





CLASS	XII	воок	FLAMINGO VISTAS
SUBJECT	ENGLISH		
MONTH	PROSE	POEM	GRAMMAR
APRIL	The Last Lesson (Alphonse Daudet) The Third Level (Jack Finney)	My Mother At Sixty Six (Kamla Das)	Formal & Informal Invitations
May-June	The Lost Spring (Anees Jung) The Tiger King (Kalki)	Keeing Quiert (Pablo Neruda)	Advertisement Letter Writing (Business letters)
July-Aug	Deep Water (William Douglas) Journey To The End Of The Earth (Tishani Doshir)	Aunt Jennifer's Tiger (Adrienne Rich)	Resume with Job Application
SEPTEMBER	Going Places (A.R. Barton) REVISION TERM 1 EXAMS	REVISION TERM 1 EXAMS	REVISION TERM 1 EXAM
OCTOBER	Poets And Pancakes (Louis Fischer & Stephen Spender) Memories of My Childhood (Zitkala Sa and Bama)	A Thing Of Beauty (John Keats)	Article Writing
NOVEMBER	The Enemy (Pearl S. Buck) Indigo (Louis Fischer) The Interview (Christopher Silvester)	A Roadside Stand (Robert Frost)	Debate Speech
DECEMBER	PRE -BOARD 1		
JANUARY	PRE-BOARD 2		









CLASS	XII	воок	
SUBJECT	PHYSICS	PUBLISHER	NCERT

MONTH	Unit	LESSON	SUB TOPIC	No. of Periods	Weigh tage
April	1	Electrost atics (Electric Charges and Fields)	Electric charges, Conservation of charge, Coulomb's law-force between twopoint charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside)	26	
Мау	1	Electrost atics (Electrost atic Potential and Capacita nce)	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only)	26	8





	2	Current Electricit y	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	18	7
July	3	Magnetic Effects of Current and Magnetis m	Moving Charges and Magnetism Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometerits current sensitivity and conversion to ammeter and voltmeter	25	8





July			Magnetism and Matter Bar magnet, bar		
			magnet as an equivalent solenoid		
			(qualitative treatment only), magnetic field		
			intensity due to a magnetic dipole (bar		
			magnet) along its axis and perpendicular to		
			its axis (qualitative treatment only), torque on		
			a magnetic dipole (bar magnet) in a uniform		
			magnetic field (qualitative treatment only),		
			magnetic field lines. Magnetic properties of		
			materials- Para-, dia- and ferro - magnetic		
			substances with examples, Magnetization of		
			materials, effect of temperature on magnetic		
			properties		
August	4 &5	Electrom	Electromagnetic Induction Electromagnetic		
		agnetic	induction; Faraday's laws, induced EMF and		
		Inductio	current; Lenz's Law, Self and mutual		
		n and	induction.		
		Alternati	Alternating Current Alternating currents,		
		ng	peak and RMS value of alternating		
		Currents	current/voltage; reactance and impedance;		
		Electrom	LCR series circuit (phasors only), resonance,		
		agnetic	power in AC circuits, power factor, wattless	28	8+3
		waves	current. AC generator, Transformer	20	0.3
			*Basic idea of displacement current,		
			Electromagnetic waves, their		
			characteristics, their transverse nature		
			(qualitative idea only). Electromagnetic		
			spectrum (radio waves, microwaves,		
			infrared, visible, ultraviolet, X-rays, gamma		
			rays) including elementary facts about		
			their uses.		







SYLLABUS FOR 2024-25 Class:- XII

CLASS	XII	воок	NCERT TEXTBOOK
SUBJECT	CHEMISTRY	PUBLISHER	NCERT

TERM-1

MONTH	LESSON	TOPIC / SUB TOPIC	No of periods	Weight age
April	CH-1 Solution	Solution Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.	10	7
Мау	CH-2 Electroche mistry CH-3 Chemical kinetics	Electrochemistry: EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, corrosion. Chemical Kinetics Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory Arrhenius equation.	22	14





July and August	CH- 6 Haloalkane s and Haloarenes CH-9 Amines	Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Ch-9 Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.	20	12
September	CH - 7 Alcohol Phenol and Ethers CH-10 Biomolecul es	Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols. Ether - Preparation, nomenclature, and chemical reactions. Biomolecules. Carbohydrates - Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.	22	13





October	CH-8 Aldehyde ,Ketone and carboxylic acid	Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses. Carboxylic acid Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties.	10	8
November	CH-5 Coordinatio n Compound s CH-4 D&F Block	Coordination Compounds Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism D&F Block Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids	24	14
December	Revision	Revision		





SYLLABUS FOR 2024-25 Class:- XII

CLASS	XII	воок	TEXT BOOK OF BIOLOGY
SUBJECT	BIOLOGY	PUBLISHER	NCERT

TERM-1

MONTH	LESSON/ CHAPTE R	TOPIC / SUB TOPIC	NUMBER OF PERIODS	WEIGHT AGE
MARCH- APRIL	I. Reprod uction	Chapter-1: Sexual Reproduction in Flowering Plants: Flower structure; development of male and female gametophytes; pollination- types, agencies and examples; out breeding 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 dispersal and fruit formation. Flower structure; development of male and female gametophytes; pollination- types, agencies and examples; out breeding 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 dispersal and fruit formation. Chapter-2: Human Reproduction: Male and female reproductive systems' microscopic anatomy of testis and ovary; gametogenesis- spermatogenesis and oogenesis; enstrual cycle; fertilization, embryo development upto blastocyst formation, implantation; pregnancy and aplacenta formation (elementary idea); lactation (elementary idea) Chapter-3: Reproductive Health: Need for reproductive health and prevention of sexually Transmitted Diseases (STDs); birth control – need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies-IVF, ZIFT, GIFT (elementry idea for general awareness)	30	14





MAY JULY- AUGUST	2.Geneti cs and Evoluti on	Chapter-4: Principals of Inheritance and Variation: Heredity and variation: Mendelian inheritance; deviations from Mendelism- incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; pleitropy; elementary idea of plygenic inheritance; chromosome theory of injeritance; chromosomes and genes; sex determination – in humans, birds and honey bee; linkage and crossing over; sex linked inheritance- haemophilia, colour blindness; Mandelian disorders in humans- thelassemia; chromosomal disorder in humans, down's syndrome. Turner's and Klinefelter's syndromes. Chapter-5:Molecular Basis of Inheritance: Search for genertic material and DNA as genetic material; structure of DNA and RNA; DNA packaging, DNA replication; central dogma; transcription, genetic code, translation; gene expression and regulation lac operon genome and human and rice genome projects; DNA fingerprinting Chapter-6: Evolution: Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences; Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution- variation mutation and recombination and natural selection with examples, types of natural selection; gene flow and genetic drift; hardy – Weinberg's principle; adaptive radiation; human evolution.	40	18
SEPTEMBER	3.Biotec hnology	Chapter: 7Biotechnology- Principles and Processes: genetic engineering (Recombinant DNA Technology) Chapter:8 Biotechnology and Its Application: application of biotechnology in health and agriculture. Human insulin and vaccine production stem cell technology gene therapy; genetically modified organisms- bt crops trangnic animals; biosafety issues bio piracy and patents	30	14





CLASS	XII	воок	MATHEMATICS
SUBJECT	MATHEMATICS	PUBLISHER	NCERT

Month	Units	Topic	Sub-topic	Marks	Period
April	Relation and Functions	Relation and function Types of Relations: Reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of function.Binary operations.		08	20
		Inverse trigonometri c functions	Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric function	08	10
May	Algebra	Matrices	Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix, symmetric and skew symmetric matrices. Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Non – commutativity of multiplication of matrices and existence of non - zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).	10	15
		Determinant s	Determinant of a square matrix (up to 3 x 3 matrices) , properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle, Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.		25





June	Calculus	Continuity and Differentiabil ity	Continuity and differentiability, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivate of implicit functions. Concept of exponential and logarithmic functions and their derivaties. Logarithmic differentiation. Logarithmic differentiation, Derivative of functions expressed in parametric forms. Second order derivatives. Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretations and simple applications.	35	15
July		Application of derivatives	rate of change, increasing / decreasing functions, tangents &normals, approximation, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).		15
August		Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, only simple integrals of the type to be evaluated. Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof), Basic properties of definite integrals and evaluation of definite integrals.		30
		Application of Integration	Applications in finding the area under simple curves, especially lines, area of circles / parabolas / ellipses (in standard form only), area between the two above said curves.		10

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September		Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree.		10
October	Vectors and Three Dimensio n Geometry	Vector	Vectors and scalars, magnitude and direction of a vector. Direction cosines / ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.	14	15
		Three Dimensional Geometry	Direction cosines / ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines (ii) two planes (iii) a line and a plane. Distance of a point from a plane		15
November	Linear Program ming and Probabilit y	Linear programmin g	Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions, feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).	05	20
		Probability	Multiplication theorem on probability. Conditional probability, independent events, total probability. Baye's Theorem, Random variable and its probability distribution, mean and variance of random variable. Repeated independent (Bernoulli) trials and Binomial distribution.	08	30





CLASS	XII	воок	PSYCHOLGY (SUBJECT CODE -037)
SUBJECT	PSYCHOLOGY	PUBLISHER	NCERT

Month	Units	Topic	No of	Mark
			Periods	S
TERMI				
April	UnitI VariationsinP sychological Attributes	 Introduction IndividualDifferencesinHumanFunctioning AssessmentofPsychologicalAttributes Intelligence PsychometricTheoriesofIntelligence,InformationProce ssing Theory:Planning, Attention-arousal andSimultaneoussuccessiveModelofIntelligence,Triarc hicTheoryofIntelligence;TheoryofMultipleIntelligences. IndividualDifferencesinIntelligence CultureandIntelligence EmotionalIntelligence SpecialAbilities: Aptitude:NatureandMeasurement Creativity 	30 Periods	13
May	UnitII SelfandPerso nality	 Introduction SelfandPersonality ConceptofSelf CognitiveandBehavioural aspectsofSelf 	32 Periods	13
		 5. CultureandSelf 6. ConceptofPersonality 7. MajorApproachestotheStudyofPersonality TypeApproaches TraitApproaches 		





		 Psychodynamic Approach and Post FreudianApproaches BehaviouralApproach CulturalApproach HumanisticApproach AssessmentofPersonality Self-reportMeasures ProjectiveTechniques BehaviouralAnalysis 		
July	UnitIII MeetingLifeC hallenges	 Introduction Nature,TypesandSourcesofStress EffectsofStressonPsychologicalFunctioningandHealth StressandHealth GeneralAdaptationSyndrome StressandImmuneSystem Lifestyle CopingwithStress StressManagementTechniques PromotingPositive Health andWell-being LifeSkills PositiveHealth 	23 period s	9
August	UnitIV Psychological Disorders	 Introduction ConceptsofAbnormalityandPsychologicalDisorders HistoricalBackground ClassificationofPsychologicalDisorders FactorsUnderlyingAbnormalBehaviour MajorPsychologicalDisorders 	30 Period s	12
		 AnxietyDisorders Obsessive-CompulsiveandRelatedDisorders Trauma-andStressor-RelatedDisorders SomaticSymptomandRelatedDisorders DissociativeDisorders DepressiveDisorder BipolarandRelatedDisorders 		





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		 SchizophreniaSpectrum and Other PsychoticDisorders 		
		 Neurodevelopmental Disorders 		
		 Disruptive,Impulse-ControlandConductDisorders 		
	 FeedingandEatingDisorders 			
	Substance Related and Addictive Disorders			
		TERM-2		
September	UnitV Therapeuti cApproach es	 NatureandProcessofpsychotherapy Therapeuticrelationship TypesofTherapies BehaviourTherapy CognitiveTherapy Humanistic-ExistentialTherapy AlternativeTherapies FactorscontributingtohealinginPsychotherapy EthicsinPsychotherapy 	25 Period s	9
October	UnitVI Attitude	3. RehabilitationoftheMentallyIII1. Introduction	16 Period	8
	andSocialC	2. ExplainingSocialBehaviour	s	
	ognition	3. NatureandComponentsofAttitudes		
		4. AttitudeFormationandChange		
		AttitudeFormation		
		 AttitudeChange 		
		 Attitude-BehaviourRelationship 		
		5. Prejudiceand Discrimination		
		6. Strategies for Handling Prejudice		
November	UnitVII	1. Introduction	14	
	SocialInfl	2. NatureandFormationof Groups	Period	6
	uencean dGroupP	3. TypeofGroups	S	
	rocesses	Influence of Groupon Individual Behaviour		
		SocialLoafing		
		-		
		• GroupPolarisation		





SYLLABUS FOR 2024-25

Class:- XII

SUBJECT: LIFE SKILL AND CAREER COUNSELLING

MONTH	SESSION	ACTIVITY
April	Role of a counsellor *New Class New Challenges	"New life New dreams" Class discussion
May	*Adolescence *Behaviour choices *Emotional awareness and coping skills	Reforming myself" "My weakness are now my strengths" Making up a write up
July	*Friendship skills *Personal space *Conflict resolution	My life my priorities" Make your own personal space circle.
August	*listening skills *Communication Skills	Freedom of Expression Free writing or drawing Skills
September	*Academic skills and achievements *Test taking strategies *Examination Stress Management	"Best out of time" Make a Mind map of your study routine
November	*Bulling prevention and awareness *Body image	I love myself group discussion
December	*Personal safety *Tech Safety	Be safe act SMARTLY Making up a wheel of Safety
January	*Goal setting *Problem solving *Decision Making	Appreciating the difference *Mindfulness

CAREER COUNSELING

Month	Session
April	Introduction to career counseling
May	*Importance of Stream choices
May	*Criteria for stream selection
	*Careers in PCB
July	*Careers in PCM
	*Careers in PCMB
August	*Careers in Humanities
August	*Careers in Commerce



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	Best practices for
	NEET
September	JEE
	CLAT
	CUET
	Career in sports
November	Careers in Architecture
	Careers in PCB other than medicine
	Careers in Hospitality and Tourism
December	Careers in Defiance
December	Careers in Aviation
	Careers in Mass Media and Communication
January	New age Careers

^{*}Special Session will also be conducted for the students depending upon their career choices*





SYLLABUS FOR 2024-25 Class:- XII

CLASS	XII	воок	Essentials of Physical Education
SUBJECT	PHYSICAL EDUCATION	PUBLISHER	Sultan Chand

TERM-1

MONTH	CHAPTER	TOPIC/SUB TOPIC	NO.OF	WEIGHT
	/LESSON		PERIODS	AGE
April	1	 Management of Sporting Events Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) Various Committees & their Responsibilities (pre; during & post) Fixtures and their Procedures – Knock-Out (Bye & Seeding)& League (Staircase, Cyclic, Tabular method) and Combination tournaments Intramural & Extramural tournaments – Meaning, Objectives& Its Significance Community sports program (Sports Day, Health Run, Run for Fun, Run for SpecificCause & Run for Unity) 	15	5
April	2	 Children & Women inSports Exercise guidelines of WHO for different age groups. Common posturaldeformities-knock knees, flat foot, roundshoulders, Lordosis, Kyphosis, Scoliosis, and bow legs andtheir respectivecorrective measures. Women's participation in Sports – Physical, Psychological, and social benefits. Special consideration (menarche and menstrual dysfunction) Female athlete triad (osteoporosis, amenorrhea, eating disorder 	12	07
May	3	Yoga as Preventive measure for LifestyleDisease 1. Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama. 2. Diabetes: Procedure, Benefits &	12	07





		Contraindications for Katichakrasana, Pavanmuktasana,Bh ujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana, Paschimottanasan-a,Ardha- Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati. 3. Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansan a, UttanMandukasan- a, BhujangasanaDhanurasana, Ushtrasana, Vakrasana, Kapalbhati, Gomukhasana Matsyaasana, Anuloma-Viloma. 4. Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakransan, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasan- a,Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi- shodhanapranayam, Sitlipranayam. 5. Back Pain and Arthritis: Procedure,Benefits & Contraindications of Tadasan, Urdhawahastootansana, Ardh- Chakrasana, Ushtrasana, Vakrasana, Sarala Maysyendrsana, Bhujandgasana, Gomukhasana, Bhadrasana, Makarasana, Nadi- Shodhana pranayama.		
May	4	 Physical Education and Sports for CWSN (Children with Special Needs - Divyang) 1. Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics) 2. Concept of Classification and Divisioning in Sports. 3. Concept of Inclusion in sports, its need, and Implementation; 4. Advantages of Physical Activities for children with special needs. 5. Strategies to make Physical Activities assessable for children with special needs. 	13	5





		Sports & Nutrition		
July	5	 Concept of balanceddiet and nutrition Macro and Micro Nutrients: Food sources & functions Nutritive & Non- Nutritive Components of Diet Eating for Weight control – A HealthyWeight, The Pitfallsof Dieting, Food Intolerance, and Food Myths Importance of Diet inSports-Pre, During and Post competitionRequirements 	12	7
August	6	Test & Measurement in Sports 1. Fitness Test – SAI Khelo India Fitness Test in school: Age group 5-8 years/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Partial Abdominal Curl Up, Push-Ups for boys, Modified Push-Ups for girls). 2. Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise. 3. Computing Basal Metabolic Rate (BMR) 4. Rikli & Jones - Senior Citizen Fitness Test • Chair Stand Test for lower body strength • Arm Curl Test for upper body strength • Chair Sit & Reach Test for lower body flexibility • Back Scratch Test for upper body flexibility • Bight Foot Up & Go Test for agility • Six-Minute Walk Test for Aerobic Endurance 5. Johnsen – MethneyTest of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full-turn	13	4
September	7	 Physiology & Injuries in Sport Physiological factors determining components of physical fitness Effect of exercise on the Muscular System Effect of exercise on the Cardio- Respiratory System Physiological changes due to aging 	13	5





	 5. Sports injuries: Classification (Soft Tissue Injuries Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted) 			
		TERM -2		
October	8	 Biomechanics and Sports Newton's Law of Motion & its application in sports Types of Levers and their application in Sports. Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports Friction & Sports Projectile in Sports 	18	10
November	9	 Psychology and Sports Personality; its definition & types (Jung Classification & Big Five Theory) Motivation, its type & techniques. Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it Meaning, Concept & Types of Aggressions in Sports Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk, Goal Setting 	12	7
December	10	 Training in Sports 1. Concept of Talent Identification and Talent Development in Sports 2. Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle. 3. Types & Methods to Develop – Strength, Endurance, and Speed. 4. Types & Methods to Develop – Flexibility and Coordinative Ability. 5. Circuit Training - Introduction & its importance 	15	9





SYLLABUS FOR 2024-25 Class:- XII

CLASS	XII	BOOK	Informatics Practices for Class XII
SUBJECT	Informatics Practices	PUBLISHER	Dhanpat Rai & Co.

TERM-1

MONTH	Unit	LESSON	SUB TOPIC	No. of Perio ds	Weighta ge
April	2 Database Query using SQL	5. MySQL SQL Revision Tour 6. MySQL Functions	 Database Concepts and SQL Commands SQL Commands: Revision of database concepts and SQL commands covered in Class XI Math Functions:POWER(), ROUND(), MOD() Text Functions:UCASE()/UPPER(), LCASE()/LOWER() MID()/SUBSTRING()/SUBSTR(), LENGTH(), LEFT(), RIGHT() INSTR(), LTRIM(), RTRIM(), TRIM() Date Functions: NOW(), DATE(), MONTH(), MONTHNAME(),YEAR(),DAY(),DAYNAM E() Aggregate Functions: MAX(), MIN(), AVG(), SUM(), COUNT() Using COUNT(*) 	37	25
May	2 Database Query using SQL	7. Querying Using SQL 8.JOINS and SET Operatio ns	9) Querying and Manipulating Data: 10) Group by, Having, Order by 11) Working with Multiple Tables: 12) Using equi-join		
July	l Data Handling using Pandas and Data Visualizati on	1.Python Pandas -I	 Introduction to Python Libraries: Pandas and Matplotlib Data Structures in Pandas: Series and DataFramesIndexing and Slicing. Series: Creation from ndarray, dictionary, scalar value Mathematical operations Head and Tail functions Selection, Indexing, and Slicing 	25	25





SYLLABUS FOR 2024-25 Class:- XII

August	l Data Handling using Pandas and Data Visualizati on	2. Python Pandas -II	 DataFrames: Creation from a dictionary of Series, list of dictionaries, Text/CSV files Display and iteration Operations on rows and columns: add, select, delete, rename Head and Tail functions Indexing using Labels, Boolean Indexing 	
September	l Data Handling using Pandas and Data Visualizati on	3. Plotting with PyPlot 4. Importin g/Exportin g Data between CSV files and Data Frames.	7) Importing/Exporting Data: 8) Between CSV files and DataFrames 9) Data Visualization: 10) Purpose of Plotting 11) Drawing and saving various types of plots using Matplotlib: line plot, bar graph, histogram 12) Customizing Plots: 13) Adding label, title, and legend in plots 14) Importing/Exporting Data between CSV files and Data Frames.	

TERM-2

MONTH	UNIT	LESSON	SUB TOPIC	No. of Period s	Weight age
October	3 Introducti on to Compute r Networks	9. Introduction to Computer Networks 10. Introduction to Internetand web	 Introduction to Networks: Types of networks: PAN, LAN, MAN, WAN Network Devices: Modem, Hub, Switch, Repeater, Router, Gateway Network Topologies: Star, Bus, Tree, Mesh Introduction to the Internet: URL, WWW, and its applications: Web, Email, Chat, VoIP Website Basics: Introduction Difference between a website and a webpage Static vs Dynamic web page Web server and hosting of a website Web Browsers: Introduction Commonly used browsers Browser settings 	10	10





November	4 Societal Impacts	11. Societal Impacts 12. Data Protectio n	 ◆ Add-ons and plug-ins ◆ Cookies) 1) Digital Etiquettes and Awareness: 2) Digital footprint 3) Net and communication etiquettes 4) Data protection 5) Intellectual property rights (IPR) 6) Plagiarism 7) Licensing and copyright 8) Free and open-source software (FOSS) 9) Cybersecurity: 10) Cybercrime and cyber laws 11) Hacking 12) Phishing 13) Cyberbullying 14) Overview of the Indian IT Act 15) E-Waste Management: 16) Hazards and management 17) Technology Usage and Health: 18) Awareness about health concerns related to the usage of technology 	10	10
December		Revision & Examinatio n	3		
January		Revision & Examinatio n			





SYLLABUS FOR 2024-25

Class:- XII

SUBJECT: LIFE SKILL AND CAREER COUNSELLING

MONTH	SESSION	ACTIVITY
April	Role of a counsellor *New Class New Challenges	"New life New dreams" Class discussion
May	*Adolescence *Behaviour choices *Emotional awareness and coping skills	Reforming myself" "My weakness are now my strengths" Making up a write up
July	*Friendship skills *Personal space *Conflict resolution	My life my priorities" Make your own personal space circle.
August	*listening skills *Communication Skills	Freedom of Expression Free writing or drawing Skills
September	*Academic skills and achievements *Test taking strategies *Examination Stress Management	"Best out of time" Make a Mind map of your study routine
November	*Bulling prevention and awareness *Body image	I love myself group discussion
December	*Personal safety *Tech Safety	Be safe act SMARTLY Making up a wheel of Safety
January	*Goal setting *Problem solving *Decision Making	Appreciating the difference *Mindfulness

CAREER COUNSELING

Month	Session				
April	Introduction to career counseling				
May	*Importance of Stream choices				
May	*Criteria for stream selection				
	*Careers in PCB				
July	*Careers in PCM				
	*Careers in PCMB				
August	*Careers in Humanities				
	*Careers in Commerce				



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	Best practices for
	NEET
September	JEE
	CLAT
	CUET
	Career in sports
November	Careers in Architecture
	Careers in PCB other than medicine
	Careers in Hospitality and Tourism
December	Careers in Defiance
December	Careers in Aviation
	Careers in Mass Media and Communication
January	New age Careers

^{*}Special Session will also be conducted for the students depending upon their career choices*





CLASS	XII	PAINTING	BOOK	PANORAMIC INDIAN
				PAINTING
SUBJECT	FINE ARTS	CODE NO. 049	PUBLISHER	VISHAL PUBLISHING CO.

MONTH		CHAPTER/L ESSON	TOPIC/SUB-TOPIC	NO. OF PERIODS	WEIGHT AGE
APRIL	THEORY	Fundament als of Art	Six limbs of painting	14	4
	PRACTICAL	SKETCHING	Natural forms (live plants and sand trees, vegetables and fuits, leaves and flowers etc.); Geometrical forms (tables, chairs, tv, kitchen, utensils etc.), Portrait (poster colours and pencil shading)		10
MAY	THEORY	The Rajasthani and Pahari Schools of Miniature Painting	Introduction to indian miniature schools: western-indian, pala, rajasthani, mughal, central india, deccan, and pahari.	24	4
	PRACTICAL	STILL LIFE	Natural objects (vegetables, fruits and plants) Geometrical objects (thick book, jug, bowl, cubes, cylinders, sphere etc)		10
AUGUST	THEORY	The Rajasthani and Pahari Schools of Miniature Painting	Introduction to mughal, central india, deccan, and pahari.	24	4.5
	PRACTICAL	COLOUR AND DESIGN	Zentangle (colourful, black and white)		10
SEPTEMBER	THEORY	The Mughal and Deccani Schools of miniature painting (16th Century	The mughal school (origin and development of the mughal school in brief and main features of the mughal school), study of the following mughal paintings,	24	4.5





Century		
A.D.)		
PRACTICAL PAINTING Newspaper painting (with black colour or multi colour)	ck 10	
Copy work(copy work of any fa	amous	

MONTH		CHAPTER /LESSON	TOPIC/SUB-TOPIC	NO. OF PERIOD	WEIGHT AGE
NOVEMBER	THEORY	The Mughal and Deccani Schools of miniature painting (16th Century A.D. to 19th Century A.D.)	The deccani school origin and development of the deccani school and main features of the deccan school. Study of the deccani paintings	24	4.5
	PRACTICAL	SPACE DIVISION	Negative and positive space (black and white)		10
DECEMBER	THEORY	Unit 3: The Bengal School and Cultural Nationalism	New era in indian art-an introduction, study of the paintings of new era Study of famous indian artist's paintings	24	4.5
	PRACTICAL	PAINTING COMPOSITIO N	Monochrome painting (draw anything of your choice and use any poster colours) Landscape, cityscape, seascape, sunset scene(use any medium)		10
JANUARY	THEORY	Unit 4: The Modern trends In Indian Art	Study of famous indian artist's paintings	20	4
	PRACTICAL	INDIAN FOLK ART	Madhubani and warli art		10
		Submit portfolios			





SYLLABUS FOR 2024-25 Class:- XII

HINDUSTANI MUSIC VOCAL (Code-034)

Sr.No.	Units	No.of Periods	Marks
	Unit1	08	
	Brief study of the following:-Alankar, Kan, Meend, Khatka,Murki, Gamak.	05	0
1.2	Brief study of the following Gram, Murchhana, Alap, Tana.	07	6
	Unit2	05	
2.1	Historical development of Time Theory of Ragas	05	- 0 6
	Unit3	08	
3.1	Detail study of the following Sangeet Ratnakar Sangeet Parijat	04	0 6
3.2	Lifesket chand Cotribution of Faiyaz Ghulam AliKhan, KrishnaRao, ShankarPandit	04	
	Unit4	09	
4.1	Description of Prescribed Talas along with Tala Notation with Thah, Dugun, Tigun and Chaugun	06	06
4.2	Tuning of Tanpura	03	
	Unit 5	10	
5.1	Critical study of Prescribed Ragas along with recognizing Ragas from phrases of Swarasand Elaborating them excluding Raga Shuddha	04	06









SYLLABUS FOR 2024-25 Class:- XII

5.2	Writingin Notation the Compositions of	06	
	Prescribed Ragas.		
	Bhairav		
	Bageshri		
	Malkauns		

Practical

Sr.No.	Topics	No.of periods
1.	One Vilambit Khayal with simple elaborations and	
	few Tanas in any two of the prescribed Ragas.	18
2.	One Drut Khayal with simple elaborations and few	
	tanas in the following Ragas-Bhairav, Bageshri,	42
	and Malkauns.	
3.	One Tarana and one Dhamar with dugun and	1.0
	chaugunin anyone of the prescribed Ragas.	10
4.	Ability to recognize the Ragas from the Phrases of	
	Swara srendered by the examiner.	10
5.	Recitation of the The kas of Jhaptala, Rupak, and	
	Dhamar with Dugun and Chaugun, keeping tala with and beats.	15
6.	Tuning of Tanpura.	05

