERED: 9%

UNIT V: Sensory, Attentional and Perceptual Processes
The topics in this unit are:
1. Introduction
2. Knowing the world
3. Nature and varieties of Stimulus
4. Sense Modalities
   - Functional limitation of sense organs
5. Attentional Processes
   - Selective Attention
   - Sustained Attention
6. Perceptual Processes
   - Processing Approaches in Perception
   7. The Perceiver
   8. Principles of Perceptual Organisation

Project: introduction

MONTH: AUGUST 2022	PERCENTAGE OF SYLLABUS COVERED: 16%

UNIT V: Sensory, Attentional and Perceptual Processes
   9. Perception of Space, Depth and Distance
   - Monocular Cues and Binocular Cues
10. Perceptual Constancies
11. Illusions
12. Socio-Cultural Influences on Perception

UNIT VI Learning
The topics in this unit are:
   1. Introduction
   2. Nature of Learning
   3. Paradigms of Learning
   4. Classical Conditioning
   - Determinants of Classical Conditioning
   5. Operant/Instrumental Conditioning
   - Determinants of Operant Conditioning

Practical 1

MONTH: SEPTEMBER 2022	PERCENTAGE OF SYLLABUS COVERED: 5%

UNIT VI Learning
   - Key Learning Processes
   6. Observational Learning
   7. Cognitive Learning

Project: Methodology Data collection	

MONTH: OCTOBER 2022	**PERCENTAGE OF SYLLABUS COVERED: 19%**

UNIT VI Learning
    8.   Verbal Learning
    9.   Skill Learning
    10.   Factors Facilitating Learning
    11.   Learning Disabilities
 	
UNIT VII Human Memory
The topics in this unit are:
    1.   Introduction
    2.   Nature of memory
    3.   Information Processing Approach: The Stage Model
    4.   Memory Systems: Sensory, Short-term and Long-term Memories
    5.   Levels of Processing
    6.   Types of Long-term Memory
    • Declarative and Procedural; Episodic and Semantic
 	
Practical 2	

MONTH: NOVEMBER 2022	**PERCENTAGE OF SYLLABUS COVERED: 5%**

UNIT VII Human Memory
 	
    7.   Nature and Causes of Forgetting
    • Forgetting due to Trace Decay, Interference and Retrieval Failure
    8.   Enhancing Memory
    • Mnemonics using Images and Organisation
 	
 UNIT VIII Thinking
The topics in this unit are:
    1. Introduction
    2. Nature of Thinking
    • Building Blocks of Thought
    3.   The Processes of Thinking
    4.   Problem Solving
    5. Reasoning	

MONTH: DECEMBER 2022	**PERCENTAGE OF SYLLABUS**

	COVERED: 6%

UNIT VIII Thinking

    6.   Decision-making
    7.   Nature and Process of Creative Thinking
- Nature of Creative Thinking
- Process of Creative Thinking
    8.   Thought and Language
    9.   Development of Language and Language Use

Project:
Result and interpretation

MONTH: JANUARY 2023	**PERCENTAGE OF SYLLABUS COVERED: 5%**

UNIT IX Motivation and Emotion

The topics in this unit are:
1. Introduction
2. Nature of Motivation
3. Types of Motives
   - Biological Motives
   - Psychosocial Motives
4. Maslow's Hierarchy of Needs
5. Nature of Emotions
6. Expression of Emotions
   - Culture and Emotional Expression
   - Culture and Emotional Labelling
       7.   Managing Negative Emotions
       8.   Enhancing Positive Emotions

MONTH: FEBRUARY 2023	**PERCENTAGE OF SYLLABUS COVERED: _____ %**

MONTH: MARCH 2023	**PERCENTAGE OF SYLLABUS COVERED: _____ %**

CLASS	XI
NAME OF THE SUBJECT	ECONOMICS
TEXT BOOKS	1.Statistics for Economics by Sandeep Garg or NCERT 2.Introductory Micro Economics by Sandeep garg or NCERT
REFERENCE BOOKS	1.Statistics for Economics, V.K. Ohri 2.Introductory Micro Economics, V.K.Ohri (New Edition)

SYLLABUS

S.NO	UNIT / CHAPTER	DISTRIBUTION OF MARKS
(PART A)	**STATISTICS FOR ECONOMICS** Introduction	5
	collection ,organisation , presentation of data	10
	statistical tools Central tendency – mean, median, mode Correlation analysis	10 5
	Index number **TOTAL**	10 **40**
(PART B)	**INTRODUCTORY MICROECONOMICS** Introduction	4
	Consumer Equilibrium and demand	15
	Producer behaviour and supply	15
	Forms of market and price determination under perfect competition with simple application **TOTAL**	06 **40**
(PART C)	**PROJECT WORK**	**20**

(MONTH April-May)   **(Percentage of syllabus covered 15%)**
(STATISTICS)
 Unit 1: Introduction
 What is Economics?
Meaning, scope, functions and importance of statistics in Economics

(MICRO ECONOMICS)
Unit 4: 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.

Unit 5: 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.

(MONTH JULY)   **(Percentage of syllabus covered 15%)**
STATISTICS

Unit 2: 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.

(MICRO ECONOMICS)
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.

(MONTH AUGUST)   **(Percentage of syllabus covered 15%)**
(STATISTICS)

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).
(MICRO ECONOMICS)
Price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method and total expenditure method.

(MONTH SEPTEMBER)   **(Percentage of syllabus covered 5%)**
Unit 3: Statistical Tools and Interpretation
Measures of Central Tendency- Arithmetic mean,

(MONTH OCTOBER)   **(Percentage of syllabus covered 10%)**
(STATISTICS)
Measures of Central Tendency - median and mode
(MICRO ECONOMICS)
Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.

(MONTH NOVEMBER)   **(Percentage of syllabus covered 15%)**
(STATISTICS)
Correlation – meaning and properties, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data)
(MICRO ECONOMICS)
Unit 6: Producer Behaviour and Supply
 Meaning of Production Function – Short-Run and Long-Run
Total Product, Average Product and Marginal Product.
Return to factor:

Cost: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship

Part C: Project in Economics
GUIDELINES AS GIVEN IN THE CBSE CURRICULUM

(MONTH DECEMBER)
(STATISTICS)   **(Percentage of syllabus covered 10%)**
Correlation -Spearman's rank correlation (non- repeated ranks and repeated ranks)
(MICRO ECONOMICS)
Unit 6: Producer Behaviour and Supply
 Revenue - total, average and marginal revenue - meaning and their relationship. Producer's equilibrium-meaning and its conditions in terms of marginal revenue marginal cost.

(MONTH JANUARY)
(STATISTICS)   **(Percentage of syllabus covered 15%)**
Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers, simple aggregative methods
 Unit 7: Forms of Market : Perfect Competition.
Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply

Unit 7: Forms of Market and Price Determination under Perfect Competition with simple applications.
     Simple Applications of Demand and Supply: Price ceiling, price floor.

(MONTH FEBRUARY)
Revision

	SYLLABUS 2023 - 2024	
CLASS	XI	
NAME OF THE SUBJECT	HISTORY	
TEXT BOOKS	Themes in world history N.C.E.R. T	

SYLLABUS:

S. NO.	UNIT / CHAPTER	DISTRIBUTION OF MARKS
1	Introduction of world History **Section A: Early Societies** Writing and City Life	10
2	**Section B: Empires** An empire across three continents	10
3	Nomadic Empires	10
4	**Section C: Changing Traditions** The Three Orders	10
5	Changing Cultural Traditions	10
6	**Section D: Paths to Modernization** Displacing Indigenous People	10
7	Paths To Modernization	15
8	Map work of the related themes	5
9	Project work	20
	Total	100 marks

MONTH: APRIL 2023	PERCENTAGE OF SYLLABUS COVERED: __10___ %
SECTION A: EARLY SOCIETIES THEME: Writing and city life	

MONTH: MAY 2023	PERCENTAGE OF SYLLABUS COVERED:_10_%
SECTION A: EARLY SOCIETIES THEME: Writing and city life	

MONTH: JULY 2022	PERCENTAGE OF SYLLABUS COVERED: __10___ %
Section B: Empires THEME An Empire across Three Continents	

MONTH: AUGUST 2023	PERCENTAGE OF SYLLABUS COVERED: _20____ %
THEME Nomadic Empires	

MONTH: SEPTEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: __5___ %
THEME Nomadic Empires (contd.)	

MONTH: OCTOBER 2023	PERCENTAGE OF SYLLABUS COVERED: __10___ %
Section C: Changing Traditions	

THEME The Three Orders	

MONTH: NOVEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: _10____ %
THEME The Three Orders (contd.) THEME Changing Cultural Traditions	

MONTH: DECEMBER 2023	PERCENTAGE OF SYLLABUS COVERED: _15____ %
THEME Changing Cultural Traditions (contd.) **Section D: Paths to Modernization** THEME Displacing Indigenous People	

MONTH: JANUARY 2024	PERCENTAGE OF SYLLABUS COVERED: __5___ %
THEME Paths to Modernization	

MONTH: FEBRUARY 2024	PERCENTAGE OF SYLLABUS COVERED: __5___ %
THEME Paths to Modernization (contd.)	

MONTH: MARCH 2024	
REVISION	

GENERAL STUDIES

CLASS XI

TERM 1

CURRENT TRENDS IN SOCIO EONOMIC STRUCTURE

- Socio economic structure
- Current trends in socio economic structure
- Implementing social protection strategies
- Limitations and uncertainties of socio economic structure

TERM 2

NATION BUILDING

- Meaning and importance of National Integration
- Historical context of Nation Building
- The role of education and the media in Nation Building
- Challenges and limitations of Nation Building

PHYSICAL EDUCATION 2023- 2024

SYLLABUS CLASS IX

GAME/SPORTS
APRIL – MAY 2023
 KHELO INDIA TESTS
1. INTER HOUSE
 2 LATEST GENERAL RULES OF THE GAMES/SPORTS (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).

GAMES	DESCRIPTIONS
ATHLETIC	1 SHORT DISTANCE RACES – A) 100 MTS, B) 200 MTS.,C) 400 MTS
BASKETBALL	SKILLS&TECNIQUES ,VIOLATION
BADMINTON	KNOLEDGE OG GAMES,DIMENSION AND SPECIFICATIONS
CRICKET	BASIC RULES & REGULATIONS 2.BATTING – GRIP, HOLD, STANCE& FOLLOW THROUGH
CHESS	BASIC RULES OF CHESS-HOW TO MOVE THE CHESS PIECES,SETUP,TURNS,&TAKING PIECES
FOOTBALL	LAWS OF THE GAMES ,NATIONAL &INTERNATIONAL GOVERNING BODIES.
KABADDI	BOUNDARY LINES, BAULK LINES BONUS LINES , FOULS AND PENALTY IN KABADDI
KHO-KHO	HISTORY AND EVOLUTION OF KHO KHO RULES AND REGULATIONS OF THE GAME BASIC SKILLS AND TECHNIQUES OF KHO KHO
ROPE SKIPPING	CRISS CROSS,LEARN THE BASIC JUMPS.PRACTICE OF TOE TOUCH
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL,25 MTS FREE STYLE
TENNIS	GRIP, STANCE, UNDER HAND DRIVE, UNDER ARM SERVICE
VOLLEY BALL	BASIC RULES & REGULATIONS, BASIC SKILLS AND TECHNIQUES OF VOLLEYBALL (PASSING, SETTING, HITTING, BLOCKING, SERVING)

YOGA	YOGA 1. MEANING OF YOGA
	               2 SITTING ASANA -- A. NAUKASANA
	               3 STANDING ASANA A. HASTA UTTANASANA

JULY-2023

GAMES	DESCRIPTIONS
ATHLETIC	RELAY RACE A) 4X100 MTS.
BASKETBALL	MEASUREMENT OF THE COURT., CATEGORIES OF PIVOTING
BADMINTON	SCORING SYSTEM ,SINGLE&DOUBLES
CRICKET	TYPES OF MATCHES,EMPIRE SIGNALS
CHESS	CAPTURING PIECES,CONTROL THE CENTER OF THE CHESS BOARD
KABADDI	PLAY AREA LINES, MID LINE, **GREEN CARD, YELLOW,CARD, RED CARD**
KHO-KHO	STRATEGIES AND TACTICS OF KHO KHO CONDITIONING AND TRAINING FOR KHO KHO
FOOTBALL	MEASUREMENT OF THE GROUND ,FUNDAMENTAL SKILLS & TECHNIQUE
ROPE SKIPPING	1 CRISS CROSS 2 SIDE SWING
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL.2.FREE STYLE, BACK STROKE
TENNIS	1. GRIP, STANCE, UNDER HAND DRIVE, UNDER ARM SERVICE 2. RULES & REGULATIONS OF THE GAME
VOLLEY BALL	1 BASIC RULES & REGULATIONS 2 UNDER HAND PASS 3 UNDER HAND SERVICE
+	1. MEANING OF YOGA 2 BENEFITS OF YOGA **SITTING ASANA**S -- A. NAUKASANA B.JANU SIRSASANA **STANDING ASANAS**--A.TRIKONASANA

AUGUST- 2023
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENT'S CHOICE OFFERED BY THE SCHOOL).
STRATEGIES AND TACTICS OF GAME ,CONDITIONING AND TRAINING FOR GAME.

SEPTEMBER- 2023   RELATED SPORT TERMINOLOGY.
OCTOBER - 2023   CBSE TOURNAMENTS
NOVEMBER- 2023   REVISION OF RULES AND REGULATIONS OF THE GAME.BASIC SKILLS AND TECHNIQUES OF GME
IMPORTANT NATIONAL LEVEL TOURNAMENTS & THEIR VENUES.

DECEMBER- 2023   SAFETY PRECAUTIONS AND FIRST AID RELATED TO GAME
JANUARY TO MARCH- 2024
TRACK & FIELD (ANY TWO EVENTS)
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).
LEAD-UP GAMES

PHYSICAL FITNESS TEST	50MTR. RUN, STANDING BROAD JUMP, PUSH-UP/MODIFIED PUSH-UP, SIT-UPS, SHUTTLE RUN . BODY MASS INDEX AND 600 METER RUN/WALK, INTER HOUSE ACTIVITY FOR THE RESPECTIVE MONTH.

PHYSICAL EDUCATION 2023- 2024
SYLLABUS CLASS X

GAME/SPORTS
APRIL – MAY 2023
KHELO INDIA TESTS
1 LATEST GENERAL RULES OF THE GAMES/SPORTS (ANY ONE GAME/SPORTS OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).

GAMES	DESCRIPTIONS
ATHLETIC	1 SHORT DISTANCE RACES – A) 100 MTS, B) 200 MTS.,C) 400 MTS
BASKETBALL	.RULES&REGULATIONS OF THE GAME VIOLATION –EXCESSIVE TIME TAKEN,WALKING.DOUBLE DRIBBLING.BACK COURT
BADMINTON	SCORING SYSTEM,SEQUENCE OF SERVING,FOOTWORK
CRICKET	KNOWLEDGE OF THE GAME, BOWLING STYLES ,WICKET KEEPING
CHESS	CALCULATION & TIME CONTROL , PRACTICE OF ALGEBRAIC NOTATION
FOOTBALL	RULES & REGULATIONS OF THE GAME.- STARTS& RESTARTS OF THE GAME,FOULS & MISSCONDUCT 2. MEASUREMENT OF THE GROUND.
KABADDI	BOUNDARY LINES, BAULK LINES BONUS LINES , FOULS AND PENALTY IN KABADDI
KHO-KHO	HISTORY AND EVOLUTION OF KHO KHO RULES AND REGULATIONS OF THE GAME BASIC SKILLS AND TECHNIQUES OF KHO KHO
ROPE SKIPPING	CRISS CROSS,LEARN THE BASIC JUMPS.PRACTICE OF TOE TOUCH
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL,25 MTS FREE STYLE
TENNIS	GRIP, STANCE, UNDER HAND DRIVE, UNDER ARM SERVICE
VOLLEY BALL	BASIC RULES & REGULATIONS,SYSTEM OF DEFENCE

YOGA	YOGA 1. MEANING OF YOGA
	        2 SITTING ASANA -- A. NAUKASANA
	        3 STANDING ASANA A. VAYUYASANA (AEROPLANE POSE)

JULY- 2023

GAMES	DESCRIPTIONS
ATHLETIC	RELAY RACE A) 4X100 MTS.
BASKETBALL	MEASUREMENT OF THE COURT.
BADMINTON	BACKHAND DROP SHOT, BACK HAND SMASH, FOOTWORK
CRICKET	BATTING – GRIP, HOLD, STANCE& FOLLOW THROUGH FIELD PLACEMENT
CHESS	SETUP,TURNS,AND TAKING PIECES
FOOTBALL	MEASUREMENT OF THE GROUND , BLOCKING ,PASSING ACCURACYSHOOTING PRACTICE
KABADDI	PLAY AREA LINES, MID LINE, **GREEN CARD, YELLOW,CARD, RED CARD**
KHO-KHO	STRATEGIES AND TACTICS OF KHO KHO CONDITIONING AND TRAINING FOR KHO KHO
ROPE SKIPPING	1 CRISS CROSS 2 SIDE SWING
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL.2.FREE STYLE, BACK STROKE
TENNIS	1. GRIP, STANCE, UNDER HAND DRIVE, UNDER ARM SERVICE 2. RULES & REGULATIONS OF THE GAME
VOLLEY BALL	1 GAME FAULTS ,BASIC RULES & REGULATIONS 2 UNDER HAND PASS 3 UNDER HAND SERVICE
+	1. MEANING OF YOGA 2 BENEFITS OF YOGA **SITTING ASANA**S -- A. NAUKASANA B.JANU SIRSASANA **STANDING ASANAS**--A.TRIKONASANA

AUGUST- 2023
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENT'S CHOICE OFFERED BY THE SCHOOL).
SEPTEMBER- 2023   RELATED SPORT TERMINOLOGY.
OCTOBER - 2023   CBSE TOURNAMENTS
NOVEMBER- 2023   IMPORTANT NATIONAL LEVEL TOURNAMENTS & THEIR VENUES.
DECEMBER- 2023   INTER HOUSE ACTIVITY
JANUARY TO MARCH- 2024
TRACK & FIELD (ANY TWO EVENTS)
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).
LEAD-UP GAMES

| PHYSICAL FITNESS TEST | 50MTR. RUN, STANDING BROAD JUMP, PUSH-UP/MODIFIED PUSH-UP, SIT-UPS, SHUTTLE RUN . BODY MASS INDEX AND 600 METER RUN/WALK,
INTER HOUSE ACTIVITY FOR THE RESPECTIVE MONTH. |

PHYSICAL EDUCATION 2023- 24
SYLLABUS CLASS XI

GAME/SPORTS

MAY – JUNE -2023
ONLINE INTER HOUSE TUG OF WAR / TABLE TENNIS
1 LATEST GENERAL RULES OF THE GAMES/SPORTS (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).

GAMES	DESCRIPTIONS
ATHLETIC	1 SHORT DISTANCE RACES – A) 100 MTS, B) 200 MTS.,C) 400 MTS
BASKETBALL	DIMENSION OF COURT,FRONT,BACK COURT RECTRICTED AREA,FREE THROWS
BADMINTON	BASIC SHOTS,ROTATION SYSTEM,
CRICKET	BASIC BOWLING ACTION ,BATTING – GRIP, HOLD, STANCE& FOLLOW THROUGH, BOWING CREASE, BATTING CREASE,POPPING CREASE
CHESS	BASIC RULES OF CHESS,SET UP ,MOVEMENT&CHECK
FOOTBALL	RULES & REGULATIONS OF THE GAME.2. MEASUREMENT OF THE GROUND.
KABADDI	BOUNDARY LINES, BAULK LINES BONUS LINES , FOULS AND PENALTY IN KABADDI
KHO-KHO	HISTORY AND EVOLUTION OF KHO KHO RULES AND REGULATIONS OF THE GAME BASIC SKILLS AND TECHNIQUES OF KHO KHO
ROPE SKIPPING	CRISS CROSS
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL,25 MTS FREE STYLE
TENNIS	GRIP, STANCE, UNDER HAND DRIVE, UNDER ARM SERVICE
VOLLEY BALL	BASIC RULES & REGULATIONS ,SERVING &BLOCKING
YOGA	1. MEANING OF YOGA 2 SITTING ASANA -- A. NAUKASANA 3 STANDING ASANA A. TRIKONASANA,VRIKASANA

JULY -2023
ONLINE INTER HOUSE CRICKET

GAMES	DESCRIPTIONS
ATHLETIC	RELAY RACE A) 4X100 MTS.
BASKETBALL	MEASUREMENT OF THE COURT.FOULS TECHNICAL&INTENTIONAL FOUL
BADMINTON	FUNDAMENTAL STROKES OF BADMINTON.
CRICKET	FIELDING POSITION.
CHESS	SETUP,TURNS,AND TAKING PIECES
FOOTBALL	MEASUREMENT OF THE GROUND
KABADDI	PLAY AREA LINES, MID LINE, **GREEN CARD, YELLOW,CARD, RED CARD**
KHO-KHO	STRATEGIES AND TACTICS OF KHO KHO CONDITIONING AND TRAINING FOR KHO KHO
ROPE SKIPPING	1 CRISS CROSS 2 SIDE SWING
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL.2.FREE STYLE, BACK STROKE
TENNIS	1. GRIP, STANCE, UNDER HAND DRIVE, UNDER ARM SERVICE 2. RULES & REGULATIONS OF THE GAME
VOLLEY BALL	1 DIVING & ROLLING
	1. MEANING OF YOGA 2 BENEFITS OF YOGA **SITTING ASANA**S -- A. NAUKASANA B.JANU SIRSASANA **STANDING ASANAS**--A.TRIKONASANA ,UTTANASANA

AUGUST -2023
 ONLINE INTER HOUSE VOLLEYBALL
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENT'S CHOICE OFFERED BY THE SCHOOL).
SEPTEMBER -2023   RELATED SPORT TERMINOLOGY.
OCTOBER - 2023   CBSE TOURNAMENTS PRACTICE & MATCHES
ONLINE INTER HOUSE CHESS
NOVEMBER -2023   IMPORTANT NATIONAL LEVEL TOURNAMENTS & THEIR VENUES.
ONLINE INTER HOUSE BASKET BALL
DECEMBER- 2023   PRACTICE OF MATCHES .
JANUARY TO MARCH - 2023
ONLINE INTER HOUSE BADMINTON
TRACK & FIELD (ANY TWO EVENTS)
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).
LEAD-UP GAMES

PHYSICAL FITNESS TEST	50MTR. RUN, STANDING BROAD JUMP, PUSH-UP/MODIFIED PUSH-UP, SIT-UPS, SHUTTLE RUN . BODY MASS INDEX AND 600 METER RUN/WALK, INTER HOUSE ACTIVITY FOR THE RESPECTIVE MONTH.

PHYSICAL EDUCATION 2023- 2024
SYLLABUS CLASS XII

GAME/SPORTS
APRIL – MAY 2023-24
KHELO INDIA TESTS
1 LATEST GENERAL RULES OF THE GAMES/SPORTS (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).

GAMES	DESCRIPTIONS
ATHLETIC	1 SHORT DISTANCE RACES – A) 100 MTS, B) 200 MTS.,C) 400 MTS
BASKETBALL	DEFENCE –MAN TO MAN DEFENCE
BADMINTON	SINGLE GAMES ,BASIC SHOTS,ROTATION SYSTEM,
CRICKET	FORWARD DEFENCE STROKE ,SQUARE CUT,SWEAP STROKE
CHESS	BASIC RULES OF CHESS,SET UP ,MOVEMENT&CHECK
FOOTBALL	TRAPPING,SCISSORS KICK, & TACKLING
KABADDI	BOUNDARY LINES, BAULK LINES BONUS LINES , FOULS AND PENALTY IN KABADDI
KHO-KHO	HISTORY AND EVOLUTION OF KHO KHO RULES AND REGULATIONS OF THE GAME BASIC SKILLS AND TECHNIQUES OF KHO KHO
ROPE SKIPPING	CRISS CROSS
SWIMMING	FLOATING, BREATHING, KICKING, PADDLING, ARM PULL,25 MTS FREE STYLE
TENNIS	STANCE,SEMI OPEN STANCE ,FORE HAND SERVICE
VOLLEY BALL	BASIC RULES & REGULATIONS ,SERVING &BLOCKING
YOGA	1. MEANING OF YOGA 2 SITTING ASANA -- A. NAUKASANA 3 STANDING ASANA A. TRIKONASANA,VRIKASANA

JULY -2023

GAMES	DESCRIPTIONS
ATHLETIC	RELAY RACE A) 4X100 MTS.
BASKETBALL	MEASUREMENT OF THE COURT.FOULS TECHNICAL&INTENTIONAL FOUL
BADMINTON	FUNDAMENTAL STROKES OF BADMINTON.
CRICKET	FIELDING POSITION.
CHESS	SETUP,TURNS,AND TAKING PIECES
FOOTBALL	MEASUREMENT OF THE GROUND
KABADDI	PLAY AREA LINES, MID LINE, **GREEN CARD, YELLOW,CARD, RED CARD**
KHO-KHO	STRATEGIES AND TACTICS OF KHO KHO CONDITIONING AND TRAINING FOR KHO KHO
ROPE SKIPPING	1 CRISS CROSS 2 SIDE SWING
SWIMMING	PRACTICEOF KICKS ,WATER RUNNING SCISSORS KICKS
TENNIS	1. HALF VOLLEY,OVER HEAD SMASH 2. RULES & REGULATIONS OF THE GAME
VOLLEY BALL	1 SMASHING , BLOCKING
+	1. MEANING OF YOGA 2 BENEFITS OF YOGA **SITTING ASANA**S -- A. NAUKASANA B.JANU SIRSASANA **STANDING ASANAS--**A.TRIKONASANA ,UTTANASANA

AUGUST- 2023
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENT'S CHOICE OFFERED BY THE SCHOOL).
SEPTEMBER- 2023   RELATED SPORT TERMINOLOGY.
OCTOBER- 2023   CBSE TOURNAMENTS PRACTICE & MATCHES
NOVEMBER- 2023   IMPORTANT NATIONAL LEVEL TOURNAMENTS & THEIR VENUES.
DECEMBER- 2023   PRACTICE OF MATCHES ,INTER HOUSE ACTIVITY
JANUARY TO MARCH 2024

TRACK & FIELD (ANY TWO EVENTS)
FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).
LEAD-UP GAMES

PHYSICAL FITNESS TEST	50MTR. RUN, STANDING BROAD JUMP, PUSH-UP/MODIFIED PUSH-UP, SIT-UPS, SHUTTLE RUN . BODY MASS INDEX AND 600 METER RUN/WALK, INTER HOUSE ACTIVITY FOR THE RESPECTIVE MONTH.

  TRACK & FIELD (ANY TWO EVENTS)FUNDAMENTAL SKILLS OF GAME/SPORT (ANY ONE GAME/SPORT OF STUDENTS' CHOICE OFFERED BY THE SCHOOL).

LEAD-UP GAMES

PHYSICAL FITNESS TEST	50MTR. RUN, STANDING BROAD JUMP, PUSH-UP/MODIFIED PUSH-UP, BENT KNEE SIT-UPS, SHUTTLE RUN 4X100 RUN, BODY MASS INDEX AND 600 METER RUN/WALK, INTER HOUSE ACTIVITY FOR THE RESPECTIVE MONTH.

WORK EXPERIENCE

2023-24

- Picturesque : Representing Consumer Issues Through Innovative Cartoons/Posters

- Young India Fit India- Workouts/Yoga

- Decorating Diyas And Making Torans For Diwali

- Science-Mathanging

- Think Before You Click

- Trailer Making

- Puppet Making

- Making An Oxygen Generator

- Radio Show

- Design Thinking And Innovation