GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2023-2024]

Class: XII **Subject: English – Core**

Prescribed Books :

1. **Flamingo** : English Reader published by National Council of Education Research and Training, New Delhi
2. **Vistas** : Supplementary Reader published by National Council of Education Research and Training, New Delhi.

Flamingo:

Prose:	**Poetry:**
1. The Last Lesson	1. My Mother at Sixty Six
2. Lost Spring	2. Keeping Quiet
3. Deep Water	3. A Thing of Beauty
4. The Rattrap	4. A Roadside Stand
5. Indigo	5. Aunt Jennifer's Tigers
6. Poets and Pancakes	
7. The Interview	
8. Going Places	

Vistas:

1. The Third Level
2. The Tiger King
3. Journey to the End of the Earth
4. The Enemy
5. On the Face of It
6. Memories of Childhood (Zitkala —Sa & Bama)

Month	No. of Working Days	Chapters to be covered	Activity/ Projects	Test/ Sem.	Prescribed Book	Publication
April	17	**Flamingo** – The Last Lesson, **Poetry** - My Mother at Sixty six **Writing** – Notice, Article **Reading** – Unseen Passage			Main Reader: Flamingo Supplementary Reader: Vistas	NCERT
May	10	**Vistas** – The Third Level **Vistas** – The Tiger King				
June	09	**Flamingo** – Lost Spring **Vistas** – Journey to the End of the Earth **Writing** – Invitations & Replies				
July	20	**Flamingo** – Deep water , The Rattrap **Poetry**- Keeping Quiet **Vistas** – The Enemy **Writing** – Business Letter, Official Letter, Letter to the Editor ,Job Application				
August	21	**Flamingo** – Indigo & Poets & Pancakes **Poetry** - A Thing of Beauty & A Roadside stand **Writing** – **Article Writing and Report writing**				
September	09	**Vistas** – On the face of it. **Reading** – Revision & Practice		**H.Y. Exam**		
October	17	**Flamingo** – The Interview & Going Places **Poetry** – Aunt Jennifer's Tigers				
November	14	**Vistas** – Memories of Childhood (Zitkala -Sa & Bama) **Reading** – Revision & Practice				
December	15	**REVISION & Pre-Board Examination**				

****

Syllabus (2023-24)

Class –XII **Subject - HINDI CORE (302)**

पुस्तकों के नाम --(1).आरोह भाग 2 (2).वितान भाग 2 (3)अभिव्यक्ति और माध्यम

पुस्तकों का मासिक विभाजन:----

Month's Name	No. of Working Days	Chapter ./ Topic	
April	17	गद्य पाठ --1.भक्तिन पद्य पाठ --आत्म परिचय, एक दिन (दिन जल्दी जल्दी ढलता है) वितान --पाठ 1 . सिल्वर वेडिंग जनसंचार माध्यम, अपठित पद्यांश ,आलेख लेखन	
May	10	गद्य पाठ --2. बाजार दर्शन पद्य पाठ-- पतंग, कविता के बहाने	
June	09	पद्य पाठ-- बात सीधी थी पर रचनात्मक लेखन, कहानी लेखन	
July	20	गद्य पाठ—3.काले मेघा पानी दे पद्य पाठ-- कैमरे में बंद अपाहिज, उषा वितान --पाठ 2 - जूझ समाचार लेखन,(उल्टा पिरामिड शैली) आलेख, अपठित गद्यांश, नाटक लेखन	
August	21	गद्य पाठ--5 पहलवान की ढोलक पद्य पाठ-- बादल राग, कवितावली प्रिंट माध्यम संपादकीय, अपठित पद्यांश ,रचनात्मक लेखन	
September	09	गद्य और पद्य ---- पुनरावृति कार्य रचनात्मक लेखन ,फीचर लेखन, आलेख लेखन,	
		अर्धवार्षिक परीक्षा	
October	17	गद्य पाठ-- शिरीष के फूल पद्य पाठ-- लक्ष्मण मूर्छा और राम का विलाप वितान-- पाठ 3. अतीत में दबे पांव रचनात्मक लेखन ,रचनात्मक लेखन, फीचर लेखन	
November	14	गद्य पाठ-- श्रम विभाजन और जाति प्रथा, मेरी कल्पना का आदर्श समाज पद्य पाठ-- छोटा मेरा खेत, बगुलो के पंख वितान पाठ--- 3. अतीत में दबे पांव नाटक लेखन, फीचर लेखन,रचनात्मक लेखन	
December	15	गद्य, पद्य और वितान--- पुनरावृत्ति कार्य अपठित गद्यांश और पद्यांश,	
January	18	प्राक् बोर्ड परीक्षा नोट-- पूरे वर्ष का पाठ्यक्रम वार्षिक परीक्षा में सम्मिलित है।	

पाठ्यक्रम 2023–2024

कक्षा–द्वादश

संस्कृत

निर्धारित पुस्तकानि

- पाठ्यपुस्तकम् : भास्वती, द्वितीयः भागः – रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।
- व्याकरण सौरभम् : (संशोधित संस्करणम्) – रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।
- रचनानुवाद कौमुदी : (सहायक पुस्तकम्) – कपिलदेव द्विवेदी लिखितम्
- संस्कृत साहित्य परिचय : (सन्दर्भ पुस्तकम्) – रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।
- वेद परिजात (अतिरिक्त अध्ययनार्थम्) – रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।

पाठ्यक्रम का मासिक विभाजन–

अप्रैल (17) – पाठ्यपुस्तकात्–पाठः 1. 'अनुशासनम्' (सरलार्थम् पाठाभ्यास कार्यम्)। व्याकरणात् – सन्धि प्रकरणात् (स्वर, व्यञ्जन, विसर्ग)– भेदाः उदाहरणानि च। उपपद विभक्ति प्रयोगः। अनुच्छेदलेखनम् अभ्यास कार्यम्। संस्कतभाषायां अनुवादः।

मई (10) – पाठ्यपुस्तकात् – पाठः – 3 'मातुराज्ञा गरीयसी' (सरलार्थम्, पाठाभ्यास– कार्यम्) व्याकरणात् – पत्रलेखनम्, संस्कृत अनुवादम्, अपठितं गद्यांशं

जून (9) – व्याकरणात् – प्रत्यय प्रकरणात् – क्त, क्तवतु, शतृ, शानच्, तव्यत्, अनीयर, क्तिन्, मतुप्, इन्, ठक्, त्व, तल् प्रत्ययानां नियमाः उदाहरणानि वाक्य प्रयोगाः चः पत्रलेखननभ्यास कार्यम्, अनुच्छेद लेखनाभ्यासम्। लघुकथां सम्पूरयत अभ्यास कार्यम्। स्त्री प्रत्ययात्–टाप्, ङीप् प्रत्ययः।

जुलाई (20)– पाठ्यपुस्तकात्–पाठः – 4 ''प्रजानुरञ्जको नृपः'', पाठः 5 'द्वौवारिकस्य निष्ठा' (पाठयोः सरलार्थम् पाठाभ्यासकार्यम्)। व्याकरणात्–'समासः' (अव्ययीभाव, द्विगु, द्वन्दः, तत्पुरुष, कर्मधारय, बहुव्रीहि) समासस्य भेदाः नियमाः उदाहरणानि च। पंचवाक्येषु संस्कृते अनुच्छेद लेखनम्'
सामान्य संस्कृत परिचयः – संस्कृत कवीनां परिचयः –संस्कृत महाकाव्यस्य चम्पूकाव्यस्य, गद्यकाव्यस्य विशेषताः संस्कृते लिखत। नाट्यतत्वानाम् मुख्यविशेषतानां परिचयः।

अगस्त (21)– पाठ्यपुस्तकात् – पाठः 6 – 'सूक्ति सौरभम्' पाठः 7 'नैकनापि समंगता वसुमती' (पाठयोः सरलार्थम् अभ्यास–कार्यम्)। व्याकरणात् – कर्त्ता – क्रियान्वितिः अभ्यास–कार्यम्। व्याक्येषु विभक्तिनां प्रयोगः। पठितपाठान्तर्गते गद्यांशं, श्लोकांशं, नाट्यांशं पठित्वा प्रश्नान् उत्तरत, श्लोकानां अन्वये रिक्तस्थानानि पूरयत, उचित भावार्थचयनम्, पदानांमेलनम्।

सितम्बर (9)– पाठाधारितम् सन्धिः, प्रत्ययः, समासविग्रहः, उपपदविभक्तिनां प्रयोगः, कर्त्ताक्रियान्वितिः प्रयोगः, पदानांमेलनम्, प्रसंगानुसारं शुद्धं अर्थचयनम्। संस्कृत साहित्य परिचयात् पुनरावृति–कार्यम्'
(अर्द्धवार्षिकी परीक्षायाः शुभारम्भः)

अक्टूबर (17)– पाठ्यपुस्तकात् – पाठः 9 'मदालसा' (सरलार्थम् पाठाभ्यासकार्यम्) सामान्य संस्कृत साहित्य परिचयात् अभ्यास कार्यम्, अपठितं गद्यांशं

नवम्बर (14)– पाठ्यपुस्तकात् – पाठः 11 'कार्याकार्य'–व्यवस्थितिः' (पाठस्य सरलार्थम् पाठाभ्यासम्)
संस्कृत–साहित्य परिचयः'–संस्कृत महाकाव्यस्य, खण्डकाव्यस्य, संस्कृत–नाट्यस्य, साहित्य, गद्यकाव्यस्य, चम्पूकाव्यस्य, विशेषताः संस्कृते लिखत।
मंजूषा पदसहायताया रिक्तस्थानानि पूरयत अभ्यास कार्यम्।

दिसम्बर (15)– पाठ्यपुस्तकात्– अधोलिखितेषु टिप्पणयः लिखत–सूत्रधारः, नान्दी, विदूषकः, नायकः, नायिका, नेपथ्यम् इत्यादयः। (प्रारम्भिक जाँच परीक्षायाः शुभारम्भः)।

जनवरी (18)– द्रूतगत्या पुनरावृत्ति कार्यम्। प्राक्–बोर्ड परीक्षायाः शुभारम्भः।

नोट :– प्राकृ बोर्ड परीक्षायाः सम्पूर्ण पाठ्यक्रमः सम्मिलितः भविष्यति।

–इति शुभम्–

Class -XII **Subject : Mathematics**

TEXT BOOKS : Mathematics Part I and Part II- Text Book for Class XII (NCERT) REFRENCE BOOKS :

1. Exemplar (Maths) Problems Class XII(NCERT)
2. Mathematics Part I and II, Class XII R.D. Sharma, by Dhanpat Rai

LABORATORY MANUAL : Laboratory Manual Mathematics CBSE Class XII, Arihant Publication.

TERM-I

Months/W.D.	Topic to be taught	Activity/Value
April (17)	**Unit I: Relations and Functions** 1. Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. 2. Inverse Trigonometric Functions Definition, range, domain, principal value branch. **Unit II: Algebra** 1. Matrices Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non commutativety of multiplication of matrices and Invertible matrices (Here all matrices will have real entries).	
MAY (10)	2. Determinants Determinant of a square matrix (up to 3 x 3 matrices), Minors, co-factors and Applications of determinants in finding the area of a triangle. Determinants contd: Adjoint and inverse of a square matrix. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.	
JUNE (09)	1.Continuity and Differentiability Continuity and differentiability, derivative of composite functions, chain rule.	
JULY (20)	derivatives of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives. **Unit III: Calculus** 2. Applications of Derivatives Applications of derivatives: increasing/decreasing functions, tangents and normals, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations). **Unit V: Linear Programming** 1.Linear Programming Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, + graphical method of solution for problems in two variables, feasible and infeasible regions (bounded and unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).	

AUGUST (21)	3. Integrals Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them, Integrals contd. : Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals. 4. Applications of the Integrals Applications in finding the area under simple curves, especially lines, circles/ parabolas /ellipses (in standard form only), (the region should be clearly identifiable).	
SEPTEMBER (09)	5. Differential Equations Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: dy/dx + py = q, where p and q are functions of x or constants. **Revision for Half Yearly Examination.** **Half Yearly Examination.** **Discussion of Half Yearly question papers**	

TERM-II

Months/W.D	Topic to be taught	Maths Lab Activities
OCTOBER (17)	**Unit IV: Vectors and Three – Dimensional Geometry** 1. Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors) Position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors. 2. Three - dimensional Geometry Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Distance of a point from a plane	
NOVEMBER (14)	**Unit VI: Probability** 1. Probability Conditional probability, multiplication theorem on probability, independent events, total probability, Baye's theorem, Random variable and its probability distribution, **Revision for Pre-Board Examination. Revision for Pre-Board Examination.**	
DECEMBER (15)	**Revision for Pre-Board Examination.** **Pre-Board Examination 2023 – 24.** **Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers**	
JANUARY (18)	**Comprehensive Revision for Board Examination2024**	

****

Class -XII

Subject : Applied Mathematics (241)

TEXT BOOKS : Mathematics Part I and Part II- Text Book for Class XII (NCERT) REFRENCE BOOKS :

1. Exemplar (Maths) Problems Class XII(NCERT)
2. Mathematics Part I and II, Class XII R.D. Sharma, by Dhanpat Rai

LABORATORY MANUAL : Laboratory Manual Mathematics CBSE Class XII, Arihant Publication.

TERM-I

Months/W.D.	Topic to be taught	Activity/Value
April (17)	**UNIT-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS** Modulo Arithmetic ,Congruence Modulo **UNIT-2 ALGEBRA** Matrices and types of matrices ,Equality of matrices, Transpose of a matrix, Symmetric and Skew symmetric matrix ,Algebra of Matrices ,Determinants, Inverse of a matrix ,Solving system of simultaneous equations using matrix method, Cramer's rule	
MAY (10)	**UNIT-1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS** Alligation and Mixture, Numerical Problems, Boats and Streams (upstream and downstream), Pipes and Cisterns, Races and Games, Numerical Inequalities	
JUNE (09)	**UNIT- 3 CALCULUS** Higher Order Derivatives Application of Derivatives	
JULY (20)	**UNIT- 3 CALCULUS** Marginal Cost and Marginal Revenue using derivatives ,Increasing /Decreasing Functions, Maxima and Minima, Integration , Indefinite Integrals as family of curves ,Definite Integrals as area under the curve , Application of Integration	
AUGUST (21)	**Differential Equations and Modeling** Differential Equations ,Formulating and Solving Differential Equations ,Application of Differential Equations **Probability Distributions** Probability Distribution ,Mathematical Expectation ,Variance Binomial Distribution ,Poison Distribution ,Normal Distribution	
SEPTEMBER (09)	**INFERENTIAL STATISTICS** Population and Sample ,Parameter and Statistics and Statistical Interferences ,t-Test (one sample t-test and two independent groups t-test) **Revision for Half Yearly Examination.** **Half Yearly Examination.** **Discussion of Half Yearly question papers**	

TERM-II

Months/W.D	Topic to be taught	Maths Lab Activities
OCTOBER (17)	**UNIT – 6 INDEX NUMBERS AND TIME BASED DATA** Time Series ,Components of Time Series ,Time Series analysis for univariate data ,Secular Trend ,Methods of Measuring trend **UNIT - 7 FINANCIAL MATHEMATICS** Perpetuity, Sinking Funds ,Calculation of EMI ,Calculation of Returns, Nominal Rate of Return ,Compound Annual Growth Rate ,Linear method of Depreciation .	

NOVEMBER (14)	**UNIT - 7 FINANCIAL MATHEMATICS (Cont…..)** **UNIT - 8 LINEAR PROGRAMMING** Introduction and related terminology ,Mathematical formulation of Linear Programming Problem ,Different types of Linear Programming Problems ,Graphical method of solution for problems in two variables ,Feasible and Infeasible Regions Feasible and infeasible solutions, optimal feasible solution. **Revision for Pre-Board Examination. Revision for Pre-Board Examination.**	
DECEMBER (15)	**Revision for Pre-Board Examination.** **Pre-Board Examination 2023 – 24.** **Discussion of Pre – Board Question – Papers Discussion of CBSE Sample Papers**	
JANUARY (18)	**Comprehensive Revision for Board Examination2024**	

****

Syllabus (2023-24)

Class XII **Subject: Physics (042)** **Theory (70)**

Unit	Chapter Number & Chapter Name
Unit 1	**Electrostatics**
	Chapter–1: Electric Charges and Fields
	Chapter–2: Electrostatic Potential and Capacitance
Unit 2	**Current Electricity**
	Chapter–3: Current Electricity
Unit 3	**Magnetic Effects of Current and Magnetism**
	Chapter-4: Moving charge & Magnetism
	Chapter-5: Magnetism & Matter
Unit 4	**Electromagnetic Induction & Alternating Current**
	Chapter-6:Electromagnetic Induction
	Chapter-7:Alternating Current
Unit 5	**Electromagnetic Waves**
	Chapter-8: Electromagnetic Waves
Unit 6	**Optics**
	Chapter-9: Ray Optics & Optical Instruments
	Chapter-10: Wave Optics
Unit 7	**Dual Nature Radiations & Matter**
	Chapter-11: Dual Nature Radiations & Matter
Unit 8	**Atoms & Nuclei**
	Chapter-12: Atoms
	Chapter-13: Nuclei
Unit 9	**Electronic Devices**
	Chapter-14:Semiconductor,Electronic materials, Devices & Simple Circuits.

Month Wise Breakup of Syllabus

Month	Unit No.	Chapter No.	Chapter Details
April 2023 (17)	Unit 1	Chapter1	Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's law and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).
		Chapter2	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel.
May 2023 (06)	Unit 1 (continue)	Chapter 2	Electric polarisation, capacitors and capacitance, combination of capacitors in series and in the plates, energy stored in a capacitor.
	Unit 2	Chapter 3	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, Carbon resistors & Colour coding.
June 2023 (13)	Unit 2 (Continue)	Chapter 3	Series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, Metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell.
July2023 (23)	Unit 3	Chapter 4	Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields, Cyclotron. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.
		Chapter 5	Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets.

July2023	Unit 4	Chapter 6	Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.
August 2023 (16)	Unit 4 (continue)	Chapter 7	Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, power factor, wattless current.AC generator and Transformer.
	Unit 5	Chapter 8	Basic idea of displacement current, Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.
	Unit 6	Chapter 9	Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction and dispersion of light through a prism.
September2023 (12)	Unit 6 (continue)	Chapter 9	Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Revision & Half yearly Examination
October2023 (13)	Unit 6 (Continue)	Chapter 10	Wave optics: Wave front and Huygens's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum, resolving power of microscope and astronomical telescope, polarisation, plane polarised light, Brewster's law, uses of plane polarised light and Polaroids.
	Unit 7	Chapter 11	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de-Broglie relation, Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).
November 2023 (11)	Unit 8	Chapter 12	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.
	Unit 8	Chapter 13	Composition and size of nucleus, Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.
	Unit 9	Chapter 14	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell and Zener diode and their characteristics, Zener diode as a voltage regulator.
December2023 (11)	_____	_____	Revision & Pre-Board 1
January2024	_____	_____	Pre-Board 2 Board Practical Examination

Experiment-(30)

SECTION–A

1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
3. To verify the laws of combination (series) of resistances using a metre bridge.
4. To verify the laws of combination (parallel) of resistances using a metre bridge.
5. To determine resistance of a galvanometer by half-deflection method and to find its figure ofmerit.
6. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

SECTION–B

7. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
8. To find the focal length of a convex mirror, using a convex lens.
9. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and1/v.
10. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
11. To determine refractive index of a glass slab using a travelling microscope.
12. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.
13. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.

Activity

Section-A

1. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
2. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
3. To assemble the components of a given electrical circuit.
4. To study the variation in potential drop with length of a wire for a steady current.
5. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Section –B

1. To identify a diode, an LED, a transistor, an IC, a resistor and a capacitor from a mixed collection of such items.
2. To identify electronic component (e.g., diode, transistor or IC) is in working order.
3. To observe refraction and lateral deviation of a beam of light incident obliquely on a glassslab.
4. To observe polarization of light using two Polaroids
5. To observe diffraction of light due to a thin slit.
6. To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
7. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

Suggested Investigatory Projects

***

Class : XII **Subject : Chemistry**

Syllabus (2023-2024)

Monthly Syllabus Break-up (2023-2024)

Months	Month No. of Working Days	Chapters to be covered	Contents in detail	Experiment / Project / Activity
April	**17**	**Unit 1: Solutions** **Unit 2: ELECTROCHEMISTRY**	**Types of solutions**, Expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular measuring colligative properties, abnormal molecular mass. **Redox reactions**, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis(elementary idea), dry cell -electrolytic cells and Galvanic cells, lead accumulator, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, fuel cells.	
May	**06**	**Unit 3: CHEMICAL KINETICS**	**Rate of a reaction** (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst order and molecularity of a reaction, rate law and specific rate constant, integrated rate equation and half life (only for zero and first order reactions), collision theory (elementary idea, no mathematical treatment).	
June	**13**		Continue chemical kinetics	
July	**23**	**Unit 9: Haloalkanes and Haloarenes**	**Haloalkanes:** Nomenclature, nature of C -X bond, physical and chemical properties, mechanism of substitution reactions. Haloarenes: Nature of C -X bond, substitution reactions (Directive influence of halogen in mono-substituted compounds only) Uses and environmental effects of – trichlorome thane, tetrachloromethane, iodoform.	
August	**16**	**Unit 11: Aldehydes, Ketons and Carboxylic Acids**	**Aldehydes and Ketones:** Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophillic addition, reaction, reactivity of alpha hydrogen in aldehydes: uses. Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	

		Unit 12: Organic Compounds containing Nitrogen	**Amines:** Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Cyanides and Isocyanides - will be mentioned at relevant places in context. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.	
September	**12**		Continue Amines	
October	**13**	**Unit 7: D -and F -Block Elements**	**General introduction,** electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K2Cr2O7 and KMnO4. **Lanthanoids** - Electronic configuration, oxidation states and lanthanoid contraction. **Actinoids** - Electronic configuration, oxidation states.	
November	**11**	**Unit 8: Coordination Compounds** **Unit 13: Biomolecules**	**Coordination compounds** - Introduction, ligands, coordination number, colour, magneticproperties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, isomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system). **Carbohydrates -** Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), oligosaccharides (sucrose, lactose, maltose), importance. Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA	
December	**11**	**REVISION**		

CLASS - XII **Subject : Biology**

Syllabus for the whole year (SESSION-2023-2024)

Unit 1 Reproduction (16 marks)

Chapter- 2) Sexual Reproduction in flowering plant
3) Human Reproduction
4) Reproductive Health

Unit 2 Genetics & Evolution (20 marks)

Chapter- 5) Principles of Inheritance and variation
6) Molecular Basis of Inheritance
7) Evolution

Unit 3 Biology in Human welfare (12 marks)

Chapter- 8) Human Health and Disease
10) Microbes in Human welfare

Unit 4 Biotechnology (12 marks)

Chapter- 11) Biotechnology: Principles & Process
12) Biotechnology and its application.

Unit 5 Ecology (10 marks)

Chapter- 13) Organism and population
14) Ecosystem
15) Biodiversity and conservation

Month	Working Days	Chapter/Topic	Content	Activity/Projects
April	**17**	5.Principles of Inheritance and Variation. 6.Molecular Basis of Inheritance	**Principles of Inheritance and Variation** : Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co- dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - 9 in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans -thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes. **Molecular Basis of Inheritance:** Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting.	**A list of expement – Sl.No 1 to 3** **Study pollen germination on a slide.** **Study of pH , texture , moisture and water holding capacity of soil.** **Study of pH , clarity and living organisms in different water sample.**
May	**10**	6.Molecular Basis of Inheritance 2. Sexual Reproduction in Flowering Plants	Central dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; genome and human and rice genome projects; DNA fingerprinting. **Sexual Reproduction in Flowering Plants**: Flower structure; development of male and female gametophytes;	**A list of expement – Sl.No 7** **Temporary mount of onion root tip to study mitosis.**

				A list of expement – Sl.No 8 Study action of salivary amylase on a starch, effect of three different temperature on the activity of salivary amylase on starch.
June	**09**	2. Sexual Reproduction in Flowering Plants	pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; Post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modesapomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.	
July	**20**	**3.** Human Reproduction. 4. Reproductive Health. **7.** Evolution	**Human Reproduction:** Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea). **Reproductive Health:** Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness) **Evolution:** Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution.	**B Study/ observation (Spotting)** **Sl.No 1 to 5** **Study adaptation of flowers adapted to pollination by different agencies.** **Study of pollen germination on stigma through permanent slide.** **Study of T.S. of testis and T.S. of ovary of mammals through permanent slide.** **Study of T.S. of blastula of frog through permanent slide.**
August	**21**	8. Human Health and Diseases	**Human Health and Diseases**: Pathogens; parasites causing human diseases (malaria, dengue, chickengunia, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.	**B Study/ observation (Spotting)** **Sl.No 6 to 9** **Study of Mendelian inheritance using seeds of different colours/size of any plants , law of**

		10. Microbes in Human Welfare. 11. Biotechnology: Principles & Process	**Microbes in Human Welfare:** In household food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use. **Biotechnology - Principles and processes**: Genetic Engineering (Recombinant DNA Technology).	**independent assortment.** **Study of pedigree charts of genetic traits.** **To perform emasculation , bagging and tagging for controlled pollination.** **To identify common human pathogen – Ascaris, Entamoeba ,Plasmodium,Ringworm through permanent slide /specimens.**
September	**09**	12. Biotechnology and its application.	**Biotechnology and its Application:** Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, bio piracy and patents.	**B Study/ observation (Spotting)** **Sl.No 10 to 11** **Study of plant and animals found in xeric condition. Study of plant and animals found in aquatic conditions.**
October	**17**	13.Organisms and Populations 14. Ecosystem	**Organisms and Populations:** Organisms and environment: Habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution. **Ecosystem:** Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy; nutrient cycles (carbon and phosphorous); ecological succession; ecological services - carbon fixation, pollination, seed dispersal, oxygen release (in brief).	**A list of expement – Sl.No4 to 6** **Study the presence of SPM in air, study the plant population density , plant population frequency by quadrat method.**
November	**14**	15. Biodiversity and its Conservation REVISION & PRE BOARD	**Biodiversity and Conservation**: Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, national parks, sanctuaries and Ramsar sites.	**A List of experiment S.No. 9 Isolate DNA from available plant material such as spinach , green [pea seeds , papaya , etc.**
December	**15**		**Pre – Board**	
January	**18**			
February	**11**			

Subject: Accountancy (055)

Session 2023-24

Class : XII **SYLLABUS**

Unit	Topics	Marks
	Part A : Accounting For Partnership Firms and Companies	
1.	Accounting for Partnership Firms	36
2.	Accounting for Companies	24
	Total	**60**
	Part B: Financial Statement Analysis	
3.	Analysis of Financial Statements	12
4.	Cash Flow Statement (As-3 Revised) Only indirect Method	8
	Total	**20**
	Part C: Project Work	
	Project File	12
	Viva- voce	8
	Total	**20**

Month	No. of Days	Topics in Detail
April 2023	**17**	**Unit – I Accounting for Partnership Firms** 1. Fundamentals of Partnership . 2. Nature and Valuation of goodwill
May	**10**	3. Change in profit sharing Ratio among Existing partners. 4. Admission of a New partner.
June	**9**	Admission of a New partner Cont..
July	**20**	**Unit II Accounting for Companies**. 1. Accounting for Share capital **Unit III Analysis of Financial Statement**s 1. Financial statements of a Company.
August	**21**	2. Analysis of financial statement 3. Accounting Ratios.
September	**9**	**Revision and Half Yearly Examination 2023 – 24**
October	**17**	1. Accounting for Debentures. 2. Accounting for partnership firms: (i) Retirement of a partner
November	**14**	**(ii)** Death of a partner **(iii)** Dissolution of Partnership firm. Analysis of Financial Statements **(i)** Tools for analysis of financial assessment Comparative statements, common size statements
December	**15**	**Unit IV Cash flow Statement AS – 3 (Revised)** 1. Cash Flow statement **Revision and Pre – Board 2023 – 24**
January-2024	**18**	**Project Work and Revision**
February	**11**	**CBSE Practical Examination**

****

Syllabus

Class: XII **Subject: BUSINESS STUDIES (Code No.054)**

(Session 2023-24)

Units	Topics	Marks
	Part A : Principles and functions of Management	
1	Nature and Significance of Management	16
2	Principles of Management	
3	Business Environment	
4	Planning	14
5	Organising	
6	Staffing	20
7	Directing	
8	Controlling	
	Total	**50**
	Part B: Business Finance and Marketing	
9	Financial Management	15
10	Financial Markets	
11	Marketing Management	15
12	Consumer Protection	
	Total	**30**
	Part C: Project Work	**20**

Month	No. of Days	Topics in Detail
April 2023	**17**	Unit: 1 Nature and Significance of Management
May	**10**	Unit:2 Principles of Management
June	**09**	Unit:3 Business Environment
July	**20**	Unit: 4 Planning Unit: 5 Organising
August	**21**	Unit: 9 Financial Management Unit: 10 Financial Markets
September	**09**	**Revision and Half Yearly Examination 2023 – 25**
October	**17**	Unit:11 Marketing Management Unit: 6 Staffing
November	**14**	Unit: 6 Staffing (Cont…) Unit: 7 Directing
December	**15**	Unit:8 Controlling Unit: 12 Consumer Protection **Revision and Pre – Board 2023 – 24**
January 2024	**18**	**Project Work and Revision**
February	**11**	**CBSE Practical Examination /**

Subject : Computer Science (Code : 083)

Class : XII Session : (2023-24)

Month	No. of Working Days	Chapters/Topic to be covered	Activity/Practical
Apr	17	**Revision of Python topics covered in class XI** **i)Functions:** types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) **Exception Handling:** Introduction, Handling exceptions using try-except-finally blocks	Program related to function, Passing string, list, dictionary to function. Program to find factorial using recursion Program to illustrate handling of type exception in Python
May	10	**Database concepts**: introduction to database concepts and its need **Relational data model**: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key,primary key, alternate key, foreign key) **Structured Query Language (SQL):** introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause	To create table with primary key constraints. SQL query using create, select , update, where, like, order by, group by commands.
Jun	09	joins: Cartesian product on two tables, equi-join and natural join	Various SQL Queries using two tables.
July	20	**Interface of python with an SQL database**: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications **Data File Handling** : Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths **Text file**: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of datain a text file	Program to connect MySQL with datafile Write a program to Create Text file, Appending a data to Text file, updating data into Text file, Accessing data from Text file

Aug	21	**Binary file**: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file **CSV file**: import csv module, open / close csv file, write into a csv file using csv.writerow() and readfrom a csv file using csv.reader( ) **Python libraries: creating python libraries**	Write a program to Create Binary file, Appending a data to Binary file, updating data into Binary file, Accessing data from Binary file Program to Importing data from csv file
Sep	09	Idea of efficiency: number of comparisons in Best, Worst and Average case for linear search	
Oct	17	Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	Program to perform operations on stack and queue
Nov	14	**Computer Network** **Evolution of networking**: introduction to computer networks, evolution of networking (ARPANET,NSFNET, INTERNET) **Data communication terminologies:** concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuitswitching, Packet switching) **Transmission media**: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) **Network devices** (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) **Network topologies** and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) **Network protocol**: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP, wireless/mobilecommunication protocol such as GSM, GPRS and WLL **Introduction to web services**: WWW, Hyper Text Markup Language (HTML), Extensible MarkupLanguage (XML), domain names, URL, website, web browser, web servers, web hosting	Project work
Dec	15	**Revision & Project Work (Contd...)**	
Jan			
Feb			

Subject: Informatics Practices (Code: 065)
2023-24

Month	No. of Working days	Chapter Name	Chapter/ Topic to be covered	Experiment/ Project/ Activity	Test/ Sem	Prescribed book	publication
Apr	17	**Data Handling using Pandas**	Introduction to Python libraries- Pandas, Matplotlib Data structures in Pandas - Series and data frames **Series:** Creation of series from ndarray, dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing. **Data Frames:** creation of data frames fromdictionary of series, list of dictionaries.	Write a python code to create a series using float numbers. Write a python code to create a series using dictionary and ndarray. Write a python code to create a Data Frame using list and dictionary. Write a python code to locate 3 largest value in a Data Frame. Write a python code to use head() and tail() function in different ways.		i) Informatics Practices (A text book for class XII) ii) Informatics Practices with Python by Sumita Arora iii) Informatics Practices with Python by Preeti Arora	NCERT Dhanpat Rai Publication Sultan Chand & Sons (P)Ltd
May	10	**Data Handling using Pandas**	**Data Frames:** creation of data frames fromtext/CSV files, display and iteration. Operations on rows and columns: add add (insert /append), select, delete (drop column and row). Rename, Head and Tail functions,indexing using labels, Boolean indexing of data frames.				
Jun	09	**Data Handling using Pandas**	Importing/Exporting Data between CSV files and Data Frames.	Write a python code to import and export data between pandas and .csv file.			
July	20	**Data Visualization**	Purpose of plotting, drawing and saving of plots using Matplotlib (line plot, bar graph).Histogram	Write python code to plot various types of chart using matplotlib.			

			Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots.				
Aug	21	**Database Query using SQL**	Revision of database concepts and SQL commands covered in class XI **Math functions:** POWER (), ROUND (), MOD (). **Text functions:** UCASE ()/UPPER (), LCASE ()/ LOWER (), MID()/SUBSTRING () /SUBSTR (), LENGTH (),LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM(). **Date Functions:** NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().	Write SQL queries using mathematical, date, text, and aggregate functions. SQL Query using group by, having and Order by. Various SQL queries of relations, union, intersections, minus, joining between two tables.			
Sep	09		**Aggregate Functions:** MAX (), MIN(), AVG(), SUM(), COUNT (); using COUNT (*).Querying and manipulating data using Group by, Having, Order by. Working with two tables using equi-join **Revision of Half Yearly portion**		**Half yearly Exam**		

Oct	17	**Introduction to Computer Networks**	Introduction to networks, **Types of network:** LAN, MAN, WAN Network Devices: modem, hub, switch, repeater, router, gateway, Network **Topologies:** Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. **Website:** Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. **Web Browsers:** Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Project work:			
Nov	14	**Societal Impacts**	Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. **E-waste:** hazards and management. Awareness about health concerns related to the usage of technology.	Project work:			
Dec	15		Revision & Project	Project work:	**Pre-Board 1**		
Jan							
Feb							

****

CLASS:- XII **SUBJECT :- HISTORY**

PRESCRIBED BOOKS

Themes in Indian History Part-I(Units 1 – 4) NCERT

Themes in Indian History Part-II(Units 5 – 9) NCERT

Themes in Indian History Part-III(Units 10 – 15) NCERT

Month	No. of Working Days	Chapters to be covered	Contents	Activity/Project
April	17	**Part 1** **Ch1.Bricks,Beads and Bones**	*Early Urban Centres – Harappa and Mohenjodaro as economic and Social Institutions *Archaeological Report on a major site *Seals, script, weights *Ancient authority	*Develop a project on the domestic architecture of Mohenjodaro. *On the given political map of India, locate and label the following Harappan sites. i. Harappa ii. Lothal iii. Mohenjodaro iv. Nageshwar v. Banwali vi. Rakhigarhi vii. Kalibangan viii. Kot Diji
		Ch2. Kings, Farmers and Towns	*The earliest States *The sixteen Mahajanpadas *Finding out about the Mauryas *New notions of Kingship *A changing Countryside *Towns and Trade *Historical evidence from inscriptions	*On the given political outline map of India locate and label the sixteen Mahajanpadas. *Exchanges were facilitated by the introduction of coinage. Develop a project on contemporary world.
May	10	**Ch 3: Kingship, Caste and Class**	*The critical edition of the Mahabharata *Kingship and Marriage *Social differences within and beyond	*Discuss the different stages through which Mahabharata was compiled in the 20th century.

		Ch 4. Thinkers, Beliefs and Buildings	the framework of caste *Language and content *A glimpse of Sanchi *The Backgrounds-Sacrifices and debates *Beyond Worldly pleasures – *The message of Mahavira *The teachings of Buddha *Discovering Stupas-The fate of Amravati and Sanchi *New Religious traditions	**Map Skill-** On an outline world map, mark the areas to which Buddhism spread.
June	09	**Part – II** **Ch 5. Through the Eyes of Travellers**	*Al-Biruni and The Kitab-ul-Hind *Ibn Batuta's Rihla *Francois Bernier:A Doctor with a difference *Making sense of an Alien World *Women-Slaves, Sati and Labourers	*Find any one the travellers mentioned in the chapter, find out more about his life and writings. For any one of the travellers, noting in particular how he described society, and comparing these descriptions with the excerpts included in the chapter.
July	20	**Ch 6. Bhakti-Sufi Traditions**	*A mosaic of Religious Beliefs and practices *Poems and Prayer: Early traditions of Bhakti *The virashaiva Tradition in Karnataka *Religious ferment in North India *New strands in the Fabric Islamic traditions *The growth of Sufism *New devotional paths in Northern India	*Choose any two of the religious teachers/thinkers/saints mentioned in this chapter and find out more about their lives and teachings. *On an outline map of India, plot three major Sufi shrines and three places associated with temples (one each of a form of Vishnu, Shiva and the goddess).

		Ch 7. An Imperial Capital : Vijayanagara	*The discovery of Hampi *Rayas, Nayakas and Sultans *Vijayanagara-The Capital and its Environs *The Royal Centre *The sacred centre *Plotting Palaces, Temples and Bazaars	*On the map of India, mark and locate the 16^{th}-17^{th} century cities of Southern India.
Aug	21	**Ch 8. Peasants, Zamindars And the State**	*Peasants and agricultural Production *The village community *Women in agrarian society *Forest and tribes *The Zamindars *Land revenue system *The Mughals and their Empire	*Explain the various sources to know about the rural society during the Mughal Period.
Sep	09	**Revision & Half Yearly Examination**		
Oct	17	**Part – III** **Ch 10.Colonialism and the Countryside : Exploring Official Archives** **Ch.11 Rebels and the Raj**	*Bengal and the Zamindars *The Hoe and the Plough *A Revolt in the Countryside the Bombay Deccan *The Deccan Riots Commission *Pattern of the Rebellion *Awadh in Revolt *What the Rebels wanted? *Repression *Images of the Revolt	On an outline map of the subcontinent, mark out the areas described in this chapter. Find out whether there were other areas where the Permanent Settlement and the Ryotwari System. *On an outline political map of India – *Mark the extent of British Empire in 1856-57 *The centres of Revolt of 1857.

Nov	14	**Ch.13 Mahatma Gandhi and the Nationalist Movement** **Ch.15 Framing the Constitution**	*A leader announces himself *The making and unmaking of Non-cooperation *The Salt Satyagraha- A Case Study *Quit India *The last Heroic days *Knowing Gandhi *A tumultuous time *The making of the Constituent Assembly *The vision of the Constitution *Defining Rights *The powers of the State	*On an outline political map of India- *Mark and label the sessions of the Indian National Congress *Important centres of the National Movement(1885-1947).
Dec	15	**Ch.15 Framing the Constitution Continued……** **Revision& Pre – Board Examination**	*The language of the Nation *A plea for Hindi *The fear of domination	*Compare the Constitutions of America, France or South Africa with the Indian Constitution, focusing on any two of themes: Secularism, Minority Rights, Relation with the Centre and the States.

Class 12 **Subject: Geography**

PRESCRIBED BOOK- 1-FUNDAMENTALS OFHUMAN GEOGRAPHY [NCERT]
2-INDIA-PEOPLE AND ECONOMY [NCERT]
3-PRACTICAL WORK IN GEOGRAPHY [PART 2]

MONTH	No. of Working days	BOOK -1	BOOK -2
APRIL	**17**	**UNIT-1** **CH-1** HUMAN GEOGRAPHY- NATURE AND SCOPE AND COMPOSITION **UNIT- 2** PEOPLE **CH-2** THE WORLD POPULATION- DISTRIBUTION , DENSITY AND GROWTH	**UNIT-1** **CH-1** POPULATION: DISTRIBUTION, DENSITY AND GROWTH, **CH-2** MIGRATION: TYPES, CAUSES, AND CONSEQUENCES
MAY	**10**	**UNIT- 2** **CH-3** POPULATION COMPOSITION **CH-4** HUMAN DEVELOPMENT	**UNIT-1** **CH-3** HUMAN DEVELOPMENT **UNIT-2** **CH-4**-HUMAN SETTLEMENTS
JUNE	**9**	**CH- 4** HUMAN DEVELOPMENT (CONT.)	**CH- 4** HUMAN SETTLEMENT (CONT.)
JULY	**20**	**UNIT- 3** PEOPLE **CH-5** PRIMARY ACTIVITIES **CH-6** SECONDARY ACTIVITIES	**UNIT-3** **CH-5** LAND RESOURCES AND AGRICULTURE **CH-6** WATER RESOURCES **CH-7** MINERALS AND ENERGY RESOURCES
AUGUST	**21**	**UNIT- 3** **CH-7** TERTIARY AND QUARTERNARY ACTIVITIES	**UNIT-3** **CH-8** MANUFACTURING INDUSTRIES **CH-9** PLANNING AND SUSTAINBLE DEVELOPMENT IN INDIAN CONTEXT
SEPTEMBER	**9**	**REVISION** **MAPS AND DIAGRAMSPRACTICALS**	**TA 1**
OCTOBER	**17**	**UNIT- 3** **CH-8** TRANSPORT AND COMMUNICATION	**UNIT-4** **CH-10** TRANSPORTAND,COMMUNICATION **CH-11** INTERNATIONAL TRADE **UNIT-5** **CH-12**-GEOGRAPHYCAL PERSPECTIVE ONSELECTED ISSUES AND PROBLEMS
NOVEMBER	**14**	**CH-9** INTERNATIONL TRADE **UNIT- 4** **CH-10** HUMAN SETTLEMENTS	**REVISION**
DECEMBER	**15**	**REVISION**	**REVISION**
JANUARY	**18**	**PRE- BOARD**	**PRE- BOARD**
FEBRUARY	**11**		

****

Class - XII **Subject: Economics**
Session 2023-24

Theory: 80 Marks **3Hours**
Project: 20 Marks

Units	TOPICS	Marks
Part A	**Introductory Macroeconomics**	
	National Income and Related Aggregates	10
	Money and Banking	06
	Determination of Income and Employment	12
	Government Budget and the Economy	06
	Balance of Payments	06
		40
Part B	**Indian Economic Development**	
	Development Experience (1947-90) and Economic Reforms since 1991	12
	Current Challenges facing Indian Economy	20
	Development Experience of India – A Comparison with Neighbours.	08
	Theory Paper (40+40 = 80 Marks)	**40**
Part C	**Project Work**	**20**

MONTH WISE BREAKUP OF SYLLABUS

Month	No. W.D	Chapter to be covered	Activity /Project	Test/ Sem.	Prescribed Book	Publication
April	17	Macro-Unit 1: **Ch. Some Basic concepts of Macroeconomics** What is Macroeconomics? Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation. **Ch. National Income & Related Aggregate** Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at market price, at factor cost; Real and Nominal GDP. GDP and Welfare. **Ch. Methods of calculating national Income** (Circular flow of income (two sector model); Methods of calculating National Income – Value Added or Product method, Expenditure method, Income method.)			NCERT Text Book Part-A & Part-B (XII)	NCERT

May.	**10**	**Ch. Methods of calculating national Income**				
June	**09**	**Unit 6: Development Experience (1947-90) and Economic Reforms since 1991** **Ch. Indian Economy on the Eve of Independence.** A brief introduction of the state of Indian economy on the eve of independence. **Ch. Indian Economy 1950-1990** Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role & importance) and foreign trade.			Note: Latest Edition of Text Book should be use.	
July.	**20**	**Macro Unit – 2** **Ch. Money & Supply of Money** Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks. **Ch. Banking, Commercial Bank and Central Bank.** Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement. **Macro Unit – 3** **Ch. Aggregate Demand and Its Components.** Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). **Ch. Short Run Equillibrium Output.** Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment.				
August	**21**	**Ch. Problem of Deficient Demand & Excess Demand** Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.				

		Ch. Economic Reforms Since 1991 Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST. **Unit 7: Current Challenges facing the Indian Economy** Ch. Human Capital formation How people become resource, Role of human capital in economic development.Growth of education sector in India..				
September	**09**	**Ch. Rural Development:** Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming. **Revision for Half Yearly Examination.**		Half yearly Examination		
October.	**17**	**Unit – 4 Govt. Budget and the Economy** Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure. Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning. **Unit – 7 Ch.Employment** Growth and changes in work force participation rate in formal and informal sectors; problems and policies **Macro Unit – 5** **Ch. Balance of Payment.** Balance of payments account - meaning and components; balance of payments surplus and deficit. **Ch. Foreign Exchange Rate** meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market. Merits and demerits of flexible and fixed exchange rate. Managed floating exchange rate system.				
November	**14**	**Unit – 7** **Ch. Environment and Sustainable Development** Meaning, Effects of				

		Economic Development on Resources and Environment, including global warming. **Unit–8.Development Experiences of India** A comparison with neighbours India and Pakistan India and China Issues: economic growth, population,sectoral development and other Human Development Indicators.				
December.	**15**	**Revision & Project Work**				
January	**18**	**Pre-Board**				

CLASS:- XII **SUBJECT :- POLITICAL SCIENCE**

PRESCRIBED BOOKS:

PART-A : CONTEMPORARY WORLD POLITICS(NCERT)

PART-B : POLITICS IN INDIA SINCE INDEPENDENCE (NCERT)

Month	No. of Working Days	Chapters to be covered	Contents	Activity/Project
April	17	***Part –A CONTEMPORARY WORLD POLITICS*** **Ch1.The Cold War Era** ***(Chapter omitted)*** **Ch2. The end of Bipolarity** ***Ch 3. US Hegemony in the World Politics (Chapter omitted)*** **Ch 4. Alternative Centres of Power**	*The Soviet System *Gorbachev and Disintegration *Consequences of the Disintegration *Shock Therapy in Post-Communist Regimes *Consequences of Shock Therapy *Tensions and Conflicts *India and Post-Communist Countries *European Union(EU) *Association of South East Asian Nation (ASEAN) *The Rise of Chinese Economy *India China Relation	*Write an essay for or against the following proposition. "With the disintegration of the Second World , India should change its foreign policy and focus more on friendship with the US rather than with traditional friends like Russia" *Assess the role of ASEAN as an Economic Association
May	10	**Ch 5. Contemporary South Asia**	Bangladesh *Monarchy & Democracy in Nepal *India-Pakistan Conflicts *India and its other neighbours *Peace and cooperation	*Prepare a timeline on Pakistan – 20 years of Turmoil

June	09	**Ch 6. International Organisations** **Ch 7. Security in the Contemporary World**	*Why International Organisation? *Evolution of the UN *Reform of the UN after the Cold War *Reform of Structures and Processes *Jurisdiction of the UN *India and the UN Reforms *UN's significant Agencies *What is Security? *Traditional Notions:External& Internal *Traditional Security and Cooperation *Non-Traditional Notions *New sources of threats *Cooperative Security *India's Security strategy	*Prepare a list of UN's significant Agencies. *Prepare a Time-Line on UN Secretaries General *Present a comparative analysis of Indian expenditure on Traditional and Non-Traditional Security.
July	20	**Ch 8. Environment and the Natural Resources**	*Environmental Concerns in Global Politics *The Protection of Global Commons *Common but differentiated Responsibilities *Common Property Resources *India's Stand on Environmental Issues *Environmental Movements : One or many? *Resource Geopolitics *The Indigenous peoples and their Rights	*Prepare a report on major environmental concerns in global politics and India's stand on environmental issues discussed at the International level

		Ch 9. Globalisation	*The concept of Globalisation *Causes of Globalisation *Political, Economic and cultural consequences *India and Globalisation *Resistance to Globalisation	*Prepare a project showing Advantages and Disadvantages of Globalisation
August	21	**Part – B Politics in India Since Independence** **Ch 1.Challenges of Nation Building** ***Ch 2. Era of One Party Dominance*** **Ch.3 Politics of Planned Development**	*Challenges for the New Nations *Partition: Displacement and Rehabilitation *Integration of Princely States *Reorganisation of States *Ideas of Development *The Early Initiatives *People vs Private Sector *The Green Revolution *Later Developments	*Prepare a chart on creation of New States in India with Time-Line *Evaluate the benefits of Green Revolution
September	09	**Revision & Half Yearly Examination**		
October	16	**Ch 4. India's External Relations** **Ch 5. Challenges to the Restoration of the Congress system** **Ch 6 The Crisis of Democratic Order**	*International context *The policy of Non-Alignment *Peace and conflict with China *Wars and peace with Pakistan *Bangladesh war, 1971 *India's Nuclear Policy *Background to Emergency *Declaration of Emergency	*Why did India declare the policy of Non-Alignment? Describe the policy the principles and policy of Non-Alignment *Examine the consequences of Emergency imposed in 1995

			*Controversies regarding Emergency *Politics after Emergency	and prepare a report about the withdrawal of rights during Emergency
		Ch 7. Rise of Popular Movements	*Nature of Popular Movements *Dalit Panthers *Bharatiya Kisan Union *Anti-Arrack Movement *Narmada Bachao Andolan *Lessons from popular Movements	*Prepare collage on different kinds of popular movements showing their impact on the decision of the Government
November	14	**Ch.8 Regional Aspirations**	*Region and the Nation *Jammu and Kashmir *Punjab *The North-East *Accommodation and National Integration	* On an outline map of India, mark seven states referred to as 'Seven Sisters'
		Ch.9 Recent Developments in Indian Politics	*Context of the 1990s *Era of Coalitions *Political Rise of Other Backward Classes(OBCs) *Communalism, Secularism, Democracy *Emergence of a New Consensus *Coalition Government	*On an outline map of India mark the States where NDA is in rule and the States where UPA is in rule.
December	15	**Revision & Pre – Board Examination**		

Syllabus

Class-XII **Subject: Physical Education) – 2023-24**

Month	Working Days	Chapter/Unit	Contents /Sub Topic In Details	Experiment / Project
April	**17**	**Unit-1: Management of Sporting Event**	1.1. Functions of Sports Events Management (Planning, Oarganising, Staffing, Directing & Controlling) 1.2. Various Committees & its Responsibilities (Pre, During & post) 1.3. Fixtures and their Procedure – Knock-Out (Bye & Seeding) & League (Staircase, Cyclic and Tabular Method) and Combination Tournaments 1.4. Intramural & Extramural – Meaning, Objectives & It's Significance 1.5. Community Sports Program (Sports Day,Health Run, Run for Fun, Run for Specific Cause & Run for Unity)	**Practical - 1:** Fitness tests administration (SAI Khelo India Test)
		Unit-2 : Children & women in Sports	2.1. Exercise Guidelines of WHO for different age groups 2.2. Common Postural Deformities and their respective Corrective Measures – Spinal curvature (Kyphosis ,Lordosis & Scoliosis) Knock Knees, Bow Legs, Flat Foot, Round Shoulders	
May	**10**	**Unit-2 : Children & women in Sports**	2.3. Women's participation in Sports – Physical, Psychological and Social benefits 2.4. Special consideration (Menarche & Menstrual Dysfunction) 2.5. Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)	
June	**09**	**Unit-3 : Yoga as Preventive measures for Lifestyle Diseases**	3.1. **Obesity:** Procedure,Benefits & Contraindications for Tadasana, Katichakrasana, Pawanmuktasana, Matsayasana, Halasana, Paschimottasana, Dhanurasana, Ushtrasana, Suryabedhan Pranayama 3.2. **Diabetes:** Procedure, Benefits & contraindications for Katichakrasana, Pawanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-Vajrasana, Paschimottasana, Ardh-Matsyendrasana, Mandukasana, Yogmudra, Ushtrasana, Kapalabhati , Gomukasana, 3.3. **Asthma:** Procedure, Benefits & contraindications for Tadasana, Urdhwahastottasana, Uttan Mandukasana, Bhujangasana, Dhanurasana, Ushtrasana,Vakrasana, Kapalabhati, Gomukhasana, Matsyasana, Anulom-Vilom 3.4. **Hypertension:** Procedure, Benefits & contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardh Halasana, Sarla Matyasana, Gomukhasana, Uttan Mandukasana, Vakrasana, Bhujangasana, Makrasana, Shavasana, Nadi-Shodhanapranayama, Sitilipranayama 3.5. **Back Pain and Arthritis:** Procedure, Benefits & contraindications for Tadasana, Urdhwahastottasana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Bhujangasana, Sarala Matsyendrasana, Gomukhasana, Bhadrasana, Makrasana, Nadi-Shodhanapranayama	**Practical : 2** Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
July	**20**	**Unit : 4 Physical Education & Sports for CWSN (Children With Special Needs – Divyang)**	4.1. Organizations promoting Disabililty Sports (Special Olympics. Paralympics, Deaflympics). 4.2. Concept of classification and Divisioning in sports 4.3. Concept of inclusion in sports, it's need and implementation. 4.4. Advantage of Physical Activities for children with special needs 4.5. Strategies to make Physical Activities assessable for children with special need	

July	**20**	**Unit : 5** **Sports & Nutrition**	5.1. Concept of balance diet and nutrition 5.2. Macro and Micro Nutrients:Food Sources & functions 5.3. Nutritive & Non-Nutritive Components of Diet 5.4. Eating For Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance and Food Myths 5.5. Importance of Diet in Sports-Pre, During and Post competition requirements	
August	**21**	**Unit: 6 Test & Measurement in Sports**	6.1. Fitness Test – SAI Khelo India Fitness Test in School : Age group 5-8 yrs. / class 1-3 : BMI, Flamingo Balance Test, Plate Tapping Test ,Age group 9-18yrs. / class 4-12 : BMI, 50 mt. Speed Test, 600 mt. Run/Walk, Sit & Reach Flexibility Test, Strength Test (Abdominal Partial Cur- Up, Push- Ups for Boys, Modified Push - Ups for Girls) 6.2. Measurement of Cardio-Vascular Fitness-Harvard Step Test - Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min. after Exercise 6.3. Computing Basal Metabolic Rate (BMR) 6.4. Rikli & Jones - Senior Citizen Fitness Test 1.Chair Stand Test for lower body strength 2. Arm Curl Test for upper body strength 3. Chair Sit & Reach Test for lower body flexibility 4. Back Scratch Test for upper body flexibility 5. Eight Foot Up & Go Test for agility 6. Six Minute Walk Test for Aerobic Endurance 6.5. Johnsen - Methney Test of Motor Educability (Front Roll, Roll, Jumping, Half-Turn, Jumping Full-Turn)	.
September	**09**	**Unit: 7** **Physiology & Injury in Sports**	7.1. Physiological factor determining component of Physical Fitness 7.2. Effect of exercise on Muscular System 7.3. Effect of exercise on Cardio Respiratory System 7.4. Physiological changes due to aging 7.5. Sports injuries: Classification (Soft Tissue Injuries: Abrasion, Contusion, Laceration, Incision, Sprain & Strain ; Bone & Joint Injuries : Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted.)	
HALF YEARLY EXAMINATION				
October	**17**	**Unit : 8** **Biomechanics & Sports**	8.1. Newton's Law of Motion & its application in sports 8.2. Type of Lever and their application in sports 8.3. Equilibrium- Dynamic & Static and Centre of Gravity and its application in sports 8.4. Friction & Sports. 8.5. Projectile in Sports.	**Practical : 3** Anyone one IOA recognized Sport/ Game of choice. Labelled diagram of Field/Court & Equipment. Also, mention its Rules, Terminologies & Skills.
		Unit: 9 **Psychology & Sports**	9.1. Personality; its definition & types (Jung Classification & Big Five Theory) 9.2. Motivation, its type & techniques 9.3. Exercise Adherence : Reasons, Benefits & Strategies for Enhancing it	
November	**14**	**Unit: 9** **Psychology &Sports**	9.4. Meaning, Concept & Types of Aggressions in Sports 9.5. Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self Talk, Goal Setting	
		Unit: 10 **Training in Sports**	10.1. Concept of Talent Identification and Talent Development in Sports 10.2. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle 10.3. Types & Method to Develop- Strength, Endurance and Speed 10.4. Types & Method to Develop – Flexibility and Coordinative Ability 10.5. Circuit Training - Introduction & its importance	
December	**15**	**Revision & Pre - Board**		
January	**18**	**REVISION**		

PRACTICAL (Max.Marks - 30)

Physical Fitness Test : SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)*
Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of Choice)**
Yogic Practices
Record File ***
Viva Voce (Health/ Games & Sports/ Yoga)

- *Test for CWSN (any 4 items out of 27 items. One item from each component : Aerobic Function, Body Composition, Muscular strength & Endurance, Range of Motion or Flexibility)
- **CWSN (Children With Special Needs - Divyang): Bocce/Boccia , Sitting Volleyball, Wheel Chair,Basketball, Unified Badminton, Unified Basketball, Unified Football, Blind Cricket, Wheel Chair,Races and Throws, or any other, Sport/Game of choice.
- **Children with Special Needs can also opt any one Sport/Game from the list as alternative to Yogic Practices. However, the Sport/Game must be different from Test- 'Proficiency in Games and Sports'.

***Record File shall include:**

Practical – 1 : Fitness tests administration. (SAI Khelo India Test)

Practical – 2 : Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

Practical – 3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field/Court & Equipment. Also, mention its Rules, Terminologies & Skills.

PRESCRIBED TEXTBOOKS FOR CLASS – XII

CBSE Physical Education Class XII Text Book
https://cbseacademic.nic.in//web material/Manuals/PhysicalEducation12 2022.pdf

CLASS – XII **SUBJECT : PAINTING**

MONTHLY SYLLABUS BREAK-UP FOR 2023-24

MONTH	W.D.	CHAPTER/TOPIC	CONTENT/SUB TOPIC IN DETAIL	EXPERIMENT/ PRACTICAL
APRIL	17	INTRODUCTION TO INDIAN MINATURE PAINTING	PAL, JAIN AND CENTRAL INDIAN PAINTINGS. DEVELOPMENT OF INDIAN ART	STILL LIFE
MAY + JUNE	10 + 9	RAJASTHANI AND PAHARI SCHOOLS OF MINATURE PAINTING	1. ORIGIN AND DEVELOPMENT 2. MAIN FEATURES OF PAHARI SCHOOL 3. SUB-SCHOOLS-MEWAR, BUNDI, JODHPUR, BIKANER	STILL LIFE
JULY	20	MUGHAL AND DECCAN SCHOOLS OF MINATURE PAINTING	1. BIRTH OF SALIM-RAMDAS 2. STUDY OF DIFFERENT MUGHAL PAINTINGS 3. KRISHNA LIFTING MOUNTAIN 4. BABUR CROSSING RIVER SONE OF AKBAR PERIOD	NATURE STUDY
AUGUST	21	ERA IN INDIAN ART	1. EVOLUTION OF THE INDIAN 2. STUDY OF DIFFERENT PAINTINGS OF THE BENGAL SCHOOL	NATURE STUDY
SEPTEMBER	9	THE MODERN IN DIFFERENT CONTEMPORARY (MODERN) ART	1. STUDY OF DIFFERENT CONTEMPORARY 2. HALDI GRINDERS-AMRITA SHERGILL	HUMAN SKETCHING
OCTOBER	17	STUDY OF DIFFERENT – CONTEMPORARY (MODERN) INDIAN SCULPTURES	1. TRIUMPH OF LABOUR BY DEVI PRASAD ROY 2. SANTHAL FAMILY BY RAM KINKER BAIJ 3. CRIES UNHEARD BY AMARNATH SEHGAL 4. GANESHA BY P.V. JANAKIRAM 5. CHATURMUKHI BY AEKRA YADAGIRI RAO 6. VANSHI BY MRINALINI MUKHERJEE	USE OF WATER COLOUR AND ITS COMPOSITION
NOVEMBER + DECEMBER	14 + 15	REVISION OF THEORY	----------	PROTFOLIO MAKING – PORTFOLIO ASSESSMENT & PRACTICAL FILE SUBMISSION

CLASS – XII **SUBJECT- BHARATNATYAM DANCE**

MONTHLY SYLLABUS BREAK-UP 2023-24

MONTH	W.D	TOPIC	CONTENTS IN DETAIL	PRACTICAL
APRIL	17	Tatti natta adavu,tirmanam..	History of other classica and folkl dfances of india	Tatti natta adavu and tirmanam.
MAY + JUNE	10 + 09	Sarikkal, mandi, kata adavu.	Nritta, natya, nritya, tandav, lasya,ang, pratyang, upang.	All adavus.
JULY	20	Alaripu	Sthan, chari, mandal, bhramri, utplavan, abhinay.	Alaripu.
AUGUST	21	Alaripu	Sangeet, taal, laya, ras.	Aiaripu
SEPTEMBER	09 H.Y.	jathiswaram.	Sthayi and sanchari bhava..	jathiswaram
OCTOBER	17	Jathiswaram	Definition of araimandi, mujhumandi, korvai, adavu, sollu, tirmanam jati, gati, avartana, talangam, nattuvangam..	Jathiswaram
NOVEMBER + DECEMBER	14 + 15	One folk dance	Revisions	Folk dancel.
JANUARY	18	Tillana	Revisions of mythology	Tillana
FEBRUARY	11 ANNUAL	Revisions	Revisions	Revisions

CLASS - XII **SUBJECT- KATHAK DANCE**

MONTHLY SYLLABUS BREAK-UP 2023-24

MONTH	W.D	TOPIC	CONTENTS IN DETAIL	PRACTICAL
APRIL	17	Tatkaar with defferent layas teentaal and jhaptaal, vandana, thaata, amad in teentaal.	History of other classical dfance style of india	Vandana, thaata, amad in teentaal
MAY + JUNE	10 + 09	Tukra, tora and tihai	Life scetch of few great exponent from past and present, intyroduction of natya shastra and abhinaya darpan	Tukra, tora tihai teentaal
JULY	20	Gatnikas	Three gharanas of Kathak Dance, short notes of sangget, taal, laya, sthan, chari, gati, mandal.	Gatnikas teen taal..
AUGUST	21	Gatbhava	Abhinay with four aspects,short notes of karan, anghar,bhramri, utplavan,lokdharmi, natyadharmi, ras and bhava.	Gatbhava in teen taal
SEPTEMBER	09 H.Y	DANCE IN Jhap taal.	Definition of vandana, tihai,aamad, tora, tukra, paran, chakkardar tora, gatnikas and gatbhva.	Namaskar and salami jhap taal..
OCTOBER	17	Dance in Dhamar taal.	Traditional costumes and make up of Kathak Dance..	Salami and aamad in Dhamar taal.
NOVEMBER + DECEMBER JANUARY FEBRUARY	14 + 15 18 11	Parhant and theka. Laykari Parhant of boles Revisions	Tali, khali, sam, tihai,dadra, kaharwa and roopak.. Revisions Revisions	Dance in teen taal, jhap taal, dhamar taal. Dance with hast kriya. Revisions.