

GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2023 – 24]

Class: XI

Subject: English – Core

Prescribed Books :

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

Hornbill:

<u>Prose:</u> 1. The Portrait of a Lady 2. We're Not Afraid to Die... If we can be together 3. Discovering Tut: the Saga Continues 4. The Adventure 5. Silk Road	<u>Poetry:</u> 1. A Photograph 2. The Laburnum Top 3. The Voice of the Rain 4. Childhood 5. Father to Son
--	---

Snapshot:

1. The Summer of the Beautiful White Horse
2. The Address
3. Mother's Day (Play)
4. Birth
5. The Tale of the Melon City

Month	No. of Working Days	Chapters to be covered	Test/Sem.
JUNE	09	Hornbill – The Portrait of a Lady; Poetry – A Photograph; Writing – Speech Writing; Grammar – Tenses;	Periodic Test
JULY	20	Hornbill – We're Not Afraid to Die... If we can be together; Poetry – The Laburnum Top; Snapshot – The Summer of the Beautiful White Horse; Writing – Classified Advertisement; Poster Grammar – Clauses; Reordering/ Transformation of sentences;	Periodic Test
AUGUST	21	Hornbill – Discovering Tut: the Saga Continues ; POETRY – The Voice of the Rain; Snapshot – The Address; Writing – Debate Writing; Grammar : Gap filling exercises; Reading – Notes Making ; Summary;	
SEPTEMBER	09	Revision and Half Yearly Examination;	Periodic Test & H.Y. Exam
OCTOBER	17	Hornbill – The Adventure; Poetry – Childhood; WRITING – Revision of Debate Writing Grammar – Gap filling exercises on Tenses, Clauses (Revision) ;	
NOVEMBER	14	Hornbill – Silk Road; Poetry – Father to Son; WRITING – REVISION of Speech Writing	Periodic Test
DECEMBER	15	Snapshot – Mother's Day ; Reading – Notes- making and Summary (Revision) ; Grammar – Reordering/ Transformation of sentences;	
JANUARY	18	Snapshot – Birth; The Tale of the Melon City; Grammar – Gap filling exercises on Tenses, Clauses (Revision) ; WRITING – Revision of Advertisement; Poster;	Periodic Test
FEBRUARY	11	Revision & Annual Examination	

Class –XI HINDI
Syllabus (2023 – 2024)

Month's Name	No. of working days	Chapter No./ Title	Project/ Assignment
पुस्तकों के नाम--(1) आरोह भाग 1, (2) वितान भाग 1, (3) अभिव्यक्ति माध्यम पाठ्यक्रम का मासिक विभाजन---			
जून	09	पत्र लेखन, अपठित गद्यांश, अपठित पद्यांश	
जुलाई	20	गद्य पाठ - मियां नसीरुद्दीन पद्य पाठ - हम तो एक-एक करि जाना वितान - पाठ 1. भारतीय गायिकाओं में बेजोड़- लता मंगेशकर डायरी लेखन, पत्र लेखन	
अगस्त.	21	गद्य पाठ - विदाई संभाषण पद्य पाठ - मेरे तो गिरधर गोपाल, घर की याद वितान- पाठ 2. राजस्थान की रजत बुंदे जनसंचार माध्यम, रचनात्मक लेखन	परियोजना कार्य
सितंबर	09	गद्यपाठ - पुनरावृत्ति कार्य पद्य और वितान -पुनरावृत्ति कार्य अपठित पद्यांश	
अर्धवार्षिक परीक्षा			
अक्टूबर	17	गद्य पाठ - गलता लोहा पद्य पाठ - चंपा काले काले अक्षर नहीं चिन्हती वितान - पाठ 3. आलो - आंधारि डायरी लेखन, शब्दकोश	
नवंबर	13	गद्य पाठ - रजनी पद्य पाठ - गज़ल वितान - आलो - आंधारि समाचार लेखन, स्ववृत्त लेखन	परियोजना कार्य
दिसंबर	15	गद्य पाठ - जामुन का पेड़ पद्य पाठ - हे भूख ! मत मचल हे मेरे जूही के फूल जैसे ईश्वर वितान - आलो - आंधारि कथा-पटकथा, पत्र लेखन	
जनवरी	18	गद्य पाठ - भारत माता पद्य पाठ - आओ मिलकर बचाएं वितान - पुनरावृत्ति कार्य, शब्दकोश, रचनात्मक लेखन	
फरवरी	11	पुनरावृत्ति कार्य वार्षिक परीक्षा नोट - पूरे वर्ष का पाठ्यक्रम वार्षिक परीक्षा में सम्मिलित है।	

गुरु गोबिन्द सिंह पब्लिक स्कूल
संस्कृत पाठ्यक्रम 2023-2024
कक्षा-एकादश

निर्धारित पुस्तकानि :- पाठ्यपुस्तकानि

पुस्तकों के नाम : (क) भास्वती-प्रथमो भागः-(पाठ्यपुस्तकम्)- रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।
(ख) व्याकरण सौरभम् (संशोधित संस्करणम्)-रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।
रचनानुवाद कौमुदी (सहायक पुस्तकम्) - कपिलदेव द्विवेदी लिखितम् विश्वविद्यालय प्रकाशन, वाराणसी।
संस्कृत साहित्यपरिचयः (सन्दर्भ पुस्तकम्) (संशोधित संस्करणम्)-रा०शै०अनु०प्र०परि० द्वारा प्रकाशितम्। वेद परिजात (अतिरिक्त अध्ययनार्थम्)- रा० शै० अनु० प्र० परि० द्वारा प्रकाशितम्।

पाठ्यक्रम का मासिक विभाजन-

मासिक कार्यदिवसाः

जून	(9)	पाठ्यपुस्तकात् व्याकरणात्	:	(1) कुशल प्रशासनम् सरलार्थम्, पाठाभ्यासकार्यम्। सन्धि-स्वरसन्धि-दीर्घ, गुण, वृद्धि, यण, अयादि। अपठित गद्यांशात् अभ्यासकार्यम्। पत्रलेखनम् अभ्यास कार्यम् लघुकथां सम्पूरयत अभ्यासकार्यम्।
जुलाई	(20)	पाठ्यपुस्तकात् व्याकरणात्	:	(3) 'सुक्ति सूधा' सरलार्थम् पाठाभ्यासकार्यम्। सन्धि-व्यंजन सन्धि-श्चुत्व, ष्टुत्वम्, जश्त्व, णत्वविद्यान, अनुस्वार, परसवर्ण। विसर्गसन्धि-उत्त्व, रूत्व, लोपः, सत्व। कारक-उपदविभक्तिनां वाक्याप्रयोगाः। सरलवाक्यानां संस्कृत भाषायां एकसंख्यातः पंचसंख्यापर्यन्तम् त्रिषु लिंगेषु संख्यानां वाक्यप्रयोगः। वाच्य परिवर्तनम्-(लटलकारे)
अगस्त	(21)	पाठ्यपुस्तकात् व्याकरणात्	:	(5) वीरः सर्वदमनः। (6) "शुकशावकोदन्तः"। अशुद्धि संशोधनम् (लिंग विभक्ति वचनं) प्रत्ययः - क्त्वा, ल्यप्, तुमुन्, क्त, क्तवत्, तव्यत्, अनीयर् (नियमाः वाक्यप्रयोगाः च)। शब्दरूपाणि-बालक, फल, रमा, कवि, मति, नदी, मातृ, पितृ इत्यादि। धातुरूपाणि-परस्परमयीपदी-पंचलकारेषु। आत्मनेपदी-केवलं लट् लृटलकारे। सर्वनाम शब्दरूप-सर्व, यत्, तत्, किम्, इदम् (त्रिषु लिंगेषु), अस्मद्, युष्मद्। हलन्त शब्दरूप-राजन्, गच्छन्, भवत्, आत्मन्, विद्वस्, वाच्।
सितम्बर	(9)	संस्कृत साहित्य	परिचयः - संस्कृत साहित्य परिचयेन वस्तुनिष्ठ, अतिलघुतर प्रश्नाः। प्रश्न-वेद उपनिषद्, पुराण, स्मृतिग्रन्थ, रामायणं, महाभारतं, गद्यकाव्यम्, पद्यकाव्यम्, चम्पूकाव्यम्, विशेषताः (पंचवाक्येषु)। नाटकस्य प्रमुख तत्वानां प्रदत्तपरिभाषासु शुद्धपरिभाषाचयनम्। पुनरावृत्तिकार्यम् : पत्रलेखनाभ्यासम्, लघुकथां सम्पूरयत, पाठ्यपुस्तक अभ्यास कार्यम्। भावार्थत्रये शुद्धभावार्थचयनम्। अन्वयेषु रिक्तस्थानानि पूरयत। प्रसङ्गानुसार अर्थलेखनम्। वाक्यांशानां सार्थकं संयोजनम्। अर्द्धवार्षिकी परीक्षायाः शुभारम्भः।	
अक्टूबर	(17)	पाठ्यपुस्तकात् व्याकरणात्	:	'वाच्यम्' परिभाषा - सामान्यवाच्यपरिवर्तनम् (लटलकारे केवलम्) अशुद्धि संशोधनम् (लिंग-वचन-पुरुष-विभक्ति कालाधारिम्)
नवम्बर	(14)	पाठ्यपुस्तकात् व्याकरणात्	:	(8) संगीतानुरागी सब्बणः" सरलार्थम् पाठ्याभ्यास कार्यम्। (9) "वस्त्रविक्रयः" सरलार्थम्, पाठ्याभ्यासकार्यम्। उचित विभक्तिपदैः रिक्तस्थानानि पूरयत। उचित शब्दरूपैः, धातुरूपैः च रिक्तस्थानानि पूरयत। पाठ्याधारितम् अभ्यास कार्यम्।

दिसम्बर (15) पाठ्यपुस्तकात् : (10) “यदभूतहितं तत्सत्यम्” ।
(11) स में प्रियः पाठस्य सरलार्थम् पाठ्याभ्यासकार्यम् ।
संस्कृत-साहित्य परिचयः गद्यकाव्यस्य, पद्यकाव्यस्य, चम्पूकाव्यस्य, विशेषतः पंचवाक्येषु लिखत ।
पाठ्यपुस्तकात् : श्लोकानां भावार्थलेखनम् । प्रदत्ते भावार्थत्रये शुद्धभावार्थचयनम् ।
अन्वयेषु रिक्तस्थानपूर्तिः ।

जनवरी (18) सम्पूर्णपाठास्याधारितम् अभ्यासकार्यम् । पाठाधारितं व्याकरणस्य
अभ्यासकार्यम् । रचनात्मकं कार्यस्य अभ्यासकार्यम् । प्रश्नपत्रात्
भिन्नं पाठ्यपुस्तकस्य श्लोकमेकं लिखित्वा भावार्थलेखनम् ।
प्रदत्तवाक्यांशानां सार्थकं संयोजनम् । प्रदत्तपंक्तिषु प्रसंगानुसारं पदानां अर्थं लेखनम्
अभ्यास कार्यम् ।

फरवरी (11) संस्कृत-साहित्य परिचयस्य पुनरावृत्तिकार्यम् ।
सम्पूर्ण पाठ्यक्रमस्य द्रुतगत्या पुनरावृत्ति कार्यम् ।

वार्षिकी परीक्षायाः शुभारम्भः

नोट :- अर्द्धवार्षिकी परीक्षायाः द्वौ पाठौ सूक्तिसुधा (तृतीयः पाठः), वीरः दर्शनः (पंचमः पाठः) च वार्षिकी
परीक्षायां सम्मिलितः भविष्यतः ।



SUBJECT : MATHEMATICS (SYLLABUS)

CLASS :11 (2023-2024)

MAX.MARKS: 80

MONTH	WORKING DAYS	CHAPTER/TOPIC	CONTENT/ SUB TOPIC IN DETAIL	EXPERIMENT/PROJECT/ACTIVITY
June		Sets	Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement Sets.	
July	20	Relations & Functions	Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the sets of real with itself (upto $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function; 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 functions, domain and range of these functions: constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.	Activity -6
		Trigonometric Functions	Positive and negative angles. Measuring angles in radians and in degrees and conversion of one into other. Definition of trigonometric functions with the help of unit circle. Truth of the $\sin^2x+\cos^2x=1$, for all x . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin (x\pm y)$ and $\cos (x\pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple application. Deducing identities like the following: Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$	
August	21	Complex Numbers and Quadratic Equations	Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane	Activity -12
		Linear Inequations	Algebraic solutions of linear inequalities in one variable and their representation on the number line.	
		Sequence and Series	Geometric Progression (G.P.), general term of a G.P, sum of n terms of a G.P, infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.	
SEPTEMBER	09	Revision & Half Yearly Examination		
OCTOBER	17	Permutations and Combinations	Fundamental principle of counting. Factorial n . ($n!$) Permutations and combinations, derivation of formulae nPr and nCr and their connections, simple applications.	

		Binomial Theorem	History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle. General and middle term in binomial expansion, simple applications.	Activity -14
NOVEMBER	14	Limits and Derivatives	Limits and Derivatives. Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions, trigonometric, exponential and logarithmic functions. Definition of derivative, relate it to slope of tangent of a curve, derivative of sum, difference, product and quotient of functions. The derivative of polynomial and trigonometric functions.	Activity -29
		Coordinate Geometry Straight Lines	Brief recall of two dimensional geometry from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point-slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.	
DECEMBER	15	Conic Sections of a cone:	Circles: Standard equation of a circle ellipse, parabola, hyperbola; a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola.	Activity -32
JANUARY	18	Introduction to Three-dimensional Geometry	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.	Activity - 32
		Probability	Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.	
		Statistics	Measures of dispersion; Range, mean deviation, variance and standard deviation of ungrouped/ grouped data. Comprehensive Revision for annual examination.	
FEBRUARY	13	REVISION & Annual Examination		

APPLIED MATHEMATICS

(Session 2023-24)

No. Of Periods	Chapter Name	Marks
25	Numbers Quantification & Numerical Application	09
45	Algebra	15
15	Mathematical Reasoning	06
35	Calculus	10
25	Probability	08
35	Descriptive Statistics	12
45	Basic of Financial Maths	15
15	Co-ordinate Geometry	05
Total		Total
240		80

Month	No of working Days	Chapter Name
June	09	Sets & Relation ,Function
July	20	Sequence & Series, Numbers, Indices & Log
August	21	Quantitive Aptitude, Mensuration, Permutation & Combination
Sep	09	Logical Reasoning, Limit & Continuty. (Half Yearly Exam)
Oct.	17	Differentition ,Probability
Nov	13	Descriptive & Statistics, Compound Interest &
Dec	15	Annuity, Straight line Circle
Jan	18	Parabola, Taxation, Utility
Feb.	11	Final Exam & Revision

Subject: Physics (11th)

Syllabus (2023-24)

UNIT NO.	TITLE	No. of Periods
Unit - I	Chapter – 1: Basic Mathematical Tools	8
	Chapter – 2: Units and Measurements	
Unit - II	Kinematics	24
	Chapter – 3: Motion in a Straight Line	
	Chapter – 4: Motion in a Plane	
Unit – III	Laws of Motion	14
	Chapter – 5: Laws of Motion	
Unit - IV	Work, Energy and Power	14
	Chapter – 6: Work, Energy and Power	
Unit - V	Motion of System of Particles and Rigid body	18
	Chapter – 7: System of Particles and Rotational Motion	
Unit - VI	Gravitation	12
	Chapter – 8: Gravitation	
Unit - VII	Properties of Bulk Matter	24
	Chapter – 9: Mechanical Properties of Solids	
	Chapter – 10: Mechanical Properties of Fluids	
	Chapter – 11: Thermal Properties of Matter	
Unit - VIII	Thermodynamics	12
	Chapter – 12: Thermodynamics	
Unit- IX	Behaviour of Perfect Gases and Kinetic Theory of Gases	08
	Chapter – 13: Kinetic Theory	
Unit - X	Oscillations and Waves	26
	Chapter – 14: Oscillations	
	Chapter – 15: Waves	
	Total	160

Monthly Syllabus Break-up (2021-22)

Month	No. of Working Days	Chapters to be Covered	Content in Details
June	09	Chapter – 1: Basic Mathematical Tools	
		Chapter-2: Units & Measurement	Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications.
July	20	Unit – II Kinematics	
		Chapter-3: Motion in a straight Line	Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).

August	21	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, 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 acceleration projectile motion, uniform circular motion.
August		Unit – III Laws of Motion	
		Chapter – 5: 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. 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 a banked road).
September	09	Unit – IV Work, Energy and Power	
		Chapter – 6: 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: non- conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.
October	17	Unit – V Motion of System of Particles and Rigid Body	
		Chapter-7: System of Particles and Rotational Motion	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).
November	14	Unit – VI: Gravitation	
		Chapter-8: Gravitation	Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite.

		Unit – VII: Properties of Bulk Matter	
		Chapter-9: Mechanical Properties of Solids	Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.
December	15	Chapter-10: Mechanical Properties of Fluids	Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.
December		Chapter-11: Thermal Properties of Matter	Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; C_p , C_v - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.
		Unit – VIII: Thermodynamics	
December		Chapter-12: Thermodynamics	Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes.
		Unit – IX: Behaviour of Perfect Gases and Kinetic Theory of Gases	
January	18	Chapter-13: Kinetic Theory	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.
		Unit – X: Oscillations and Waves	
January		Chapter-14: Oscillations	Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their application. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.
January		Chapter-15: Waves	Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.
February	11		REVISION AND ANNUAL EXAM

CONTENT DETAILS

Chapter – 1: Basic Mathematical Tools

Chapter–2: Units and Measurements

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. 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, Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, 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, 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 acceleration projectile motion, uniform circular motion.

Unit III: Laws of Motion

Chapter–5: 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. 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 a banked road).

Unit IV: Work, Energy and Power

Chapter–6: 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: 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

Chapter–7: System of Particles and Rotational Motion

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).

Unit VI: Gravitation

Chapter–8: Gravitation

Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite.

Unit VII: Properties of Bulk Matter

Chapter–9: Mechanical Properties of Solids

Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.

hapter–10: Mechanical Properties of Fluids

Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.

Chapter–11: Thermal Properties of Matter

Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; C_p , C_v - calorimetry; change of state - latent heat capacity. Heat transfer- conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law .

Unit VIII: Thermodynamics

Chapter–12: Thermodynamics

Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes.

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

Chapter–13: Kinetic Theory

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.

Unit X: Oscillations and Waves

Chapter–14: Oscillations

Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their application. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.

Chapter–15: Waves

Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.

Subject : Chemistry (11th)

Syllabus (2023-24)

Unit No.	Title	No. of Periods
Unit I	Some Basic Concepts of Chemistry	18
Unit II	Structure of Atom	20
Unit III	Classification of Elements and Periodicity in Properties	12
Unit IV	Chemical Bonding and Molecular Structure	20
Unit V	Chemical Thermodynamics	23
Unit V	Equilibrium	20
Unit VII	Redox Reactions	09
Unit VIII	Organic Chemistry: Some Basic Principles and Techniques	20
Unit IX	Hydrocarbons	18
	Total	160

Monthly Syllabus Break-up (2020-2021)

Month	No. of Working Days	Chapters to be covered	Contents in detail
-------	---------------------	------------------------	--------------------

June	09	Unit – 1 Some Basic Concepts of chemistry	General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Daltons atomic theory: concept of elements, atoms, and molecules. Atomic and molecular masses, .
July	20	Some Basic Concepts of chemistry(Contd.) Unit -2 Atomic structure	mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. 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.
		Unit -3 PERIODIC CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTY Unit 4 CHEMICAL BONDING AND MOLECULAR STRUCTURE	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. Valence electrons, ionic bond, covalent bond; bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s,p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond.

Aug	21	Unit -5 THERMODYNAMICS	<p>Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.</p> <p>First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH, 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)</p> <p>Introduction of entropy as a state function, Gibb's energy change for spontaneous and non-spontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction).</p>
Sep.	09	Unit- 6 CHEMICAL 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, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples).
Oct.	17	Unit- 7 REDOX REACTIONS UNIT -8 <u>Organic Chemistry - Some Basic Principles and Technique</u>	<p>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.</p> <p>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.</p>
Nov.	14	Unit- 9 HYDROCARBON	<p>Classification of Hydrocarbons Aliphatic Hydrocarbons:</p> <p>Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.</p> <p>Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.</p> <p>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.</p> <p>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</p>
Dec.	15		REVISION
Jan.	18		REVISION
Feb,	11		REVISION AND ANNUAL EXAM

BIOLOGY

Books prescribed:

1. NCERT Biology for class-XI

Syllabus for the whole year – (2023 – 24)

Unit I- Diversity in the Living World – 15 Marks

- | | |
|---------------------|-------------------------------|
| 1. The living world | 2. Biological classification. |
| 3. Plant Kingdom | 4. Animal Kingdom |

Unit II- Structural organisation in Animals and plants – 10 Marks

- | | |
|---------------------------------------|--------------------------------|
| 5. Morphology of flowering plants | 6. Anatomy of Flowering Plants |
| 7. Structural organisation in Animals | |

Unit III-Cell: Structure & function – 15 Marks

- | | |
|--------------------------------|-----------------|
| 8. Cell: The unit of life. | 9. Biomolecules |
| 10. Cell cycle & cell division | |

Unit IV: Plant Physiology – 12 Marks

- | | |
|-------------------------------------|---------------------------|
| 11. Photosynthesis in higher plants | 12. Respiration in plants |
| 13. Plants Growth & Development | |

Unit V: Human Physiology – 18 Marks

- | | |
|---|--|
| 14. Breathing & Exchange of gases | 15. Body fluids & Circulation |
| 16. Excretory product & their elimination | 17. Locomotion & Movement |
| 18. Neural Control and Coordination | 19. Chemical coordination & Integration. |

Months	No of working days	Chapter/Topic	Content / Sub topic in detail	Experiment / Activity/Project
June	09	(i) Biological classification (ii) Plant Kingdom	(i) Biological Classification: Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids. (ii) 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)	B.Study/ observation S1.No 1,2,3
July	20	(i) The living world (ii) Animal Kingdom (iii) Photosynthesis in higher plants	(i) The Living World : Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature. (ii) 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). (No live animals or specimen should be displayed.) (iii) 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.	A.List of Experiment: S1 3,4

August	21	(i) Respiration in Plants (ii) Plants growth & development (iii) Morphology of flowering plants	<p>(i) 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.</p> <p>(ii) Plants growth & 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;</p> <p>(iii) Morphology of flowering plants: Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae</p>	List of Experiment Sl no 1 & 2
September	09	(i) Anatomy of flowering plants	<p>(i) Anatomy of Flowering Plants: Anatomy and functions of different tissues and tissue systems.</p>	B.Study /Observation Sl.No.4,
October	17	(i) Structural Organisation in Animals (ii) Cell: the unit of life. (iii) Biomolecules	<p>(i) Structural Organisation in Animals: Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog</p> <p>(ii) 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 (ultrastructure and function); nucleus.</p> <p>(iii) 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)</p>	B.Study /Observation Sl.no 5
November	14	(i) Cell cycle & Cell division (ii) Breathing & Exchange of gases	<p>(i) Cell cycle & Cell division: Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance.</p> <p>(ii) 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</p>	A.List of Experiment: S1 5
December	15	(i) Body fluids & Circulation (ii) Excretory Product & their elimination	<p>(i) Body fluids & Circulation : Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system -</p>	A.List of Experiment: S1 6,8

			<p>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..</p> <p>(ii) Excretory Product & 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.</p>	
January	18	(i) Locomotion & Movement (ii) Neural Control & Coordination	<p>(i) Locomotion & 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.</p> <p>(ii) Neural Control & Coordination: Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.</p>	<p>B.Study /Observation Sl.no 6</p> <p>A List of Experiment : Sl.no 7,9,10 & 11</p>
February	11	(i) Chemical coordination & Integration	<p>(i) Chemical coordination & 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. Note: Diseases related to all the human physiological systems to be taught in brief.</p> <p>Revision & Annual Examination</p>	<p>A List of Experiment : Sl.no 12 & 13</p>

Class XI Syllabus (Subject : Computer Science) 2023-24

Book Prescribed :

Computer Science with Python (NCERT)

Computer Science with Python By Sumita Arora (Publication : Dhanpat Rai)

Computer Science with Python By Sumita Arora (Publication : Dhanpat Rai)

Month	No. of Working Days	Chapter Name	Chapters/Topic to be covered	Activity/Practical
June	09	Computer Systems and Organisation	<ul style="list-style-type: none"> • 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 • Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. 	<ul style="list-style-type: none"> • Various types of number conversions from – Decimal to Binary, Binary to Decimal, Decimal to Octal, Octal to Binary
July	20	Computer Systems and Organisation (Conti...) Unit II: Computational Thinking and Programming – 1	<ul style="list-style-type: none"> • Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits • Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) • 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 	<ul style="list-style-type: none"> • Draw various types of Logic circuits. • Various types of truth tables. • Installing of python software. Basic programming in python. • Executing a simple "hello world" program. • Python programs to use various kinds of arithmetic and relational operators.

			<p>operators(is, is not), membership operators(in, not in)</p> <ul style="list-style-type: none"> • 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 	
Aug	21	Unit II: Computational Thinking and Programming – 1	<ul style="list-style-type: none"> • Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control • 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 • Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, 	<ul style="list-style-type: none"> • Determine whether a number is a perfect number, an Armstrong number or a palindrome. • Input a number and check if the number is a prime or composite number. • Write a program to check given number is negative or positive.
Sept	09	Unit II: Computational Thinking and Programming – 1	<ul style="list-style-type: none"> • Strings (Conti.) : 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() <p style="text-align: center;">***Half Yearly Examination***</p>	<ul style="list-style-type: none"> • Write a program to check whether given string is a palindrome or not.
Oct	17		<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Write a Python program to multiply all the items of a list. • Write a Python program to print a specified list after removing the 0th, 4th and 5th elements.
Nov	14	Unit II: Computational Thinking and Programming – 1	<ul style="list-style-type: none"> • 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 tuple 	<ul style="list-style-type: none"> • Write a Python program to create a tuple of numbers and print one item. • Write a Python program to get the 4th element from the last element of a tuple.

			<ul style="list-style-type: none"> ● Dictionary: introduction, accessing items in 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 	<ul style="list-style-type: none"> ● Write a program to create a dictionary of weekly temperature of the city. ● Write a Python program to count the number of items in a dictionary value that is a list.
Dec	15	Unit II: Computational Thinking and Programming – 1 (Conti...)	<ul style="list-style-type: none"> ● Introduction to Python modules: Importing module using 'import' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode) 	
Jan	18	Unit III: Society, Law and Ethics	<ul style="list-style-type: none"> ● 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) ● 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 	
Feb	11		***Revision for Annual Examination***	

SPLIT UP OF SYLLABUS [SESSION 2023 – 24]

Subject: Informatics Practices (065)

- i) Informatics Practices (A text book for class XI) (NCERT)
- ii) Informatics Practices with Python by Sumita Arora (Dhanpat Rai Publication)
- iii) Informatics Practices with Python by Preeti Arora (Sultan Chand Publication)

Month	Working Days	Chapter/Topics to be covered	Activity/Practical
June	09	Unit 1: Introduction to Computer System: Introduction to computer and computing: evolution of computing devices, components of a Computer System and their interconnections, Input/Output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.	<ul style="list-style-type: none">• Explanation of the Basics of Computer.• Differentiate System Software vs Application Software.• Define Computer Memory.
July	20	Unit 2: Introduction to Python : Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion, debugging, control statements: if-else, for loop	<ul style="list-style-type: none">• Installing of python software. Basic programming in python.• Executing a simple "hello world" program.• Python programs to use various kinds of arithmetic and relational operators.• Determine whether a number is a perfect number, an Armstrong number or a palindrome.• Input a number and check if the number is a prime or composite number.
Aug	21	Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum()	<ul style="list-style-type: none">• To find the largest and smallest numbers in a list.• To find the third largest/smallest number in a list.• To find the sum of squares of the first 100 natural numbers.• To print the first 'n' multiples of given number.• To count the number of vowels in user entered string.• To print the words starting with a alphabet in a user entered string.• To print number of occurrences of a given alphabet in each string.

Sept	09	***Half Yearly Examination***	
Oct	17	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()	<ul style="list-style-type: none"> • Create a dictionary to store names of states and their capitals. • Create a dictionary of students to store names and marks obtained in 5 subjects. To print the highest and lowest values in the dictionary.
Nov	14	Unit 3: Database concepts and the Structured Query Language: Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key. Structured Query Language: Advantages of using SQL, Data Definition Language, Data Query Language and Data Manipulation	<ul style="list-style-type: none"> • To create a database • 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. • To insert the details of at least 10 students in the above table. • To display the entire content of table. • To display Rno, Name and Marks of those students who are scoring marks more than 50.
Dec	15	Unit 3: Database concepts and the Structured Query Language: (Conti...) Language, Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types : char, varchar, int, float, date Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE	<ul style="list-style-type: none"> • To find the average of marks from the student table. • To find the number of students, who are from section 'A'. • To display the information all the students, whose name starts with 'AN' (Examples: ANAND, ANGAD,...) • To display Rno, Name, DOB of those students who are born between '2005-01-01' and '2005-12-31'. • To display Rno, Name, DOB, Marks, Email of those male students in ascending order of their names. • To display Rno, Gender, Name, DOB, Marks, Email in descending order of their marks. • To display the unique section available in the table.
Jan	18	Unit 5: 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, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology	Explanation of the given topics/sub-topics : <ul style="list-style-type: none"> • Machine Learning • AR/VR • Smart Cities • Block Chain • Grid Computing
Feb	11	Revision of Annual Examination	

Accountancy (Code No. 055)

SYLLABUS CLASS XI SESSION 2023 - 24

Units		Marks
	Part A: Financial Accounting – I	
1.	Theoretical Framework	12
2.	Accounting Process	44
	Total	56
	Part B : Financial Accounting – II	
3.	Financial Statements of Sole Proprietorship from Complete and Incomplete Records	24
	Part C : Project Work	20
	Total	100

MONTHLY SYLLABUS BREAK-UP FOR 2023 - 24

2023 – 24 Month	No. of Working days	Chapters to be Covered
June	9	Unit 1: Theoretical Framework 1. Introduction to Accounting
July	20	Unit 2: Accounting Process 1. Recording of Business Transactions : Accounting Equation
August	21	Unit 2: Accounting Process 2. Recording of Business Transactions : Journal and Source documents and Vouchers 3. Ledger & Trail Balance
September	09	Unit 2: Accounting Process 4. Special Purpose Books 5. Bank Reconciliation Statement Revision & Half Yearly Examination
October	17	Unit 2: Accounting Process 6. Depreciation , Provisions and Reserves
November	14	Depreciation , Provisions and Reserves (Cont...) Unit 3 : Financial Statements 1. Financial Statements of Sole Proprietorship
December	15	1. Financial Statements of Sole Proprietorship (Cont..) 2. Financial Statements from Incomplete Records
January 2024	18	Unit 2: Accounting Process 7. Rectification of Errors Project Work & Revision
February 2024	11	Revision & Final Examination

BUSINESS STUDIES (CODE NO. 054)

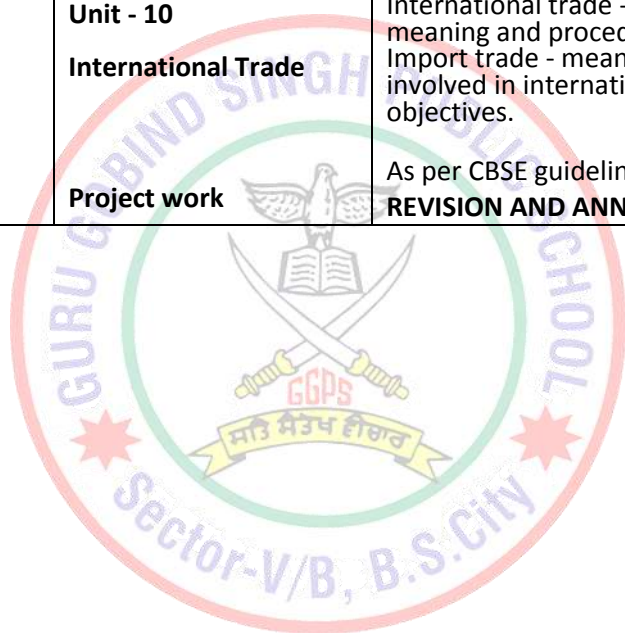
MONTHLY SYLLABUS BREAKUP SESSION (2023-24)

UNITS		Marks
PART- A	FOUNDATIONS OF BUSINESS	
1.	NATURE AND PURPOSE OF BUSINESS	16
2.	FORMS OF BUSINESS ORGANISATIONS	
3.	PUBLIC, PRIVATE AND GLOBAL ENTERPRISES	14
4.	BUSINESS SERVICES	
5.	EMERGING MODES OF BUSINESS	10
6.	SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS	
	TOTAL	40
PART- B	FINANCE AND TRADE	
7.	SOURCES OF BUSINESS FINANCE	20
8.	SMALL BUSINESS	
9.	INTERNAL TRADE	20
10.	INTERNATIONAL BUSINESS	
	TOTAL	40
PART- C	PROJECT WORK	20

MONTH WISE DISTRIBUTION OF THE WHOLE SYLLABUS

2022-23 MONTH	NO. OF WORKING DAYS	CHAPTER/ TOPIC	CONTENT/ SUB-TOPIC IN DETAIL
June	09	Unit - 1. Evolution and fundamentals of business	History of trade and commerce in India. Business- meaning and characteristics, Concept. Objectives of business, Classification of business. Business risk.
July	20	Unit - 2. Forms of business organizations	Sole proprietorship- concept, merits and limitations. Partnership - concept, merits, limitations, registration of partnership firms, partnership deed, types of partners. Hindu undivided family business - concept. Co-operative societies, Company - concept, merits and limitations, types of companies, formation of company-its stages.
August	21	Unit - 3. Public, private and global enterprises. Unit - 4. Business services	Public sector and private sector enterprises - concept. Types of public sector enterprises- Departmental undertakings, Statutory corporations and Government company Multinational companies. Business services - meaning and types. Banking - concept and types of bank accounts. Banking services. Insurance - concept and principles of insurance, types of insurance. Postal services.
September	09	Unit - 5. Emerging modes of business	E-business - concept, scope and benefits.
October	17	Unit -6. Social Responsibility of Business and Business Ethics	Social responsibility - concept and cases. Responsibility towards different interest groups. Role of business in environment protection. Business ethics - concept and elements.
			REVISION AND HALF YEARLY EXAMINATION

November	14	Unit – 7 Sources of Business finance	Concept of business finance. Owner's funds - equity shares, preference shares, retained earnings. Borrowed funds - debentures and bonds, loan from financial institutions and commercial banks, public deposits, trade credit, ICDs.
December	15	Unit – 8 Small business and Enterprise	Entrepreneurship development - concept, characteristics and need. Start-up India scheme, ways to fund start-ups Intellectual property rights. Small scale enterprises as defined by MSMED Act, 2006. Role of small business in India with special reference to rural areas. Government schemes and agencies for small scale industries - NSIC, DIC with special reference to rural and backward areas.
January	18	Unit – 9 Internal trade	Internal trade - meaning and types. Services rendered by a wholesaler and a retailer. Types of retail trade. Large scale retailers - departmental stores and chain stores. GST - concept and key features.
February	15	Unit - 10 International Trade Project work	International trade - concept and benefits. Export trade - meaning and procedure. Import trade - meaning and procedure. Documents involved in international trade. WTO - meaning and objectives. As per CBSE guidelines. REVISION AND ANNUAL EXAMINATION



ECONOMICS

ECONOMICS CLASS – XI (2023-24)

MONTH WISE DISTRIBUTION OF SYLLABUS

Books Recommended : (i) NCERT

Part A: Statistics for Economics

Units	Marks
1. Introduction	15
2. Collection , Organisation & Presentation of Data	
3. Statistical Tools and Interpretation	25
Total:	40

Part B: Introductory Microeconomics

Units	Marks
4. Introduction	04
5. Consumer's equilibrium & Demand	14
6. Producer Behaviour & supply	14
7. Forms of Market and Price Determination under perfect Competition with simple applications	08

Total: 40

Part C: Project 20 Marks

MONTH WISE BREAKUP OF SYLLABUS

Month	No. W.D	Chapters to be covered	Activity/Project	Test/ Sem.	Prescribed Book	Publication
June	09	Unit – 1 Introduction (Statistics) (What is Economics? Meaning, scope, functions and importance of statistics in Economics) Unit – 4 Introduction (Micro) (Meaning of microeconomics and macro economics; 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.)			NCERT Text Book Part-A & Part-B (XI)	NCERT
July	20	Unit 5 Consumer's equilibrium & Demand Chapter – Consumer's equilibrium Utility Analysis. (Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.) Chapter – Consumer's equilibrium Indifference Curve Analysis (Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.) Chapter – Theory of Demand. (Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve)			Note: Latest Edition of Text Book should be use.	

August	21	<p>Chapter – Elasticity of Demand (price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method and total expenditure methods)</p> <p>Unit – 2 Chapter – 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.)</p> <p>Chapter – Organisation of Data Meaning and types of variables; Frequency Distribution.</p> <p>Chapter – 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)</p>				
September	09	<p>Unit – 3 Chapter – Measures of central Tendency Arithmetic Mean</p> <p>Revision for Half Yearly Examination</p>		Half yearly Examination		
October	17	<p>Unit – 3 – Chapter – Measures of central Tendency Median ,Mode</p> <p>Unit – 6 Chapter – Production Function (Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor)</p> <p>Chapter – Concept of Cost (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 relationships.</p>				
November	14	<p>Chapter – Concept of Revenue (Revenue - total, average and marginal revenue – meaning and their relationship.)</p> <p>Chapter – Producers equilibrium (Producer's equilibrium-meaning and its conditions in terms of marginal revenue marginal cost.)</p> <p>Chapter – Theory of supply (Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve)</p>				
December	15	<p>Chapter – Elasticity of supply (price elasticity of supply; measurement of price elasticity of supply - percentage-change method.)</p> <p>Units – 3</p> <p>Chapter – Correlation (meaning and properties, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.)</p>				

January	18	Chapter – 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 method. Unit – 7 Chapter – Forms of Market & Price determination under perfect Competition with simple applications (Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. Simple Applications of Demand and Supply. (Short run only) Price ceiling, price floor.)				
February	11	REVISION & FINAL EXAMINATION				



CLASS XI (2023-24)
ENTREPRENEURSHIP (CODE NO. 066)
COURSE STRUCTURE

Theory Paper Time: 3 hours

Maximum marks: 70

S. No		Unit	Marks
UNIT 1		Entrepreneurship: Concept and Functions	15
UNIT 2		An Entrepreneur	
UNIT 3		Entrepreneurial Journey	20
UNIT 4		Entrepreneurship as Innovation and Problem Solving	
UNIT 5		Understanding the Market	15
UNIT 6		Business Finance and Arithmetic	20
UNIT 7		Resource Mobilization	
		PROJECT WORK	30
		Total	100
Month	No. of Days	Topics in Detail	
JUNE		Unit 1: Entrepreneurship: Concept and Functions Entrepreneurship – Concept Functions and Need Myths about Entrepreneurship Why Entrepreneurship for You	
JULY		Unit 1: Entrepreneurship: Concept and Functions Advantage and Limitations of Entrepreneurship Process of Entrepreneurship Entrepreneurship -The Indian Scenario Unit 2: An Entrepreneur Why be an Entrepreneur Types of Entrepreneurs Competencies and characteristics Entrepreneurial Values, Attitudes and Motivation Intrapreneur- Meaning and Importance	
AUGUST		Unit 3: Entrepreneurship Journey Idea generation Feasibility Study and opportunity assessment Business Plan: meaning, purpose and elements Execution of Business Plan Unit 4: Entrepreneurship as Innovation and Problem Solving Entrepreneurs as problem solvers Innovations and Entrepreneurial Ventures – Global and Indian Role of Technology – E-commerce and Social Media Social Entrepreneurship - Concept	
SEPTEMBER		Revision and Half Yearly Examination 2023 – 24	
OCTOBER		Unit 5: Understanding the Market Market: Concept, Types Micro and Macro Market Environment	
NOVEMBER		Unit 5: Understanding the Market Market Research – Concept Importance and Process, Marketing Mix Unit 6: Business Finance and Arithmetic Unit of Sale, Unit Price and Unit Cost – for single product or service	
DECEMBER		Unit 6: Business Finance and Arithmetic Types of Costs - Start up, Variable and Fixed Break Even Analysis - for single product or service	
JANUARY		Unit 7: Resource Mobilization Types of Resources – Physical, Human Financial and Intangible Selection and utilization of human resources and professionals like Accountants, Lawyers, Auditors, Board Members, etc.	
FEBRUARY		Revision and Annual Examination 2023 – 24	

GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2022-2023]

CLASS:- XI

SUBJECT :- HISTORY

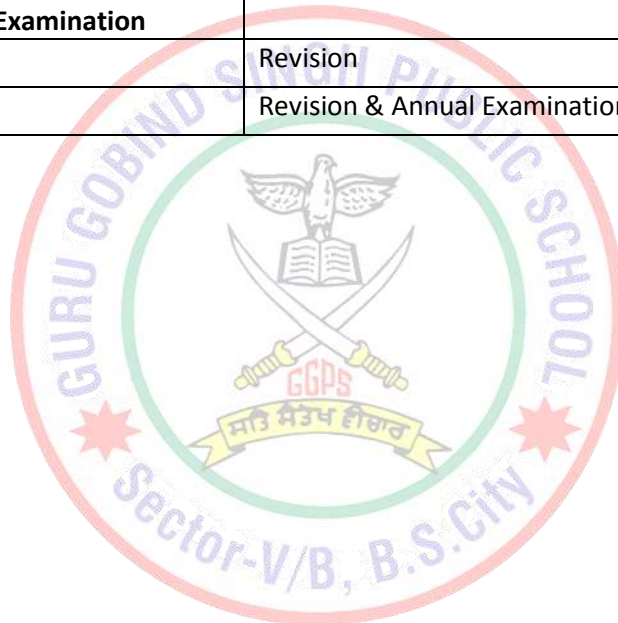
PRESCRIBED BOOKS:

Themes in World History(NCERT)

Month	No. of Working Days	Chapters to be covered	Contents	Activity/Project
June	09	Ch 2. Writing and City Life Section II - Empires Ch 3. An Empire Across Three Continents	<ul style="list-style-type: none"> * Mesopotamia and its Geography *The significance of Urbanism *Movement of Goods into Cities *The development of writing *Urbanisation in Southern Mesopotamia: Temples and Kings *Life in the City *A trading town in a pastoral Zone *Cities in Mesopotamian culture *The legacy of writing *The Early Empire *The Third Century Crisis *Gender, Literacy, Culture *Economic Expansion *Controlling workers *Social Hierarchy 	<p>*On the map of West Asia mark and locate the famous cities of Mesopotamia</p> <p>*On the outline political map of the World mark the stretch of the Early Roman Empire in three continents of Europe, North Africa and Asia.</p>
July	20	Ch5. Nomadic Empire	<ul style="list-style-type: none"> *Social and political background *The career of Genghis Khan *The Mongols after Genghis Khan *Social, Political and Military Organisation *Conclusion: Situating Genghis Khan and the Mongols in World History 	<p>*Map skills</p> <p>1. On the given map of South-East Asia mark and locate the following places related to Mongol empire:</p> <ol style="list-style-type: none"> i. Karakoram ii. Moscow iii. Turfan iv. Merv v. Herat vi. Balkh <p>2. With the help of arrow and place mark and locate the campaigns of the Mongols</p>

August	21	Section III – Changing Traditions Ch6. The Three Orders	<ul style="list-style-type: none"> *An Introduction to Feudalism *France and England *The Second Order: The Nobility *The Manorial Estate *The Knights *The First Order: The Clergy *The Church and Society *The Third Order: Peasants, Free and Unfree *Factors affecting Social and Economic Order *A Fourth Order? New Towns and Townspeople *The crisis of the Fourteenth Century 	<ul style="list-style-type: none"> *On the map of Western Europe mark and locate the following extent of feudalism: <ul style="list-style-type: none"> i. St. Denis ii. Bingen iii. London iv. Rome v. Venice
September	09	Revision & Half Yearly Examination		
October	17	Ch7. Changing Cultural Traditions	<ul style="list-style-type: none"> *The Revival of Italian Cities *Universities and Humanism *The Humanist view of History *Science and Philosophy: The Arab's Contribution *Artists and Realism *Architecture *The First Printed Books *A new concept of Human Beings *The Aspirations of Women *Debates within Christianity *The Copernican Revolution *Reading the Universe *Was there a European 'Renaissance' in the Fourteenth Century? 	<ul style="list-style-type: none"> *On the political map of Europe mark and locate the following Italian States: Rome, Venice, Padua, Genoa, Mantua and Florence
November	14	Section D Ch 10. Displacing Indigenous Peoples Ch 11. Paths to Modernisation	<ul style="list-style-type: none"> *European Imperialism *North America *Encounters *Mutual Perceptions *The Native Peoples Lose their Land *The Gold Rush, and the Growth of Industries. *Constitutional Rights *The Winds of Change..... *Australia *Japan – The Political System *The Meiji Restoration *Modernising the Economy *Industrial Workers *Aggressive Nationalism *'Westernisation' and 'Tradition' *Daily Life *Overcoming Modernity After Defeat: Re-emerging as a Global Economic Power 	<ul style="list-style-type: none"> *On the given map, mark and locate the extent of the USA *On the map of Australia mark and locate the following Perth, Sydney, Adelaide, Darwin, Melbourne, Canberra

			<ul style="list-style-type: none"> *China – Establishing the Republic *The Rise of the Communist Party of China *Establishing the New Democracy: 1949-65 *Conflicting Visions: 1965-78 <ul style="list-style-type: none"> *Reforms from 1978 *The Story of Taiwan *Two Roads to Modernisation 	<ul style="list-style-type: none"> *On the map of China, mark and locate the main route of Long March
December	15	Ch 11. Paths to Modernisation-Contd... Revision and Annual Examination		
January	18		Revision	
February	11		Revision & Annual Examination	



CLASS 11
SYLLABUS GEOGRAPHY
SESSION 2023-24

	No. of working days	Chapter No./ Title	Content	Practical
TERM- 1				
June	09	UNIT 1 PART A Geography as a Discipline	<ul style="list-style-type: none"> • Geography as an integrating discipline, as a science of spatial attributes • Branches of Geography: Physical Geography and Human Geography 	Fundamentals of Maps <ul style="list-style-type: none"> • Geo spatial data, Concept of Geographical data matrix; Point, line, area data
July	20	UNIT 7 PART B Introduction India: Location, space relations, India's place in the world		
August	21	UNIT 2 PART A The Earth UNIT 8 PART B Physiography	<ul style="list-style-type: none"> • Origin and evolution of the earth • Interior of the earth Earthquakes and volcanoes: causes, types and effects • Distribution of oceans and continents: Wegener's continental drift theory and plate Tectonics • Structure and Relief; Physiographic Divisions • Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers 	
		UNIT 3 PART A Landforms PART B UNIT 8(CONT.)	<ul style="list-style-type: none"> • Geomorphic processes: weathering; mass wasting; erosion and deposition; soil-formation • Landforms and their evolution- Brief erosional and depositional features 	<ul style="list-style-type: none"> • Maps - types; scales- types; construction of simple linear scale, measuring distance; finding direction and use of symbols
September	09	UNIT 4 PART A Climate	<ul style="list-style-type: none"> • Atmosphere- composition and structure; elements of weather and climate • Solar Radiation-Insolation- angle of incidence and distribution; heat budget of the earth- heating and cooling of atmosphere (conduction, convection, terrestrial 	<ul style="list-style-type: none"> • Map projection- Latitude, longitude and time, typology, construction and properties of projection: Conical with one standard parallel and Mercator's projection. (only two projections)

			<p>radiation and advection); temperature- factors controlling temperature; distribution of temperature- horizontal and vertical; inversion of temperature</p> <ul style="list-style-type: none">• Atmospheric circulation and weather systems - Pressure- pressure belts; winds- planetary, seasonal and local; air masses and fronts; tropical and extra tropical cyclones.• Water in the atmosphere- Precipitation- evaporation; condensation-dew, frost, fog, mist and cloud; rainfall-types and world distribution• World Climate and Global Concerns.	
TERM – 2				
October	17	<p>UNIT 5</p> <p>PART A Water (Oceans)</p> <p>UNIT 9</p>	<ul style="list-style-type: none">• Basics of Oceanography• Oceans - distribution of temperature and salinity• Movements of ocean water- waves, tides and currents; submarine reliefs	<p>Topographic and Weather Maps</p> <ul style="list-style-type: none">• Study of topographic maps (1 : 50,000 or 1 : 25,000 Survey of India maps); contour cross section and identification of landforms-slopes, hills, valleys, waterfall, cliffs; distribution of settlements• Satellite imageries, stages in remote sensing data- acquisition, platform and sensors and data products, (photographic and digital)
November	14	<p>UNIT 6</p> <p>PART A Life on the Earth</p>	<ul style="list-style-type: none">• Biosphere - importance of plants and other organisms; biodiversity and conservation	
December	15	<p>UNIT 10</p>	<ul style="list-style-type: none">• Floods, Cloudbursts• Droughts: types and impact• Earthquakes and Tsunami• Cyclones: features and impact• Landslides	
January	18	<p>PART B Hazards and Disasters: Causes, Consequences And Management</p>		
February	11	Revision & Annual Examination		

GURU GOBIND SINGH PUBLIC SCHOOL

SPLIT UP OF SYLLABUS [SESSION 2023-2024]

CLASS: XI

SUBJECT : POLITICAL SCIENCE

PRESCRIBED BOOKS

PART A - Indian Constitution At Work (NCERT)

PART B - Political Theory (NCERT)

Month	No. of Working Days	Chapters to be covered	Contents	Activity/Project
June	09	PART A: INDIAN CONSTITUTION AT WORK Ch1. Constitution: Why and How? Ch3. Election and Representation	*Why do we need a Constitution? *Specification of Decision making powers *Limitations on the powers of Government *Aspirations and goals of a society *Fundamental Identity of a people *The Authority of a Constitution *Mode of promulgation *The substantive provisions of a Constitution *Institutional Arrangements *Provisions adapted from Constitutions of different countries *Elections and Democracy *Proportional Representation *Comparison of FPTP and PR system of Election *Why did India adopt the FPTP system? *Reservation of Constituencies *Free and Fair Elections *Independent Election Commission *Electoral Reforms	*Prepare a chart mentioning the sources of the Indian Constitution along with the features taken from different countries *"Indian democracy is now ready to shift from a crude First Past the Post system to a system of Proportional Representation". Do you agree? Give your reasons for or against this statement.
July	20	Ch 4.Executive	*What is an Executive? *What are the Different Types of Executive *Parliamentary Executive in India	*Differentiate between permanent executive and political executive.

		Ch 5. Legislature	<ul style="list-style-type: none"> *Power and Position of President *The Vice President of India *Prime Minister and Council of Minister *Permanent Executive: Bureaucracy *Classification of Civil Services *Why do we need a Parliament *Why do we need two Houses of Parliament? *States having a bicameral legislature *Rajya Sabha and Lok Sabha *What does the Parliament do? *How does the Parliament make Laws? *How does the Parliament Control the Executive? What do the Committees of Parliament do? How does the Parliament Regulate itself? 	<ul style="list-style-type: none"> *On an outline map of India locate and label the states having bi-cameral legislature.
August	21	Ch 6. Judiciary Revision & Half Yearly Examination	<ul style="list-style-type: none"> *Why do we need an Independent Judiciary? *Appointment & Removal of Judges *Structure of the Judiciary *Jurisdiction of Supreme Court *Judicial Activism *Judiciary and Rights *Judiciary and Parliament 	<ul style="list-style-type: none"> *Explain how Judiciary assumes the roles and functions of the Legislature and Executive.
September	09	Ch7. Federalism	<ul style="list-style-type: none"> *What is Federalism? *Federalism in the Indian Constitution *Division of powers *Constitution of India *Federalism with a strong Central Government *Conflicts in India's Federal System *Demands for Autonomy *Role of Governors and President's Rule *Demands for New States *Interstate Conflicts *Special Provisions 	<ul style="list-style-type: none"> *Write notes on 'Quasi Federalism', 'Cooperative Federalism', 'Competitive Federalism'

		Ch8. Local Government	<ul style="list-style-type: none"> *Why Local Government? *Growth of Local Government in India *73rd and 74th Amendments *Implementation of 73rd and 74th Amendments 	*Prepare a chart on the importance of Local Bodies in the Modern Times
October	17	PART B: POLITICAL THEORY Ch 1. Political Theory: An Introduction Ch2. Freedom Ch 3. Equality	<ul style="list-style-type: none"> *What is Politics? *What do we Study in Political Theory? *Putting Political Theory to Practice *Why should we study Political Theory *The Ideal of Freedom *What is Freedom *The Sources of Constraints *Why do we need Constraints *Harm Principle *Negative and Positive Liberty *Freedom of Expression *Why does Equality matter *What is Equality? *Equality of Opportunities *Natural and Social Inequalities *Three Dimensions of Equality – Political, Social and Economic *How can we Promote Equality? *Establishing Formal Equality *Equality Through Differential Treatment *Affirmative Action 	<ul style="list-style-type: none"> *Do you think studying political theory is like studying mathematics? Give reasons for your answer. *Is there a relationship between freedom for the individual and freedom for the nation? Explain. *What is the relationship between equality and freedom ?

November	14	Ch 4. Social Justice Ch5. Rights	<ul style="list-style-type: none"> *What is Justice? *Equal Treatment for equals *Proportionate Justice *Recognition of Special Needs *Just Distribution *John Rawls' Theory of Justice *Pursuing Social Justice *Free Markets versus State Intervention <p>What are Rights?</p> <ul style="list-style-type: none"> *Where do Rights come from? *Legal Rights and the State *Kinds of Rights *Rights and Responsibilities 	<ul style="list-style-type: none"> *Prepare a report on the basic minimum requirements of people for living a healthy and productive life and the responsibility of governments in trying to ensure this minimum to all *On a Chart Paper – Discuss briefly some of the new rights claims which are being put forward in our country today – for example the rights of tribal people to protect their habitat and way of life, or the rights of children against bonded labour.
December	15	Ch6. Citizenship Ch 7. Nationalism Ch 8. Secularism	<ul style="list-style-type: none"> *What is meant by Citizenship *Full and Equal Membership *Equal Rights *Citizen and Nation *Universal Citizenship *Global Citizenship <p>Ch 7. Nationalism</p> <ul style="list-style-type: none"> *Introducing Nationalism *Nations and Nationalism *Territory *Shared Political Ideals *Common Political Identity *National self-Determination *Nationalism and Pluralism *Tagore's Critique of Nationalism <p>Ch 8. Secularism</p> <ul style="list-style-type: none"> *What is Secularism? *Secular State *The Western Model of Secularism *The Indian Model of Secularism 	<p>"Democratic citizenship is a project rather than an accomplished fact even in countries like India which grant equal citizenship". Discuss some of the issues regarding citizenship being raised in India today.</p> <ul style="list-style-type: none"> *Illustrate the limitations of Nationalism *Indian Secularism focuses on more than the Religion-State Separation. Explain.
January	18	Revision		
February	11	Revision and Annual Examination		

GURU GOBIND SINGH PUBLIC SCHOOL

Sector-5/B , Bokaro Steel City

CLASS - 11

SYLLABUS (PHYSICAL EDUCATION) – 2023-24

Month	Working Days	Chapter/Unit	Contents /Sub Topic In Details	Experiment / Project
June	09	Unit: 1 Changing Trends & Career in Physical Education	1.1. Concept, Aims & Objectives of Physical Education 1.2. Development of Physical Education in India – Post Independence 1.3. Changing Trends in Sports –playing surface, wearable gears and sports equipment, technological advancements 1.4. Career Options in Physical Education 1.5. Khelo-India and Fit-India Program	
July	20	Unit : 2 Olympism Value Education	2.1. Olympism-Concept and Olympics Values (Excellence, Friendship & Respect) 2.2. Olympic Value Education - Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind 2.3. Ancient and Modern Olympics 2.4. Olympics-Symbols, Motto, Flag, Oath and Anthem 2.5. Olympic Movement Structure-IOC, NOC, IFS, Other members	Practical – 1 : Fitness tests administration. (SAI Khelo India Test)
		Unit : 3 Yoga	3.1. Meaning & Importance of Yoga 3.2. Introduction to Ashtanga Yoga 3.3. Introduction to Yogic Kriyas (Shat Karma) 3.4. Pranayama and its types. 3.5. Active Lifestyle and stress management through Yoga	
August	21	Unit : 4 Physical Education & Sports for CWSN(Children with Special Needs-Divyang)	4.1. Concept of Disability and Disorder 4.2. Types of Disability, its causes & nature(Intellectual disability, Physical disability) 4.3. Disability Etiquettes 4.4. Aim & Objective of Adaptive Physical Education 4.5. Role of various professionals for children with special needs(Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator)	
		Unit : 5 Physical Fitness, Health and Wellness	5.1. Meaning and Importance of Wellness, Health and Physical Fitness 5.2. Components/Dimensions of Wellness, Health and Physical Fitness 5.3. Traditional Sports & Regional Games for Promoting wellness	
September	09	Unit : 5 Physical Fitness, Health and Wellness	5.4. Leadership through Physical Activity and Sports 5.5. Introduction of First Aid - PRICE	
Half Yearly Examination				
October	17	Unit : 6 Test , Measurement & Evaluation	6.1. Define Test, Measurements and Evaluation 6.2. Importance of Test, Measurement and Evaluation in Sports 6.3. Calculation of BMI, Waist Hip Ratio, Skin fold measurement (3-site) 6.4. Somato Types (Endomorphy, Mesomorphy & Ectomorphy) 6.5. Measurements of health-related fitness	Practical – 2 : Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
November	14	Unit : 7 Fundamentals of Anatomy, Physiology in Sports	7.1. Definition and Importance of Anatomy and Physiology in exercise and sports 7.2. Functions of Skeletal system, Classification of Bone and Types of Joints 7.3. Properties and Function of Muscular System 7.4. Structure and Function of Circulatory System and Heart 7.5. Function and Structure of Respiratory system	

December	15	Unit : 8 Fundamentals of kinesiology and Biomechanics in Sports	8.1. Definition and Importance of Kinesiology and Biomechanics in sports 8.2. Principles of Biomechanics 8.3. Kinetics and kinematics in Sports 8.4. Types of Body Movements- Flexion, Extension, Abduction, Adduction, rotation, Circumduction, Supination & pronation 8.5. Axis and Planes-Concept and its application in body movements	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. Definition & Importance of Psychology in Physical Education & Sports 9.2. Development characteristics at Different Stages of Development	
January	18	Unit : 9 Psychology & Sports	9.3. Adolescent Problems & their Management 9.4. Team Cohesion and Sports 9.5. Introduction to Psychological Attributes : Attention Resilience and Mental Toughness	
		Unit : 10 Training and Doping in Sports	10.1. Concept and Principles of Sports Training 10.2. Training load : Over Load, Adaptation and Recovery 10.3. Warming-up & Limbering Down - Types, Method & Importance 10.4. Concept of Skill, Technique, Tactics & Strategies 10.5. Concept of Doping and its disadvantages	
February	11	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 – XI

CBSE Physical Education Class XI Text Book

<https://cbseacademic.nic.in/web material/Manuals/PhysicalEducation11 2022.pdf>

Subject: Painting
MONTHLY SYLLABUS BREAK-UP FOR 2023-24

MONTH	W.D	CHAPTER/TOPIC	CONTENT/SUB TOPIC IN DETAIL	EXPERIMENT/PRACTICAL
June	09	INTRODUCTION ABOUT SUBJECT TONE. (PENCIL SHADING)	THE OBJECT OF INCLUDING THE HISTORY OF INDIAN ART FOR THE STUDENTS IS TO FAMILIARIZE THEM WITH THE VARIOUS STYLES AND MODES OF ART.	PENCIL SHADING
July	20	PRE HISTORIC ROCK PAINTING, BHIMBETKA	THE STUDY OF PRE-HISTORIC ROCK PAINTING ARE EQUIVALENT TO THE JOURNEY BACK TO STONE AGE.	STILL LIFE IN PENCIL SHADING
August	21	INDUS VALLEY CIVILIZATION	1. DANCING GIRL 2. MALE TORSO 3. MOTHER GODDESS 4. BULL SEAL	STILL LIFE
September	09	BUDDHIST, JAIN AND HINDU ART	1. LION CAPITAL 2. CHAURI BEARER 3. BUDDHISTVA 4. JANIST	NATURE STUDY
October	17	AJANTA CAVE PAINTING & ARTISTIC ASPECT OF INDIAN TEMPLES.	1. PADMAPANI BODHISATTVA 2. MAR VIJAY AJANTA 3. DESCENT OF GANGA 4. TRIMURTEE	HUMAN ANATOMY
November	14	ARTISTIC ASPECTS OF INDO-ISLAMIC ARCHITECTURE	1. TAJ MAHAL 2. QUTAB MINAR 3. GOL GUMBAJ, BIJAPUR	COMPOSITION
December	15	-----	PORTFOLIO ASSESSMENT SUBMISSION OF PRACTICAL FILE	NATURE STUDY
February	11		Revision	

MONTHLY SYLLABUS BREAK-UP 2023-24

SUBJECT- BHARATNATYAM DANCE

CLASS - XI

MONTH	W.D	TOPIC	CONTENTS IN DETAIL	PRACTICAL
June	09	Bhoomi pranam, Tatta adavu, Chatusra ekam and chatushra tripuit taal with hasta kriya.	Definition of tatta adavu, pudhpanjali, alaripu, jatiswaram, notation of chatusra ekam and chatusra tripuit taal.	Tatta adavu steps no. 1 to 8.
July	20	Natta adavu and pakka adavu.	Themes of TRamayana, definition of shabdham, varnam and kirtanam.	Natta adavu steps no. 1 to 8. Pakka adavu 1 to 4.
August	12	Korvai chatushra rupakam taal with hasta kriya.	Surpanakha prasanga, sitaharan, choodamani opradan.	Korvai 1 and 2.
September	09	Kuditta mettu adavu, aadi taal with hasta kriya.	Defination of padam, asta padi, jati, tillana, mallari and koutavam. Story of eklavya from mahabharatha.	Kuditta mettu adavu 1 to 4.
October	17	Etta adavu, introduce with tatti mettu adavu.	Draupadi swayamvar, the game opf dice and the vastra haran of Draupadi, the exit of pandavas meeting with Krishna, the storuy of Karna.	Etta adavu 1 to 4.
November	14	TGatti mettu adavu	The bhagwat geeta, a brief history of Indian Dance, costume and jewelleryn of Bharatnatyam dance	Tattimettu adavu 1 to 5.
December + January	15 + 18	Revisions + REVISIONS FINAL EXAMINATION	Revisions	Revisions of all adavus.
February	11	REVISIONS FINAL EXAMINATION		

MONTHLY SYLLABUS BREAK-UP 2023-24

SUBJECT- KATHAK DANCE

CLASS - XI

MONTH	W.D	TOPIC	CONTENTS IN DETAIL	PRACTICAL
June	09	Practice of basic standing position and various patterns of tatkaar.	Definition of nritya, nritya, natya, tandava, lasya, anga, pratyanga and upanga.	Tatkaar with defferent layas
July	20	Shikhar, Madhya, talhasta chakra, ardha feri and deffent chakkars.	Sita haran, chudamani pradaan, a brief history of Indian dance.	Defferent moovments of Kathak
August	12	Padant of teentaal with hasta kriya, Guru vandana and thaata.	Sita swayamvar, Ramchandra's vanvas yatra, soorpanakha prasanga.	Guruvandana and Thaata teentaal.
September	09	Natwari tora and tukjra,	Story of eklavya, Draupadi swayamvar, pandavas vanvas yatra	Natwari tora and tuikra teentaal
October	17	Kavitta teentaal	The game of dice and vastraharan of Draupadi, Story of Karna history of kathak dance	Kavitta teentaal.
November	14	Paranjodi amad, tihai.	Kathanak of kaalia daman govardhan leela, panghat leela, notation of teen taal and jhaptaal.	Paranjori amad and tihai teentaal
December + January	15 + 18	Gatnikas teentaal + REVISION; FINAL EXAMINATION	Definition of kavitta, dadra, tarana, etc.	Gatnias teentaal.
February	11	REVISION; FINAL EXAMINATION		