

BHARATIYA VIDYA BHAVAN VIDYASHRAM
K.M MUNSHI MARG, JAIPUR
SYLLABUS 2023-2024

Class: XII

Subject: English Core

Prescribed Books:1. Flamingo (NCERT)

2. Vistas (NCERT)

Month	Name of the topic	Learning Outcome
April	<p>Flamingo:</p> <p>Prose</p> <ul style="list-style-type: none"> • The Last Lesson <p>Poetry</p> <ul style="list-style-type: none"> • My Mother at Sixty-six <p>Vistas:</p> <ul style="list-style-type: none"> • The Third Level 	<p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • analyse in detail how a key individual, event or idea is introduced in the text. • develop their optimistic attitude towards life amidst many struggles. • familiarize themselves with specific background information of Alphonse Daudet / history of France • make connections between similar situations in different storylines/life experiences like Indians under British imperialism. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • grasp the theme and meaning of the poem. • read the poem with proper tone and rhyme and develop an interesting poetry. • to strengthened their vocabulary. • develop their analyzing skills • know more about Kamla Das, her writing style and her personal life. • learn more about the diversity in literature across different lands and different subject matter used by authors. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • summarize the story in a gap-filling exercise. • recall the important points of the story through a questionnaire, fill-in, reference to the context and MCQ quiz. • learn more about the author's style of writing and the touch psychological complexity. • learn more on how war and insecurities affect people and their psychology. • infer the meaning of some important statements in the story writing a short note on them.

	<ul style="list-style-type: none"> • The Tiger King <p>Notice Writing, Letter to the Editor (giving suggestions or opinion on issues of public interest)</p>	<ul style="list-style-type: none"> • debate and express their views on Charlie's visit to the Third level. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • uncover motives, absorb didactics. • add more to their treasure of vocabulary, know more about South Indian Literature and its contribution. • learn about the then set of cultures spread across the realm • learn about the royal Indian background, information of the author/history of cruel insensitive kings who found pleasure in hunting and killing innocent animals. • understand the importance of becoming sincere and trustworthy in thought and action. • develop an understanding, be responsible, tolerant and have respect for class identities – democratic citizenship. <ul style="list-style-type: none"> • analyze any NOTICE shown to them on the basis of the knowledge imparted. • Frame notice about any event. • identify important information in any given notice. • Use appropriate style and format to write a NOTICE effectively.
<p>May</p>	<p>Flamingo:</p> <p>Prose</p> <ul style="list-style-type: none"> • Lost Spring <p>Invitation -Formal/Informal Invitation and Reply</p>	<p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • sensitize themselves with the problems of child labour. • integrate information as well as words to develop a coherent understanding of the topic. • sensitize and help themselves in identifying and making connections between experiences where one finds contrast between dreams and realities of life. • engage in independent reflection and enquiry. <ul style="list-style-type: none"> • express their ideas cohesively, completely, fluently and spontaneously with expressions, grammar usage and relevant vocabulary for a hospitable announcement of an event.

<p>July</p>	<p>Vistas:</p> <ul style="list-style-type: none"> • Journey to the End of the Earth <p>Flamingo:</p> <p>Prose</p> <ul style="list-style-type: none"> • Deep Water <ul style="list-style-type: none"> • The Rattrap <p>Poetry</p> <ul style="list-style-type: none"> • Keeping Quiet 	<p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • learn appreciating, reasoning and justifying; Extracting relevant information; drawing comparisons with the help of contrasting images. • Unfold their logical thinking skills. • their vocabulary will be riched • learn that the climate is changing drastically and it's time to be alarmed. • learn more about the biodiversity and wildlife of Antarctica. • know more about Tishani Doshi and her writing style. • get inspiration to write travelogue in the similar fashion. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • enhance their creative writing and decision making skills • develop their listening skills • write formal reports for school magazines/events. • know more about the author, human rights and campaigns. • sensitize themselves about bullying and learn to speak against it. • add more words to their treasure of vocabulary. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • effectively provide a synopsis of the story. • Analyze the values and thought process of the story. • develop an intellectual psychology about the functioning of the world. • appreciate the significance of developing personal fears yet rising above them to savour real liberty. • enrich their vocabulary. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • learn to appreciate poetry and read aloud with proper intonation. • prepare for poetic forms and adapt them with the figures of speech, rhyme and rhythm.
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	<ul style="list-style-type: none"> • A Thing of Beauty <p>Report Writing, Job Application- application for a job with bio data or resume</p>	<ul style="list-style-type: none"> • understand the idea that the moments of silence break shackles of discrimination, hatred, violence and create an exotic moment of togetherness. • understand that speech is silver and silence is gold. It's high time for self-introspection. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • learn that a thing of beauty is a joy forever. It transcends time. It will never fade away. Beauty has the power to remove darkness and negativity and helps us survive the dearth of noble nature or when surrounded by evilness. • understand Keats' extraordinary sense-perception. Keats perceives beauty through his natural and spontaneous application of senses. He derives great aesthetic delight at the sight of objects of nature. • develop skills of creativity, imagination and aesthetic sense. • realise the social issue that there has been a degradation of aesthetic sense among people in their busy monotonous schedule of life The learners will be able to- • discuss the purpose of various reports. • Describe the kind of information to be included in specific reports and identify tips for writing a clear, concise, and useful report. • to recognize and address patterns and trends and be able to explain how the tone of a report can affect worker morale and motivation. • To organise their thoughts and express freely • develop an interest towards writing , thus enhance their writing skills
<p>August</p>	<p>Flamingo:</p> <p>Prose</p> <ul style="list-style-type: none"> • Indigo 	<p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • learn that the leadership qualities of Mahatma Gandhi secured justice for oppressed people by following the path of nonviolence. • learn that the exploitation of Indigo sharecroppers at the hands of cruel British planters highlights the unequal economic system that existed during British colonialism. • along with the political and economical solution Gandhi ji also brought social solution by making arrangements for education, health and hygiene of poor families and taught them a lesson of self-reliance. • understand and value the contribution made by ordinary people to the freedom movement.

	<p>Vistas:</p> <ul style="list-style-type: none"> • The Enemy <p>Article</p>	<p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • familiarize themselves with specific background of political enmity. • identify and make connections between similar situations in own life experiences where our prejudices often hinder our human compassion and empathy for a political enemy. • understand the significance of professional ethics and social obligation in sensitive times. • develop skills of creativity, imagination and aesthetic sense. • to develop an interest towards writing. To enhance their planning and organizing techniques • to research on any subject and derive information from facts and present them in the form of a written piece • the interpreting and evaluative skills would be strengthened
<p>September</p>	<p>Flamingo:</p> <p>Prose</p> <ul style="list-style-type: none"> • Poets and Pancakes <p>Vistas:</p> <ul style="list-style-type: none"> • On the Face of It <p>Comprehension Passages</p> <p>Revision</p>	<p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • learn to document the main events, ideas. • identify the moral issues raised. Perceive the overall meaning and organization of the text • develop the skills of reasoning. • select and extract relevant information, using reading skills of skimming and scanning. • specifically develop the ability to be original and creative in interpreting opinion, develop the ability to be logically persuasive in defending one's opinion and making notes based on a text. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • fight out their loneliness, depression and disappointment. • accept the physically challenged people positively in their life and expand their social interaction • build up optimism and self-confidence • ascertain the kind of issues raised through someone's life and struggle
<p>October</p>	<p>Flamingo:</p> <p>Prose</p>	<p>By the end of this lesson, students will be able to-</p>

	<ul style="list-style-type: none"> • The Interview <ul style="list-style-type: none"> • Going Places <p>Poetry</p> <ul style="list-style-type: none"> • A Roadside Stand <ul style="list-style-type: none"> • Aunt Jennifer's Tigers 	<ul style="list-style-type: none"> • ascertain the kind of issues raised through someone's life and struggle • identify women as marginalized community, the discrimination they face and their struggle against it • to figure out the complexities of human relationships, impact on impressionable minds. • identify the central/main point and supporting details, etc., to build communicative competence in various lexicons of English <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • familiarize themselves with specific background information of adolescents and adolescent fantasizing. • they would identify and make connections between similar situations in own life experiences where each of us suffers dreams are not rooted to the ground of common sense and tend to be exotic, glamorous and sophisticated. • sensitize themselves, help themselves in identifying and making connections between experiences where one finds contrast between dreams and realities of life. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • understand the composing style and subject matter of Robert Frost. • dive deep into the philosophical and psychology aspect of life, which again will stimulate their intellectual curiosity. • enrich their treasure of vocabulary with more words. • learn new phrases. • learn to appreciate poetry and read aloud with proper intonation. • prepare for poetic forms and adept them with the figures of speech, rhyme and rhythm. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • appreciate poetry and read aloud with proper intonation. • to prepare the students for poetic forms and adept them with the figures of speech, rhyme and rhythm. • realise the constraints of married life that a women experiences in a patriarchal society. Therefore, aunt builds an alternative world of freedom- a world that she longs for.
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	<p>Vistas:</p> <ul style="list-style-type: none"> • Memories of Childhood 	<ul style="list-style-type: none"> • understand the form of the poem: 'Three Quatrains' (three four lined stanzas). • learning the 'Symbolism' technique used in poem where Aunt Tigers, ring, wedding band, and bright topaz have been used as symbols. <p>By the end of this lesson, students will be able to-</p> <ul style="list-style-type: none"> • to sensitize themselves to the issues of estranged cultural ties. • make connections between similar situations in different storylines/life experiences. • to initiate the role of an ambassador in the world ridden with racial and class differences. • To recognize the universal/global theme of inequality.
November	Revision	

Syllabus for Unit Test	<p>Flamingo:</p> <ul style="list-style-type: none"> • The Last Lesson • My Mother at Sixty-six <p>Vistas:</p> <ul style="list-style-type: none"> • The Third Level <p>Notice Writing</p>
Syllabus for PT1	<p>Flamingo:</p> <ul style="list-style-type: none"> • The Last Lesson • Lost Spring • My Mother at Sixty-six • Keeping Quiet <p>Vistas:</p> <ul style="list-style-type: none"> • The Third Level • The Tiger King <p>Notice Writing, Invitations, Letter to the Editor</p>
Syllabus for Half Yearly/P T 2	<p>Flamingo:</p> <ul style="list-style-type: none"> • The Last Lesson • My Mother at Sixty-six • Lost Spring • Keeping Quiet • A Thing of Beauty • Deep Water • The Rattrap • Indigo • Poets and Pancakes

	<p>Vistas:</p> <ul style="list-style-type: none"> • The Third Level • The Tiger King • Journey to the End of the Earth • The Enemy • On the Face of It <p>Reading Comprehension through Unseen Passages Notice Writing, Invitation, Letter to the Editor, Report Writing, Article, Job Application + Syllabus of PT1</p>
<p>Syllabus for Pre-Board 1</p>	<ul style="list-style-type: none"> • The Interview • Going Places • A Roadside Stand • Aunt Jennifer's Tigers • Memories of Childhood + Syllabus of PT1 and PT2
<p>Syllabus for Pre-Board 2</p>	<p>Entire Syllabus</p>

Mathematics

Month	Chapter	Activity	Learning Outcome/ students will be able to
April	Matrices		define matrices. add, subtract and multiply the matrices. understand different type of matrices solve word problems based on matrix multiplication define symmetric and skew symmetric matrix
	Determinants		define determinants understand minor and cofactor find inverse using Matrix method understand the concept of consistency and inconsistency of system of linear equation solve system of linear equation using Matrix method
MAY	Inverse Trigonometry		range domain and principal value of inverse trigonometric functions
JULY	Continuity and differentiability	<ul style="list-style-type: none"> To find analytically that if f is differentiable at $x=c$ then it is also continuous at that point. 	understand the concept of continuity and differentiability differentiate implicit, logarithmic and parametric function solve problems based on second order derivatives
	Application of derivatives	<ul style="list-style-type: none"> To understand the concepts of decreasing and increasing functions. To construct an open box of maximum volume from given rectangular sheet by cutting equal squares from each corner. To verify that amongst all the rectangles of same perimeter, the square has the maximum area. 	understand the concept of derivative as a rate measurer understand increasing and decreasing functions understand the concept of maxima and minima, first order derivative test and second order derivative test to solve simple word problems based on these test
AUGUST	Integration		understand the concept of substitution method integration of trigonometric functions partial fraction method, by parts integration understand definite integration properties of definite integration
	Application of integration	<ul style="list-style-type: none"> To evaluate the area enclosed by the circle $x^2+y^2 = a^2$ using integration and verify it. 	to calculate area under one curve and two curves

September	Differential equations	<ul style="list-style-type: none"> Application of differential equations. In a bank Principal increases continuously at the rate 5% per year. In how many years Rs 1000 double itself? 	understand the concept of order and degree to solve differential equations by separation of variable method.
October	Diff equation continued		to solve homogeneous differential equation to solve linear differential equation
	Vectors	<ul style="list-style-type: none"> Application of dot product of vectors - To verify that the angle in a semicircle is a right angle. 	to understand the concept of unit vector, section formula dot and cross product
	3-d geometry		to understand the concept of direction cosine and ratio equation of line, shortest distance between two skew lines
November	L.P.P.		to solve different linear inequality problems feasible solution under two or three inequalities
	Probability	<ul style="list-style-type: none"> To explain the computation of conditional probability of given event A when event B has already occurred through an example of throwing a pair of dice. 	conditional probability independent events to understand the concept of Bay's theorem probability distribution of random variable and mean
	Relation and function	<ul style="list-style-type: none"> To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive 2. To demonstrate that the function $f(x) = 2x$ is one but not onto if $f: N \rightarrow N$, also $f(x) = 2x$ is one-one and onto if $F: R \rightarrow R$. 	to understand the concept of reflexive symmetric and transitive relation one-one onto functions
December	Revision		

UT: Matrices, determinants, inverse Trigonometry

PT-1: Matrices, determinants, inverse Trigonometry, continuity and differentiability, Application of derivatives

Term - 1 Exam: Matrices, determinants, inverse Trigonometry, continuity and differentiability, Application of derivatives, Integration, Application of integration

PRE-BOARD: Complete Syllabus

APPLIED MATHEMATICS

Month	Chapter	Activity	Learning Outcome (STUDENTS WILL BE ABLE TO)
APRIL	UNIT – ALGEBRA - MATRIX - DETERMINANTS UNIT - CALCULUS - DIFFERENTIATION AND ITS APPLICATION - HIGHER ORDER THE DERIVATIVES - APPLICATOIN OF DERIVATIVES		DEFINE MATRIX IDENTIFY DIFFERENT KINDS OF MATRICES WRITE TRANSPOSE OF GIVEN MATRIX APPLY PROPERTIES OF INVERSE OF MATICES FORMULATE REAL LIFE PROBLEMS INTO SYSTEM OF SIMULTANEOUS LINEAR EQUATON AND SOLVED IT FIND DETERMINANTS OF SQUARE MATRIX DESCRIBE THE BASIC CONCEPT OF NUMERICAL INEQUALITIES UNDERSTAND AND WRITE NUMERICAL INEQUALITIES. DISTINGUISH BETWEEN UPSTREAM AND DOWNSTREAM. EXPRESS THE PROBLEM IN THE FORM OF AN EQUATION
MAY	- MARGINAL COST AND MARGINAL REVENUE USING DERIVATIVES - INCREASING AND DECREASING FUNCTIONS - MAXIMA AND MINIMA		DETERMINES THE TIME TAKEN BY TWO OR MORE PIPES TO FILL OR EMPTY THE TANK COMPARE THE PERFORMANCE OF TWO PLAYER W.R.T. TIME, DISTANCE. UNDERSTAND THE RULE OF ALLIGATIONTO PRODUCE A MIXTURES AT A GIVEN PRICE. APPLY RULE OF ALLIGATION. APPLY ARITHMETIC OPERATION USING MODULAR ARITHMETIC RULERS
JULY	INTEGRATION AND ITS APPLICATION - INDEFINATE INTEGRALS - DEFINE INTEGRALS AS AREA UNDER THE CURVE - APPLICATION OF INTEGRATION - DIFFERENTIAL EQUATION AND MODELING	PLOT THE GRAPHS OF FUNCTION ON AND STUDY THE GRAPH TO FIND OUT THE POINT OF MAXIMA/ MINIMA.	DETERMINE THE HIGHER AND SECOND ORDER DERIVATIVESUNDERSTAMD DEIFFERENTIATION OF PARAMATARIC AND IMPLICIT FUNCTIONS WRITE THE EQUATION TANGENT AND NORMAL TO A CURVE AT A GIVEN POINT FIND MARGINAL COST AND MARGINAL REVENUE DETERMINE WHEATHER A FUCNTION IS INCREASING OR DECREASING DERTERMINE CRITICAL POINT OF THE FUNCTION SOLVED APPLIED PROBLEMS UNDERSTAND AND DETERMINE INDEFINITE OF SIMPLE FUNCTION AS ANTI-DERIVATIVE EVALUATE INDEFINATE INTEGRALS OF SIMPLE ALGEBRAIC FUNCTION APPLY

			PROPERTIES OF DEFINITE INTEGRALS TO SOLVE THE PROBLEM IDENTIFY THE REGION REPRESENTING C.S. AND P.S GRAPHICALLY
AUGUST	<p>UNIT – NUMBER, QUALIFICATION AND NUMERICAL APPLICATION</p> <ul style="list-style-type: none"> - NUMERICAL INEQUALITIES - BOAT AND STREAM <p>UNIT - NUMERICAL QUALIFICATION AND NUMERICAL APPLICATION</p> <ul style="list-style-type: none"> - PIPES AND CISTERNE - RACES AND GAMES - ALLIGATION AND MIXTURE - MODULO 		RECOGNIZE A DIFFERENTIAL EQUATION. FORMULAE DIFFERENTIAL EQUATION. APPLY THE DIFFERENTIAL EQUATION TO SOLVE GROWTH AND DECAY MODELS
SEPTEMBER	<p>PROBABILITY DISTRIBUTION</p> <ul style="list-style-type: none"> - PROBABILITY DISTRIBUTION - MATHEMATICAL EXPECTATION - VARIANCE - BINOMIAL DISTRIBUTION - POISSON DISTRIBUTION - NORMAL DISTRIBUTION 	PROBABILITY AND BINOMIAL ROLL SIMULATION	<p>UNDERSTAND THE CONCEPT OF RANDOM VARIABLES AND ITS PROBABILITY DISTRIBUTION.</p> <p>APPLY ARITHMETIC MEAN OF FREQUENCY DISTRIBUTION TO FIND THE EXPECTED VALUE OF A RANDOM VARIABLE CALCULATE THE VARIANCE AND S.D. OF A RANDOM VARIABLE. EVALUATE THE MEAN AND VARIANCE OF POISSON DISTRIBUTION. EVALUATE THE MEAN, VARIANCE AND S.D OF BINOMIAL DISTRIBUTION.</p> <p>EVALUATE VALUE OF STANDARD NORMAL VARIATE</p>
OCTOBER	<p>INFERENCE STATISTICS - POPULATION AND SAMPLE - PARAMETER AND STATISTICS INTERFERENCE - T- TEST (ONE SAMPLE T- TEST AND TWO INDEPENDENT GROUPS T- TEST)</p> <p>INDEX NUMBER AND TIME BASE DATA</p> <ul style="list-style-type: none"> - TIME SERIES - SECULAR TREND 	<p>COLLECT THE DATA ON WEATHER, PRICE, INFLATION, AND POLLUTION ANALYZE THE DATA AND MAKE MEANINGFUL INFERENCE. COLLECT DATA FROM NEWSPAPERS ON TRAFFIC, SPORTS ACTIVITIES AND MARKET TRENDS AND STUDY THE FUTURE TRENDS.</p>	<p>DRAW A REPRESENTATIVE SAMPLE USING AND SYSTEMATIC RANDOM SAMPLING. DIFFERENTIATE BETWEEN POPULATION AND SAMPLING</p> <p>EXPLAIN THE RELATIONSHIP BETWEEN PARAMETERS AND STATISTICS</p> <p>INTERPRET THE CONCEPT OF STATISTICAL SIGNIFICANCE AND STATISTICS</p> <p>DIFFERENTIATE BETWEEN NULL AND ALTERNATE HYPOTHESIS</p> <p>TEST NULL HYPOTHESIS AND MAKE INFERENCE USING T - TEST STATISTIC FOR ONE GROUP/ TWO INDEPENDENT GROUPS</p> <p>IDENTIFY TIME SERIES AS CHRONOLOGICAL DATA.</p> <p>SOLVE PRACTICAL PROBLEMS BASED ON STATISTICAL DATA AND INTERPRET THE</p>

			RESULT UNDERSTAND THE LONG TERM TENDENCY.
NOVEMBER	FINANCIAL MATHEMATICS - PERPETUITY, SINKING FUNDS - CALCULATION OF EMI LINEAR PROGRAMMING - MATHEMATICAL FORMULATION - GRAPHICAL SOLUTION	CHECK OUT THE LOCAL NEWSPAPER AND CUT OUT EXAMPLES OF INFORMATION DEPICTED BY GRAPHS. DRAW YOUR OWN CONCLUSION FROM THE GRAPH AND COMPARE IT WITH THE ANALYSIS GIVEN IN THE REPORT. ANALYSIS OF POLLUTION MIGRATION DATA - POSITIVE AND NEGATIVE INFLUENCE ON URBANIZATION	EXPLAIN THE CONCEPT OF PERPETUITY AND SINKING FUND. CALCULATE EMI USING VARIOUS METHOD. INTERPRET COST, RESIDUAL AND USEFUL LIFE AN ASSET FROM THE GIVEN INFORMATION FORMULA LINEAR PROGRAMMING PROBLEM. IDENTIFY AND FORMULATE DIFFERENT TYPES OF LPP.

SYLLABUS

UT	MATRIX , DETERMINANTS , DIFFERENTIATION AND ITS APPLICATION (Rate of Change of a Quantity)
PT 1	MATRIX, DETERMINANTS, BOAT AND STREAM, NUMERICAL INEQUALITIES
TERM 1	MATRIX, DETERMINANTS, NUMBER, QUALIFICATION AND NUMERICAL APPLICATION, DIFFERENTIATION AND ITS APPLICATION, INTEGRATION AND ITS APPLICATION, DIFFERENTIAL EQUATIONS AND MODELING
PT 2	PROBABILITY AND INTERFERENTIAL STATISTIC
PRE BOARD	COMPLETE SYLLABUS

PHYSICS

MONTH	NAME OF THE TOPIC	ACTIVITY	LEARNING OUTCOMES
APRIL	Ch-1: Electric Charges and Fields Ch-2: Electrostatic Potential and Capacitance		able to State the mathematical definitions of Coulomb force, electric field, electrostatic potential and voltage. able to Select relevant properties from electric charge and fields to predict the outcome of a given electrostatic interaction.
MAY	Ch-2: Electrostatic Potential and Capacitance Ch-3: Current Electricity		able to Distinguish between static electricity and the current electricity. able to analyse complex DC circuits qualitatively and quantitatively including applications of Ohm's law and Kirchoff's laws. Able to describe magnetic field and field lines
JULY	Ch-4: Moving Charge and Magnetism Ch-5: Magnetism and matter	1.To determine resistivity of two / three wires by plotting a graph for potential difference versus current 2.To find resistance of a given wire using metre bridge. 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.	able to describe how magnetism is produced .
AUGUST	Ch-6: Electromagnetic Induction Ch-7: Alternating Current	5.To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.	able to Solve challenging problems using interconnected resistance, capacitance, inductance

SEPTEMBER	Ch–8: Electromagnetic Waves Ch–9: Ray optics and Optical Instruments	6. To find the value of v for different values of u in case of a concave mirror and to find the focal length 7. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 8. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.	able to differentiate among different 'electromagnetic wave' able to provide examples of electromagnetic waves in use able to explain properties of light
OCTOBER	Ch–10: Wave Optics Ch–11 Dual Nature of Radiation and Matter CH–12: Atoms	9. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.	able to describe, light as a wave and a particle. able to analyse atomic structure.
NOVEMBER	Ch–13: Nuclei Ch–14: Semiconductor Electronics		able to understand basic working of common semiconductor devices used in electronics. able to explain the operation of a PN diode and its use in AC rectification
DECEMBER	Revision		

Syllabus for unit test	:	Ch–1: Electric Charges and Fields , Ch–2: Electrostatic Potential and Capacitance
Syllabus for P1	:	Syllabus of P1 and Ch–3: Current Electricity Ch–4: Moving Charge and Magnetism
Syllabus for half yearly	:	Syllabus of P1 and P2 Ch–5: Magnetism and matter Ch–6: Electromagnetic Induction Ch–7: Alternating Current Ch–8: Electromagnetic Waves Ch-9: Ray optics and Optical Instruments
Syllabus for Pre Board	:	Complete syllabus

CHEMISTRY

Month	Unit no. / Name of unit	Activity	Learning Outcomes
April	Unit 1- Solution Unit-2 Electrochemistry (Introduction)		Unit 1- Knowledge of variation of colligative properties in solutions.
May	Unit 2- Electrochemistry		Unit 2 – Knowledge of basic difference between electrolysis and electrochemical process.
July	Unit 3- Chemical Kinetics Unit 4- d & F block elements	Preparation of colloidal solution.	Unit 3-Knowledge of factors affecting rate of reaction and concept of Catalyst. Unit 4-Knowledge and understanding of periodic trends and general properties of d- and f- block elements.
August	Unit 5- Coordination Chemistry Unit 6- Haloalkanes and Haloarenes. Unit 07- Alcohol , phenol & ether (introduction)	Paper Chromatography Redox titration	Unit 5-Knowledge of IUPAC nomenclature, isomerism, nature of bonding, stability and applications of co-ordination compounds. Unit 06-Knowledge of IUPAC nomenclature, stereo chemistry, physical and chemical properties, reaction mechanisms.
September	Revision for term 1 exams	Redox Titration	
October	Unit 7- Alcohol Phenol and ethers Unit 8– Aldehyde ketone and carboxylic acids	Functional group detection	Unit 7- Knowledge of IUPAC name, Physical and chemical properties Unit 8--Knowledge of IUPAC nomenclature, physical and chemical properties, reaction mechanisms, applications of carbonyl compounds
November	Unit 9- Amines	Salt Analysis (revision)	Unit 9-Knowledge and understanding of basic nature of amines and their application as reaction intermediates.

	Unit-10 Biomolecules Revision for pre- board 1		Unit 14-Knowledge of various classes of Biomolecules and their specific uses in biological system.
December	Revision for pre-board1		

Biology

Month	Chapter Number, Name and Topics.	Learning outcomes.	Practical/ Demonstration
April	<p>Chapter-1: Sexual Reproduction in Flowering Plants Flower structure; Development of male and female gametophytes; 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 modes- apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation.</p>	<p>Students would be able to know about components of flower and their role in reproduction.</p> <p>Student would appreciate the differences between development and structure of male and female gametophyte.</p> <p>Students would develop basic understanding of apomixes and polyembryony.</p>	<p>Practical :Prepare a temporary mount to observe pollen germination</p> <p>Controlled pollination - emasculation, tagging and bagging.</p> <p>Flowers adapted to pollination by different agencies (wind, insects)..</p> <p>Pollination adaptations</p>
April/ May	<p>Chapter-2: Human Reproduction Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis- spermatogenesis & oogenesis; Menstrual cycle; Fertilisation embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).</p>	<p>Students should be able to know about human reproductive organs.</p> <p>Student should appreciate the differences between male and female gametes.</p> <p>Students would analyse the events of menstrual cycle, embryonic development and parturition.</p>	<p>Practical:</p> <p>Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).</p> <p>T.S. of blastula through permanent slides (Mammalian).</p> <p>Meiosis in onion bud cell or grasshopper testis through permanent slides.</p>

	<p>Chapter-3: Reproductive Health Need for reproductive health and prevention of sexually transmitted diseases (STD); 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).</p>	<p>Students should be able to compare different types of contraceptive methods.</p> <p>Student would be able to explain the different types of ART.</p> <p>Students would apply knowledge to guide others about Reproductive health</p>	<p>Practical: Pollen germination on stigma through a permanent slide or scanning electron micrograph.</p> <p>Demonstration: Different types of contraceptive devices.</p>
July	<p>Chapter-4: Principles of Inheritance and Variation Mendelian Inheritance; Deviations from Mendelism- Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotrophy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination in humans, birds, honey bee; Linkage and crossing over; SSex-linked inheritance - Haemophilia, Colour blindness; Mendelian disorder in humans - Thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.</p>	<p>Students would be able to explain different types of inheritance experiments and laws.</p> <p>Student would appreciate the differences between chromosomal and Mendelian disorders.</p> <p>Students would develop a basic understanding of blood grouping, pleiotrophy etc.</p>	<p>Practical:</p> <p>Mendelian inheritance uses seeds of different colours and sizes of any plant.</p> <p>Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.</p>
	<p>Chapter-5: 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 genome project; DNA fingerprinting.</p>	<p>Students would be able to explain features of DNA and its replication</p> <p>Student should appreciate the differences between RNA and DNA.</p> <p>Students should have a basic understanding of the Central dogma of protein synthesis, human genome projects and DNA fingerprinting.</p>	<p>Practical:</p> <p>Prepare a temporary mount of onion root tip to study mitosis</p> <p>Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.</p>

<p>August</p>	<p>Chapter -6 Evolution</p>	<p>Students would be able to explain various theories of evolution and evidence of evolution</p> <p>The student should appreciate the contribution of Darwin's natural selection theory</p> <p>Students should have a basic understanding of the evolution of plants and vertebrates, especially humans</p>	<p>Practical</p> <p>Flash cards models showing examples of homologous and analogous organs.</p>
<p>September</p>	<p>Chapter-7: Human Health and Diseases Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology - vaccines; Cancer, HIV and AIDs; adolescents, drug and alcohol abuse.</p>	<p>Students should be able to know about different types of pathogens, diseases caused by the mtheir symptoms, treatment and prevention.</p> <p>The student should appreciate the differences between different types of drugs Sedatives, Hallucinogens, and Stimulants and their effects.</p> <p>Students would develop basic understanding of cancer, malaria and HIV</p>	<p>Common disease causing organisms like <i>Ascaris</i>, <i>Entamoeba</i>, <i>Plasmodium</i>, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.</p>
	<p>Chapter-8: Microbes in Human Welfare In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers. Antibiotics; production and judicious use.</p>	<p>Students should be able to know about different types of microbes and their use in daily life.</p> <p>The student should appreciate the differences between the primary and secondary treatment of effluent.</p> <p>Students should have a basic understanding of microbial application in industries.</p>	<p>Demonstration: Fermented foods.</p>

October	<p>Chapter-9: Biotechnology - Principles and Processes Genetic engineering (Recombinant DNA technology).</p>	<p>Students should be able to know about the different steps of biotechnology.</p> <p>The student should appreciate the differences between endonuclease and exo-nuclease enzymes.</p> <p>Students should have a basic understanding of down-streaming processing.</p>	<p>Practical: DNA extraction from papaya cell.</p> <p>Demonstration: Cloning vectors.</p>
	<p>Chapter-10: Biotechnology and its Application Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy; Genetically modified organisms-Bt crops; Transgenic Animals; biosafety issues, biopiracy and patents.</p>	<p>Students should be able to know about the application of biotechnology in different fields.</p> <p>The student should appreciate the differences between bio piracy and bio patent.</p> <p>Students should have basic understanding of transgenic animals and their use in biotechnology.</p>	
November	<p>Chapter-11: 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.</p>	<p>Students should be able to know about different types of species interactions.</p> <p>The student should appreciate the differences between interspecific and intraspecific competition.</p> <p>Students should have basic understanding of organisms and their habitat.</p>	<p>Practical: Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.</p>

	<p>Chapter 12-Ecosystem</p>	<p>Students should be able to explain the ecosystem and its components .</p> <p>They would be able to know about different trophic levels ,Producers, Consumers and decomposers and their role in the ecosystem .</p> <p>Student would compare the Pyramids of Number, Biomass and Energy .</p> <p>Students would evaluate Primary and Secondary succession</p>	<p>Practical:</p> <p>Study the plant population density by quadrat method.</p> <p>Study the plant population frequency by quadrat method</p> <p>.</p> <p>Demonstration:</p> <p>Adaptations in plants and animals in aquatic and xeric conditions</p>
	<p>Chapter-13: Biodiversity and its Conservation Concept of biodiversity; patterns of biodiversity; importance of biodiversity; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, national parks, sanctuaries and Ramsar sites.</p>	<p>Students should be able to know about different types of biodiversity pattern.</p> <p>Student should appreciate the differences between endangered and extinct species.</p> <p>Students should have basic understanding of importance of biodiversity and causes of biodiversity loss.</p>	<p>Demonstration:</p> <p>Extinct and endangered species.</p>

Month	Name of Chapter
Unit Test	Unit 6 Chapter-1: Sexual Reproduction in Flowering Plants Chapter-2: Human Reproduction. Chapter-3: Reproductive Health.
PT 1	Unit 7 Chapter-4: Principles of Inheritance and Variation. Chapter-5: Molecular Basis of Inheritance

Term 1	Chapters 1 to 8 Chapter -6: Evolution Unit 8 Chapter-7: Human Health and Diseases. Chapter-8: Microbes in Human Welfare.
Preboard Exam	FULL COURSE Chapter 1to 13 Unit 9 Chapter-9: Biotechnology - Principles and Processes. Chapter-10: Biotechnology and its Application. Unit 10 Chapter-11: Organisms and Populations. Chapter 12: Ecosystem Chapter-13: Biodiversity and Conservation.

Optional Subject Informatics Practices

Month	Name of the Topics	Activity	Learning Outcome
April	Unit 1 : Revision of Python done in class XI. Data Handling using Pandas I	Developing Python programs using Series and Data Frames.	Dealing with data structures of Python – Series and Data Frames
May	Unit 1 : Data Visualization: Purpose of plotting, drawing and saving of plots using Matplotlib (lineplot, bar graph, histogram). Customizing plots: adding label, title, and legend in plots.Import/Export data between CSV Files &Pandas.	Generation of various types of graphs and their customization. Python programs to facilitate connectivity between CSV Files and Python programs. <i>Periodic Test I</i>	Visualize data using relevant graphs. Ability to create proper back-end data structure for storing data.
July	Unit 2 : Database Query using SQL: MySQL Revision of topics done in class XI. Single row and aggregate functions.	Creation of a database and Use of various DDL and DML commands. Use of various DML commands with predefined SQL functions.	Able to create & manipulate data in relational database.
August	Unit 2 : Querying using Group by, order by. Working with two tables using equi-join Project	Accessing data from a table or 2 tables, arranging data in some sequence. Data creation for project.	Accessing data from table(s) and printing it in some order.
Sept	Revision <i>Term 1 Th. & Prac. Exam.</i>	Questionnaires	Recall
October	Unit 3 : Introduction to Computer Networks : Introduction, Types of network & Network Devices, Topology, Internet and its applications, websites and web browsers. Project	Identification of computer network in computer lab and network devices used. Setting of a web browser.	Categorization, identification and purpose of network & its devices. Usage of various web applications. Customization of a web browser as per one's needs.

<i>November</i>	<p>Unit 4: 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.</p> <p>Project</p>	<p>Classification of software into OSS and proprietary category.</p> <p>Identification of e-waste and Minimization of e-waste</p> <p>Develop code for project</p>	<p>Identification of software categories.</p> <p>Awareness about health concerns while using technology.</p> <p>Ability to develop datasets and programs to analyse data.</p>
<i>Dec</i>	<p>Revision</p> <p>Preboard Exam.</p> <p>Project</p>	<p>Questionnaires</p> <p>Old CBSE Question papers</p>	<p>Recall Evaluation</p>
<i>Jan</i>	<p><i>Board Practical</i></p> <p>Revision</p>	<p>Questionnaires</p>	<p>Evaluation</p>

Syllabus for P1	Unit 1 – CHAPTER 2
Syllabus for Term 1	Unit 1 & 2 – CHAPTERS –1, 2, 4
Syllabus for Pre-Board I	Whole Syllabus – Unit 1, 2, 3& 4 – CHAPTERS – 1,2,4,5,6

Text Book: Informatics Practices – A Textbook for class XII published by NCERT.

Reference Book: Informatics Practices for class XII written by Preeti Arora, Published by Sultan Chand

Artificial Intelligence

Text Book :

1. Employability Skill Recommended by NCERT
2. AI Material by CBSE

Month	Name of the Topics	Learning Outcome
April	Unit 1: Capstone Project	Skill – Understanding the problem and being able to express the same Creativity – To be able to develop/innovate from design a solution
	Unit 1: Communication Skills-II	Communication Skills will be enhanced
May	Unit 1: Capstone Project	Skill – Understanding the problem and being able to express the same Creativity – To be able to develop/innovate from design a solution
	Unit 2: Self Management Skills-II	Management Skills will be enhanced
July	Unit 1: Capstone Project	Skill – Understanding the problem and being able to express the same Creativity – To be able to develop/innovate from design a solution
	Unit 2: Model lifecycle (Knowledge)	Understand the stages involved in the AI project cycle
	Unit 2: Self Management Skills-II	Management Skills will be enhanced
	Unit 3: ICT Skills-II	ICT Skills will be enhanced
August	Unit 2: Model lifecycle (Knowledge)	Understand the stages involved in the AI project cycle
	Unit 3: ICT Skills-II	ICT Skills will be enhanced
September	Unit 2: Model lifecycle (Knowledge)	Understand the stages involved in the AI project cycle
	Revision	
October	Unit 3: Story- telling through data (Critical and Creative thinking Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application - Helping in creating blogs, videos, and other content.
	Unit 4: Entrepreneurial Skills-II	Entrepreneurial Skills will be enhanced
November	Unit 3: Story- telling through data (Critical and Creative thinking Skills)	Skill – Imagination, mapping the plot into key events increasing memory retention. Application - Helping in creating blogs, videos, and other content.
	Unit 4: Entrepreneurial Skills-II Unit 5: Green Skills -II	Entrepreneurial and Green Skills will be enhanced
December	Revision	

January	Revision	
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Periodic Test 1 : Part A- Unit 1: Communication Skills-IV
Part B- Unit 1: Capstone Project (Till 6.2)

Half Yearly Theory Examination

Part A- Unit 1: Communication Skills-IV
Unit 2 :Self Management Skills-IV
Unit 3 : ICT Skills-IV
Part B- Unit 1: Capstone Project
Unit 2: Model lifecycle (Knowledge)

Half Yearly Practical Examination

Block Coding
Chatbots
Python
Teachable Machine
Capstone Project

Preboard

Part A :

Unit 1: Communication Skills-IV
Unit 2 :Self Management Skills-IV
Unit 3 : ICT Skills-IV
Unit 4 :Entrepreneurial Skills-IV
Unit 5 :Green Skills-IV

PartB :-

Unit 1: Capstone Project
Unit 2: Model lifecycle (Knowledge)
Unit 3: Storytelling through data (Critical and Creative thinking Skills)

Student Capstone Project (PRACTICAL)

Block Coding, Chatbots, Python, Teachable Machine
Student AI project Development & Presentation
Submission of Project Logbook and Video presentation

Home Science

Month	Unit/Chapters	Activities	Learning Outcomes
April	Chapter-1 Work, Livelihood and Career	1. The students will be asked to make a Presentation on Successful Entrepreneurs of India. 2. A Socratic quiz.	Competencies and skills enhanced- Understanding Critical skills Analytical skills. Credibility. Empathy Investigation. Application of the concept. Inter-Disciplinary- Use of History, political science and EP in understanding various traditional occupations of India, constitutional rights of women and concept of Entrepreneurship.
April	Unit-I Chapter 2 Clinical Nutrition and Dietetics	Practical- To plan a family meal and modify it for an elderly person keeping in mind their nutritional requirements.	Competencies and skills enhanced- Inter Disciplinary- Use of Chemistry and Biology and dietetics in understanding the concepts of nutrition and therapeutic diets and their feeding routes.
May	Chapter 3 Public Nutrition And Health	Explanation of the concept through examples and flow charts. 1. To visit different sites like WHO, UNICEF etc and find out about the different programmes for Women and Child welfare. 2. Socratic Quiz.	Competencies and skills enhanced- Understanding Analytical skills. Speaking and listening skills. Credibility. Empathy Investigation. Inter Disciplinary- Use of chemistry and Biology in understanding the various health problems and nutritional interventions and feeding strategies

<p>July</p>	<p>Chapter 5- Food Processing And Technology</p>	<p>AIL:</p> <p>1.A visit to a food processing unit.</p> <p>2.Collect information about various types of preserved food and present in the class with their merits and demerits.</p> <p>Practical:</p> <p>3. Prepare a label for the product.</p>	<p>Competencies and skills enhanced-</p> <p>Understanding Analytical skills Critical skills Credibility Empathy Investigation Learning by doing Inter Disciplinary: Use of concepts of Bio technology and history of food</p>
<p>July</p>	<p>Unit III Chapter-7 Early childhood care and Education</p>	<p>1.Group Discussion on Reasons of delinquency among children.</p> <p>2.Story telling by students-it gives students an opportunity to gain an understanding of other families ,cultures and communities.</p> <p>3.Socrative Quiz</p>	<p>Competencies and skills enhanced</p> <p>Understanding Analytical Critical skills Empathy Rational thinking/ Interpersonal and Intrapersonal skills. Learning by doing Inter Disciplinary- Use of child psychology in understanding the traits of pre-schoolers.</p>
<p>August</p>	<p>Chapter-10 Management of Support Services, Institutions and Programmes for Children, Youth and Elderly</p>	<p>AIL-</p> <p>Task: To prepare a script and enact a play about dynamics in a large joint family</p> <p>3.Socrative quiz</p>	<p>Competencies and skills enhanced</p> <p>Understanding Analytical skills Critical skills Credibility Empathy Rational thinking</p>

<p>August</p>	<p>Unit-IV Chapter-12 Design for Fabric and Apparel</p>	<p>AIL-</p> <p>1.Students to make colour wheel and understand different colour schemes</p> <p>2. To illustrate designs that will be suitable for persons with different types of personalities</p> <p>Practical:</p> <p>1.Preparation of articles using applied textile design(Tie and Dye)</p> <p>2. Preparation of articles using applied textile design(Block Printing)</p> <p>3.Batik</p> <p>4.Paste the samples in the file.</p>	<p>Competencies and skills enhanced</p> <p>Understanding :</p> <p>Analytical skills Critical skills. Credibility Rational thinking Learning by doing Artistic skills Inter Disciplinary- Use of concepts of Art and drawing in understanding and creating design.</p>
<p>September</p>	<p>Unit IV Chapter-13 Fashion Design and Merchandising</p>	<p>AIL-</p> <p>1.Group Discussion on Major developments in Fashion.</p> <p>2.Socrative Quiz</p>	<p>Competencies and skills enhanced</p> <p>Understanding :</p> <p>Analytical skills Critical skills Credibility Rational thinking Learning by doing Artistic skills. Inter Disciplinary- Use of concepts of Fine Art and History and evolution of fashion industry.</p>

September	Unit IV Chapter - 15 Care and Maintenance of Fabrics in Institutions	AIL- 1. Power point presentation for explanation of the differences between commercial laundries in hospitals and hotels. 2. Quiz.	Competencies and skills enhanced- Understanding Analytical skills Critical skills. Credibility. Rational thinking. Learning by doing. Iner-disciplinary- Use of fashion studies and chemistry to understand the concept of commercial laundry and maintenance of fabrics.
October	Unit V Chapter 17 Hospitality Management	AIL- 1.A video presentation of a hotel to give a over view of the functioning of a hotel. 2.A presentation on a hotel kitchen and its different parts.	Analytical skills Critical skills. Credibility. Rational thinking. Learning by doing. Inter disciplinary- Use of concepts of management from Business studies and Hospitality Management as part of resource management
November	Unit V Chapter-20 Consumer Education and Protection	Practical: To develop a leaflet/pamphlet for Consumer Education and Protection on any of the given topics and paste in the file.	Competencies and skills enhanced- Understanding Analytical skills Critical skills. Credibility Rational thinking Investigation Speaking and listening skills Learning by doing. Communication skills.

December	Unit VI Chapter-21 Development Communication and Journalism	AIL- 1.Quiz- Students to plan and conduct a quiz on programmes/jingles on different national and local channels which try to generate awareness among masses on social and environmental issues.	Competencies and skills enhanced- Understanding Analytical skills Critical skills. Credibility. Rational thinking. Creative thinking. Investigation. Communication skills. Learning by doing. Inter Disciplinary- Use of concepts of Mass media and communication as part of extension education.
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Exam	Syllabus
Unit Test	Chapter-1 Work, Livelihood and Career Chapter-2 Clinical Nutrition and Dietetics Chapter-3Public Nutrition and Health
Periodic Test-1	Chapter-5 Food Processing and Technology Chapter-6 Food Quality and Safety Chapter-7 Early Childhood care and Education
Term -1	Chapter-1 Work, Livelihood and Career Chapter-2 Clinical Nutrition and Dietetics Chapter-3Public Nutrition and Health Chapter-5 Food Processing and Technology Chapter-6 Food Quality and Safety Chapter-7 Early Childhood care and Education Chapter-10 Management of Support Services, Institutions and Programmes for Children, Youth and Elderly
Pre Board Examination	Chapter-12 Design for fabric and Apparel Chapter-13 Fashion Design and Merchandizing Chapter-15 Care and Maintenance of Fabrics in Institutions Chapter-17 Hospitality Management Chapter-20 Consumer Education and Protection Chapter-21 Development Communication and Journalism

PSYCHOLOGY

Month	Chapter	Activity	Learning Outcome
April	Ch – 3. Meeting Life Challenges TEST: DBDA	Activity on Stress	<ul style="list-style-type: none"> Students would grasp the concept of stress and how to deal with it
May	TEST: DBDA Case Profile explained and given to work during the summer break		<ul style="list-style-type: none"> Practical understanding of making a Psychological case profile and writing report for the Psychometric test for practical
July	Ch – 1. Intelligence Ch – 2. Self & Personality	Activity on Individual Differences Activity on Self Perception	<ul style="list-style-type: none"> The various factors influencing intelligence and its range will be clear Various theories of personality, as well as its assessment, will be learned
August	Ch – 2. Self & Personality (continued) Ch – 4. Psychological Disorders	Activity on Psychological Disorders	<ul style="list-style-type: none"> Various psychological disorders and their symptoms would be clear to students
September	Ch – 5. Therapeutic Approaches Ch – 7. Social Influence (introduced)	Role Play as a Therapist /Mock interview Activity 1 on Social Influence	<ul style="list-style-type: none"> Psychological therapies and the principles that govern them will be known Students will learn about the influence of others on their behavior.
October	Ch – 7. Social Influence (continued) <u>Test: Tests:</u> <u>(SPM and HSPQ)</u> <u>_(SAS and Practical File Work)</u>	Activity 2 on Social Influence	<ul style="list-style-type: none"> Students will learn to conduct and interpret various psychometric tests to perfection.
November	Ch – 6. Attitude and Social Cognition	Discussion and brainstorming session on Prejudice	<ul style="list-style-type: none"> Students will learn how their attitudes are formed and changed

Syllabus for Unit Test 1

: Chapter 3

Syllabus for P1

: Chapter No. 1 ,2, 3

Syllabus for Half yearly Examination

: Chapter Nos. 1 , 2 , 3 , 4 , 5

Pre-Board – I

: Complete Syllabus (1,2,3,4,5,6,7)

Pre-Board – II

: Complete Syllabus (1,2,3,4,5,6,7)

Physical Education

Class - XII

Month`	Name of the Topics	Activities	Learning Outcome
April	Unit – I Planning Sports	<ul style="list-style-type: none"> • Physical Fitness (AAHPER) • 60 m • 600 m yard Run / Walk 	<ul style="list-style-type: none"> • Meaning and all types of tournament, Draw Fixture specific sports programme
May	Unit-II Sports & Nutrition Unit – III Yoga & Lifestyle	<ul style="list-style-type: none"> • Physical Fitness (AAHPER) • Standing broad jump • Shuttle run 	<ul style="list-style-type: none"> • Asanas as preventive measure obesity all types of Yogasanas
July	Unit IV. Physical Education & Sports for CWSN Unit – V Children & women in Sports	<ul style="list-style-type: none"> • Physical Fitness (AAHPER) • 60 m • 600 m yard Run / Walk • Standing broad jump • Shuttle run 	<ul style="list-style-type: none"> • Concept of Disabilities and Disorder Advantage of Physical Education Activity for children with special needs.
August	Unit-VI Test & Measurement in Sports	Skill of Athletics, Basketball	<ul style="list-style-type: none"> • Postural Deformities
September	Unit VII Physiology & Injury in Sports	Skill of Football, Handball	<ul style="list-style-type: none"> • Effect on Body system
October	Unit VIII, Biomechanics & Sports Unit IX Psychology & Sports	<ul style="list-style-type: none"> • Skill of Hockey, Kho Kho, 	<ul style="list-style-type: none"> • Types of movement • Newton's Law of motion
November	Unit X Training in Sports	<ul style="list-style-type: none"> • Skill of Volleyball 	<ul style="list-style-type: none"> • Types of methods of improving strength

Syllabus for P1	:	Unit – 1
Syllabus for P2	:	Unit – 1 , 2 , 3 , 4 , 5
Syllabus for Half yearly	:	Unit - 1 to 7
Syllabus for Pre-Board I & II	:	Unit – 1 to 10

Painting

Fine Arts-Painting (Theory)

Month	Name of the Topic	Activity	Learning Outcome
April Unit-1	The Rajasthani and Pahari Schools of Miniature Painting (16 th Century A.D. to 19 th Century A.D.) (1) The Origin and Development of Miniature Painting in India	<ul style="list-style-type: none"> Identify the Colours and Make the Difference Charts 	<ul style="list-style-type: none"> To familiarize students with various styles and modes of art expressions from different parts of India. This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life.
May	(2) The Rajasthani Schools of Miniature Painting (3) The Pahari Schools of Miniature Painting	<ul style="list-style-type: none"> Identify the Picture of different Art Style 	
July Unit-2	The Mughal and Deccan Schools of Miniature Painting (16 th Century A.D. to 19 th Century A.D.) The Origin and Development of Mughal and Deccan Schools	<ul style="list-style-type: none"> Develop PPT 	
August	(4) The Mughal School of Miniature Painting (5) The Deccan School of Miniature Painting	<ul style="list-style-type: none"> To Document difference between Painting & Sculpture 	
September Unit-3	The Bengal School of Painting and the Modern trends in Indian Art (About the beginning to mid of the 20 th Century) National Flag of India and the Symbolic significance of its forms and the colours. (6) Introduction to the Bengal School of Painting (7) Study of the Painting of Bengal School	<ul style="list-style-type: none"> Develop Charts 	<ul style="list-style-type: none"> The students will also have an opportunity to observe and study the evolution of its mutations and synthesis with other style and the rise of an altogether new style. The students will be made aware of art as a human experience.
October	(8) Contribution of Indian artists in the Struggle for National Freedom Movement (9) Evolution of the Indian National Flag	<ul style="list-style-type: none"> Identify the Picture of Different Art Styles 	
November	(10) The Modern Trends in Indian Art (11) Paintings of the Contemporary (Modern) Indian Artists (12) Graphic prints of the Contemporary (Modern) Indian Artists (13) Sculptures of the Contemporary (Modern) Indian Artists	<ul style="list-style-type: none"> Develop PPT Identify the Picture of different Art Style 	

Term Wise Syllabus Painting Class 12

Syllabus for P1:	The Rajasthani and Pahari Schools of Miniature Painting
Syllabus for P2:	The Mughal and Deccan Schools of Miniature Painting
Syllabus for Half Yearly:	The Rajasthani and Pahari Schools of Miniature Painting The Mughal and Deccan Schools of Miniature Painting
Syllabus for P3:	The Indian National Flag and the Bengal School of Painting The Modern Trends in Indian Art
Syllabus for Annual Exam	Complete Syllabus

FINE ARTS-PAINTING(Practical)

Month	Name of the Topic
April	Nature and Object Study
May	Nature and Object Study
July	Nature and Object Study
August	Painting-Composition
September	Painting-Composition
October	Painting-Composition
November	Painting-Composition
December	Portofolio Assessment
January	Portofolio Assessment
February	Portofolio Assessment

Economics

Month	Name of the Topic		Learning Outcome
April	Unit 2 Unit -4	Section A– Introductory Macro Economic Theory Money& Banking Money-meaning and supply of money Money creation by Commercial Banks Government Budget and the Economy (To be Continued)	Meaning of money and money supply, process of credit creation by commercial banks Various functions of the central bank. Meaning, Objectives, components of government budget.
May	Unit-4 Unit-5	Government Budget and the Economy Balance of Payment Foreign Exchange rate-Meaning’ Types& determination of Foreign Exchange rate Balance of Payments B.O.P Account and B.O.P Deficit (To be Continued)	Meaning, Objectives, components of government budget. B.O.P, B.O.T, components of B.O.P account. B.O.P deficit Types of exchange rate, determination of exchange rate----
July	Unit-1.	National Income Methods of Calculating National Income Balance of Payment continue	Measurement of national income by three methods. Circular flow of income , basic concepts of Macro Economics
August	Unit-6.	Section B: Indian Economic Development Development Experience (19947-90) and Economic Reforms Since1991 Ch-1.Indian Economy on the eve of Independence Ch-2. Five years Plan in India- Goals achievements Ch-3. Agriculture, Industry & Trade (1950-1990) Ch-4. Economic Reforms since 1991:NewEconomic Policy..	Indian economy under British rule- Agriculture and industrial sector, foreign trade, occupational structure, demographic conditions, infrastructure Objectives of Indian planning Features problems and policies of Indian Agriculture Industrial policy, types and programmes. importance of foreign trade, Need for economic reforms,
September	Unit-7	Current Challenges Facing Indian Economy Ch-5.Human Capital Formation in India	role of human capital formation in economic development
October	Unit-3	Determination of Income and Employment	AD and components, income determination and multiplier
	Ch-6.RuralDevelopment		Institutional sources of rural credit

November	Unit 7	Current Challenges Facing Indian Economy Ch-7. Employment & Unemployment Ch-8. Environment & Sustainable Development	Types and problems of employment strategies of sustainable development
	Unit 8	Ch-9. Development Experience of India, Pakistan & China–A comparative Study	Development strategies of India, China and Pakistan

Unit test : Section-A Unit 2
Syllabus for P1 : Section-A: Unit-2&4
Syllabus for Half yearly : Section-A Unit-1, 2, 4, 5 Section-B. Unit-6: Ch- 1 to 4
Pre-Board : Complete Syllabus