

GREENFINGERS GLOBAL SCHOOL , KHARGHAR					
CLASS: XI SUBJECT: ENGLISH CORE SYLLABUS 2024- 25					
MONTH	HORNBILL/SNAPSHOTS	GRAMMAR/ COMPOSITION	PERIODS	ACTIVITIES	PEDAGOGICAL STYLE
JUNE	1) The Portrait of A Lady	1.Short Composition: Notices & Note Making	5	Note making from any Newspaper article	Context based learning -Open ended instruction to improve creative thinking, memory and writing skills of the students based upon general instructions
	2.A Photograph (Poem)	2.Clauses & syntensis of sentences	4	Communicative skills	
	1. The Summer of the Beautiful White Horse	Practice for ASL	5		
I UNIT TEST (JULY)					
JULY	2. We're Afraid ToDie..... If We Can All Be Together	1) Comprehension Passages : Factual, Literary and	5	Reading Project (Critical evaluation of the plot, Story,character s etc.)	Peer learning and Group dynamics wherein students think and answer to develop their oral skills which are used in realistic situations.
	2.The Laburnum Top (Poem)	2) Discursive Passages	4	Extensive Reading(Books on Adventurous Travels)	
	2. The Address	NOTE MAKING AND SUMMARY	6	Audio recordings for promoting listening skills.	
AUG	3.Discovering Tut :The Saga Continues	POSTER MAKING	6	Travelogues	
	3.The voice of the Rain (Poem)	ADVERTISEMENT	6		
	5.Mother's Day		6	POSTER MAKING	
MID TERM EXAM (SEPTEMBER)					
SEPT	7..Birth	1)Articles,Speeches,& Reports	3	Dramatization of the Novel (Group activity for children to show case their acting	Art Integration incorporating ideas to enhance their individual style and tone.
	4. Childhood (Poem)	2) Error Correction,Editing the Text&Re- Orderingof Sentences	3	Assessment of Listening & Speaking Skills (5+5)	
NOV	7. The Adventure	1) Sentence re-ordering, dialogue completion and sentence transformation.	3	Writing Book review on any Scientific Fiction	Hand on Learning- to compose an original work of creative writing
	8.Silk Road (Poem)	SPEECH ,DEBATE	3		
II UNIT TEST					
DEC	5. Father to Son (Poem)		3	Travelogues	Co-operative Learning- To create positive reationship with their peers.
		1) Conversationskills		Debates, Group Discussion etc.	
	ASL	2) Practice for ASL	3		
JAN	8.The Tale of Melon City	1) Conversation skills Listening and Speaking skills	5	characters actions in the story.	Team Based Learning engages student to knowledge through individual testing and group collaboration
		2) Practice for ASL	3	Discussion on Origin of Cities	
FEB	REVISION				
MAR	ANNUAL EXAMINATION				

XI Physics Syllabus with Padagogy 2024-25

Month	Unit	CH.No.	Periods	Topic	Practical List	Pedagogical Techniques
June	I.(Physical World and Measurement)	1	14	Physical world: Physics-scope and excitement; nature of physical laws; Physics, technology and society.	1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	1.Story telling - Students love to hear the stories, therefore story tellin is the best method to get their attention in the class.Different objects given to the students for measurment of various parameters .2. Students measured length, breadth, height, intrnal diametr, volumes etc and also done conversion from one system of unit to another. Also they find % error in the measurments.
		2		Units and measurement: Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures.Dimensions of physical quantities, dimensional analysis and its applications.	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.	
July	II.(Kinematics)	3	16	Motion in a straight line: Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs.	3.To determine volume of an irregular lamina using screw gauge.	1.Sports based learning- This is an interesting approach to learn problem solving in Physics. 2.Step wise method to study the complex chemical reactions 3.Solved numaricals to understand the concept and application of velocity, accelaration etc.
		4		Motion in a plane: Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, relative velocity, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion.	4.To determine radius of curvature of a given spherical surface by a spherometer 5.To determine the mass of two different objects using a beam balance.	
	III. (Laws of Motion)	5	12	Laws of motion: ntuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).	6.To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between block and horizontl surface	1. Sports based learning- A game of football and cricket helps them to learn about the probability which can find its use in Physics problems. Sports are mostly played in terms of teams , so students can leran team work. 2. Made a group of students and asked them to design the models. 3. To understand the concept of UCM and dynamics shwon videos. 4. To treat the interst in the topic and quick learning science of stupid videos are shown. UNIT TEST-1

Aug	IV (Work, Energy and Power)	6	7	<p>Work ,energy and power:Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.</p> <p>Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.</p>	7.Using a simple pendulum, plot L-T and L-T ² graphs. Hence find the effective length of second's pendulum using appropriate graph.	<ol style="list-style-type: none"> 1. To understand the generation of different types of energy ask students to make the working models for the explanation of conversion of one form of energy in to another. 2. Demonstration of few practical applications.
	V.Motion of System of Particles and Rigid Body	7	14	<p>System of particles and rotational motion:Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.</p> <p>Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions.</p> <p>Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.</p>		<ol style="list-style-type: none"> 1. To show the science videos to understand the rotational motion of the different objects having different shapes. 2. Use of beam balance to show the concept of CM of rigid body. 3. Discussion with hands of experiments.
	VI.(Gravitation)	8	6	<p>Gravitation:Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth.</p> <p>Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.</p>	8.To study variation of time period of a simple pendulum by changing its length and taking bobs of different masses independently and interpret the result.	<ol style="list-style-type: none"> 1. Demonstrating experimets to understand the Kepler's laws .2. Show various intersting videos to explain the concept of gravitation. 3. Conducting seminars and discussions. 4. Organize QUIZ on the topic.
sep	VII.(Properties of Bulk Matter)	9	15	<p>Mechanical Properties of solids:Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy.</p>	9. To find the force constant of a helical spring by plotting a graph between load and ext	<ol style="list-style-type: none"> 1. On the basis of practcal, explain stress, strain, Young's modulus and Hook's law. 2. Group discussion and sminars
Oct	VII.(Properties of Bulk Matter)	10	21	<p>Mechanical Properties of fluids:Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure.</p> <p>Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications.</p> <p>Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p>	10. To determine the surface tension of water by capillary rise method	<ol style="list-style-type: none"> 1. Explian the concept with the Stoke's law aparatus. 2. Hands on experiments to explain the Pascal's law and Bernoulli's theorem. 3. Demonstration of surface tension phenomenon using soap solution and pepper powder.

		11		<p>Thermal properties of matter:Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.</p> <p>Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Greenhouse effect.</p>	11. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. Activity-4	1. Explain by science videos and demonstraion by cooling apparatus. 2. Demo of conduction, covetion and radiation.
Nov	VIII Thermodynamics	12	18	<p>Thermodynamics:Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat, work and internal energy. First law of thermodynamics, isothermal and adiabatic processes.</p> <p>Second law of thermodynamics: reversible and irreversible processes, Heat engine and refrigerator.</p>		1. Show videos and explain the thermodynamic laws by demonstration. 2. Give HW to the students to collect the related information.
Dec	IX.(Kinetic theory of gases)	13	15	<p>Kinetic Theory:Equation of state of a perfect gas, work done in compressing a gas.</p> <p>Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.</p>	12. To study the relationship between the temperature of a hot body and time by plotting a cooling curve	1. Show videos and explain the kinetic theory of gases. 2. Give HW to the students to collect the related information. 3. Conduct competition to solve the numericals and QUIZ. UNIT TEST-2
Jan	X. (waves and oscillations)	14	26	<p>Oscillations:Periodic motion - time period, frequency, displacement as a function of time, periodic functions.</p> <p>Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.</p>	13.To study the relation between frequency and length of a given wire under constant tension using sonometer. OR	1. Show videos and explain the laws by demonstration. 2. Practical demonstration of SHM and Simple pendulum.
		15		<p>Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.</p>	14.To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.	1. Show videos and explain wave motion by demonstration. 2. Practcal demo of resonance tube experiment. 3. Science Quiz and competition.
Feb	REVISION					Practical Exam
Mar	REVISION					Annual Exam

GREENFINGERS GLOBAL SCHOOL, KHARGHAR
SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-2025

GRADE XI SUBJECT: CHEMISTRY (043)

MONTH	UNIT	TOPICS	NO OF PERIODS	ACTIVITY	PEDAGOGICAL TECHNIQUES
JUNE	1	Some Basic Concepts of Chemistry	12	Group Discussion: Importance of Chemistry in our daily life.	Chemistry touches all aspects of our lives. An experienced instructor is able to connect the depth of the science of chemistry with its every day life importance.
JULY	2	Structure of Atom	14	Lab Activity: 1) Determination of melting point of organic compound. 2) Determination of boiling point of organic compound.	Classify an element as a metal, nonmetal, or metalloid based on its physical and chemical properties.
	3	Classification of Elements and Periodicity in Properties	8		
I UNIT TEST					
AUG	8	Organic Chemistry: Some basic Principles and Techniques	14	Lab Activity: 1) Determination of pH of some solutions. 2) Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.	Student will use various methods to purify organic compounds and appreciate the use of this technique in day to day life.
	5	Chemical Thermodynamics	8		
SEPT	5	Chemical Thermodynamics	8	Group Discussion and Open book test	Students will be able to – 1. Appreciate and realize the justified use of energy and will create awareness about conservation of energy 2. Devise new techniques to conserve energy and start using renewable means of energy.
	MID TERM EXAMINATION				
OCT	6	Equilibrium	14	Investigatory Project: Scientific investigations involving laboratory testing and collecting information from other sources.	On the basis of their knowledge and understanding they will be able to create awareness about above phenomena and hence cope up and guide others to do the same in
	7	Redox Reactions	6		
NOV	4	Chemical Bonding and Molecular Structure	8	Lab Activity: 1) Determination of strength of a given solution of Hydrochloric acid by titrating it against standard solution of Sodium carbonate.	Students will then be challenged to think about the chemical bonds that are essential to the functioning of our body. What bonds exist among atoms within our bodies that are sustaining us.
II UNIT TEST					
DEC	4	Chemical Bonding and Molecular Structure	6	Lab Activity: Detection Acidic and Basic radicals.	1. Students to appreciate use of hydrocarbons for health care and industrial purpose. 2. Students to discourage excessive use of harmful chemicals and to think for the alternating solution.
	9	Hydrocarbons	10		
JAN	9	Hydrocarbons	5	Open book Test	
FEB	REVISION AND PRACTICALS				
MARCH	ANNUAL EXAMINATION				

XI MATH SPLIT-UP SYLLABUS 2024-25

Month	No. of Periods	Units/Sub Units to be taught	Activity	Pedagogy
July	12	Unit-I (23) Marks 1) Sets Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.	A1 (Sets) A2 (Relations and Functions)	Reflective/ Constructive Students will learn concepts in classroom and verify it by doing activity in lab
	10	2) Relations and Functions Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.		
August	12	3) Trigonometric Functions Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2x + \cos^2x = 1$, for all x . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing identities.	A11 (Complex nos.)	Learning by doing or Constructive approach
	10	Unit - II Algebra (25) Marks 5) Complex nos. & Quadratic Equations Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane .		
September	6	6) Linear equation Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.	A14 (Permutation and Combination)	Laboratory method Students will learn by doing activities in lab
	12	7) Permutation and Combination Fundamental principle of counting. Factorial. $(n!)$ Permutations and combinations, derivation of Formulae for nPr and nCr and their connections, simple applications.		
October	8	8) Binomial Theorem History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.	A15 (Binomial) A18 (A.M and G.M)	Inductive approach Students will learn by asking questions in class
	12	9) Sequence & Series Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.		
November	15	Unit-III Co-Ordinate Geometry (12) Marks 10) Straight Lines Brief recall of two dimensional geometry from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.	A20 (St. Lines)	
	6	12) 3D Geometry Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.		
December	12	11) Conic Sections Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	A22 (Parabola) A28 (Limits)	Students will learn by making different shapes and different examples from real life
	10	Unit-IV Calculus (8) Marks 13) Limits and Derivatives Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.		
January	10	Unit-V (12) Marks 15) Statistics Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.	A33 (Probability)	Laboratory method Students will learn by doing activities in lab
	10	16) Probability Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.		
January		Revision		
February		Final Examination		

SYLLABUS FOR ACADEMIC YEAR 2024-25				
SUBJECT: BIOLOGY (044)			CLASS : XI	
MONTH	UNIT	CHAPTERS	PERIODS	PRACTICALS/ACTIVITY
JUNE	UNIT I	Chapter 1: The Living World	23 PERIODS	Study of the parts of
	Diversity of Living Organisms	Chapter 2 : Biological Classification		compound Microscope
		Chapter 3 : Plant Kingdom		Study of the specimens and identifications with reasons
		Chapter 4 : Animal Kingdom		
UNIT TEST I				
JULY	UNIT : II	Chapter: 5 Morphology of Flowering Plants	22 PERIODS	Study and describe common flowering plants of family solanace
	STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS	Chapter 6: Anatomy of Flowering Plants		T.S. of Dicot and monocot root and stems
		Chapter 7: Structural Organization in Animals		Study of distribution of stomata
				Study of different inflorescence
AUGUST	UNIT : III	Chapter : 8 : Cell-The Unit of Life	35 PERIODS	Study of osmosis by potato
	Cell : Structure and functions	Chapter: 9 : Biomolecules		osmometer
				Study of plasmolysis
				Study of mitosis in onion root tip
MID TERM				
SEPTEMBER		Chapter: 10 : Cell Cycle and Cell Division		
OCTOBER	UNIT: IV	Chapter: 13 : Photosynthesis	25 PERIODS	Separation of plant pigments through paper chromatography
	PLANT PHYSIOLOGY	Higher Plants		Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
		Chapter: 14 : Respiration in Plants		
NOVEMBER		Chapter: 15 : Plant - Growth and Development		
	UNIT : V	Chapter 17 : Breathing and Exchange of Gases	43 PERIODS	
	HUMAN			
DECEMBER	PHYSIOLOGY	Chapter: 18 : Body Fluids and Circulation		
UNIT TEST II				
		Chapter: 19 : Excretory Products and Their Elimination		To test the presence of Urea in urine
				To test the presence of sugar in urine.
		Chapter: 20 : Locomotion and		To test the presence of albumin .

		Movement	To test the presence of bile salts.
JANUARY		Chapter: 21: Neural Control and Coordination	Study of human skeleton and different types of joints
		Chapter:22; Chemical Control and Coordination	
FEBRUARY		REVISION	

GREENFINGERS GLOBAL SCHOOL,KHARGHAR

SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-2025

GRADE:XI

SUBJECT:COMPUTER SCIENCE(083)

MONTH	UNIT	NO OF PERIODS	TOPICS / SUB-TOPIC	ACTIVITY	PEDAGOGICAL TECHNIQUES
JUNE	UNIT - 1 COMPUTER SYSTEMS AND ORGANIZATION	5	1.COMPUTER SYSTEMS ORGANIZATION	TO MAKE PPT PRESENTATION FOR COMPUTER SYSTEMS	THINK-PAIR-SHARE CAN BE PROJECTED AT DIFFERENT INTERVALS OF A PRESENTATION TO ALLOW STUDENTS TO REFLECT ON AND DISCUSS WITH A PARTNER WHAT HAS BEEN PRESENTED.
JULY	UNIT - 1 COMPUTER SYSTEMS AND ORGANIZATION	6	2.DATA REPRESENTATION AND BOOLEAN LOGIC	TO MAKE ELCTRIC MODEL WITH ALL GATES	1.TO SHOW INTRESTING VIDEOS. 2. EXPLAIN ALL THE STEPS FOR MODEL MAKING.
	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	6	3. GETTING STARTED WITH PYTHON	INSTALLATION OF PYTHON SOFTWARE	EXPLAIN ALL THE STEPS OF SOFTWARE INSTALLATION.
AUGUST	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	8	4. PYTHON PROGRAMMING FUNDAMENTALS	DEMONSTRATION OF PYTHON PROGRAMMING	1.PEER INSTRUCTION ACTIVITY.2. THINK PAIR SHARE ACTIVITY.
	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	10	5. CONDITIONAL AND LOOPING CONSTRUCTS	DEMONSTRATION OF PYTHON PROGRAMMING	
SEPTEMBER	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	8	6.STRINGS IN PYTHON	PPT PRESENTATION	1. QUIZ 2. GROUP DISCUSSION
		8	7.LISTS IN PYTHON		
OCTOBER	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	12	8.TUPLES AND DICTIONARY	DEMONSTRATION OF PYTHON PROGRAMMING	1. FLIPPED CLASSROOM 2. GROUP DISCUSSION
		8	9.INTRODUCTION TO PYTHON MODULES		
NOVEMBER	UNIT - 3 SOCIETY,LAW AND ETHICS	10	10.SOCIETY,LAW AND ETHICS	DEBATE COMPETITION	1. PEER INSTRUCTION 2. THINK PAIR SHARE
DECEMBER	UNIT - 3 SOCIETY,LAW AND ETHICS	8	11. CYBER SAFETY	GROUP DISCUSSION	FLIPPED CLASSROOM
JANUARY	REVISION				
FEBRUARY	REVISION /PRACTICAL/THEORY EXAMINATION				
MARCH	ANNUAL EXAMINATION				

GREENFINGERS GLOBAL SCHOOL					
PHYSICAL EDUCATION(048) SYLLABUS XI 2024-2025					
Month	L.No	Topics	Pedagogy	Practical	
June	1	Unit-I: Changing Trends & Career In Physical Education			
		Concept,Aims & Objectives of Physical Education	Different tests are taught by immitation method to check the physical fitness with the help of motor fitness test.	Yoga- Pranayama.	
		Development of Physical Education in India.			
		Changing trends in Physical Education	Students learn new skills to polish their physical fitness components by participating by immitation method.		
		Career Options in Physical Education			
		Khelo-India Program			
		2	Unit-II: Olympism Value Education		
			Olympism – Concept and Olympics Values	To understand the relation of nutrition and sports and how it helps a player to enhance their performance level.	Physical Fitness Test: SAI Khelo India Test
			Olympic Value Education		
		Ancient and Modern Olympics	practical knowledge given with the help of demonstration method	Practical-1: Fitness tests administration in the journal.	
		Olympics - Symbols, Motto, Flag, Oath, and Anthem			
		Olympic Movement Structure - IOC, NOC, IFS, Other members			
July	3	Unit-III: Yoga			
		Meaning and importance of Yoga	Various Yogasanas are taught by demonstration.	Proficiency in Games and Sports	
		Introduction to Astanga Yoga	Students learn new asanas by practically performing the asanas.		
		Yogic Kriyas (Shat Karma)			
		Pranayama and its types.			
		Active Lifestyle and stress management through Yoga			
		4	Unit-IV: Physical Education & Sports for CWSN.		
			Concept of Disability and Disorder	Explain the concept with the help of videos.	Game of choice practice and test.
			Types of Disability, its causes & nature.	Students learn by understaning through observation.	
		Disability Etiquette			
		Aim and objectives of Adaptive Physical Education			
		Role of various professionals for children with special needs.			
August	5	Unit-V: Physical Fitness, Wellness, and Lifestyle			

		Meaning & importance of Wellness, Health, and Physical Fitness.	Videos and Diagrams are shown to the children	Yogic Practices
		Components/Dimensions of Wellness, Health, and Physical Fitness	to understand in a better way	Procedure for Asanas,
		Traditional Sports & Regional Games for promoting wellness	Student learn by Observing the videos and	& Contraindication
		Leadership through Physical Activity and Sports	Diagrams.	Benefits for any two Asanas
		Introduction to First Aid – PRICE		for each lifestyle disease- journal.
		6 Unit-VI: Test, Measurement & Evaluation		
		Define Test, Measurements and Evaluation.	Practical demonstration given to the children.	Athletics.
		Importance of Test, Measurements and Evaluation in Sports.	Different objects given to the students	
		Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site	to the students for measurement of various	
		Somato Types (Endomorphy, Mesomorphy & Ectomorphy)	Students understand by participating as a student	
		Measurements of health-related fitness	and then conducting the tests also.	
September		7 Unit-VII: Fundamentals of Anatomy, Physiology in Sports		
		Definition and importance of Anatomy and Physiology	Class Seminars topic given to the students	Fitness test practice.
		Functions of Skeletal System.	Students learn by presenting their given topic	
		Properties and Functions of Muscles.	in front of the class.	
		Structure and Functions of Circulatory System and Heart.		
		Structure and Functions of Respiratory System		
		8 Unit-VIII: Fundamentals Of Kinesiology And Biomechanics in		
		Definition and Importance of Kinesiology and Biomechanics in Sport	Home work given to the Students	Anyone one IOA
		Principles of Biomechanics	Students learn and revise by homework method.	recognized Sport/Game of choice.
		Kinetics and Kinematics in Sports		
		Types of Body Movements.		
		Axis and Planes – Concept and its application in body movements		
October		9 Unit-IX: Psychology & Sports		
		Definition & Importance of Psychology in Physical Education & Spor	explanation of topic with the help of practical	Game of choice skills.
		Developmental Characteristics at Different Stages of Development;	performance	
		Adolescent Problems & their Management	Students understand by immitation method	
		Team Cohesion and Sports		
		Introduction to Psychological Attributes		

	10 Unit-XI: Training & Doping in Sports		
	Concept and Principles of Sports Training	Practical demonstration of major games	Harvard step test.
	Training Load: Over Load, Adaptation, and Recovery	Students learn by participating and practicing	
	Warming-up & Limbering Down – Types, Method & Importance	the skills.	
	Concept of Skill, Technique, Tactics & Strategies		
	Concept of doping & its disadvantages		
November	Revision.		

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JUNE	1) The Portrait of A Lady	1.Short Composition: Notices & Note Making	5	Note making from any Newspaper article	Context based learning -Open ended instruction to improve creative thinking, memory and writing skills of the students based upon general instructions
	2.A Photograph (Poem)	2.Clauses & syntensis of sentences	4	Communicative skills	
	1. The Summer of the Beautiful White Horse	Practice for ASL	5		
I UNIT TEST (JULY)					
JULY	2. We're Afraid ToDie..... If We Can All Be Together	1) Comprehension Passages : Factual, Literary and	5	Reading Project (Critical evaluation of the plot, Story,character s etc.)	Peer learning and Group dynamics wherein students think and answer to develop their oral skills which are used in realistic situations.
	2.The Laburnum Top (Poem)	2) Discursive Passages	4	Extensive Reading(Books on Adventurous Travels)	
	2. The Address	NOTE MAKING AND SUMMARY	6	Audio recordings for promoting listening skills.	
AUG	3.Discovering Tut :The Saga Continues	POSTER MAKING	6	Travelogues	
	3.The voice of the Rain (Poem)	ADVERTISEMENT	6		
	5.Mother's Day		6	POSTER MAKING	
MID TERM EXAM (SEPTEMBER)					
SEPT	7..Birth	1)Articles,Speeches,& Reports	3	Dramatization of the Novel (Group activity for children to show case their acting	Art Integration incorporating ideas to enhance their individual style and tone.
	4. Childhood (Poem)	2) Error Correction,Editing the Text&Re- Orderingof Sentences	3	Assessment of Listening & Speaking Skills (5+5)	
NOV	7. The Adventure	1) Sentence re-ordering, dialogue completion and sentence transformation.	3	Writing Book review on any Scientific Fiction	Hand on Learning- to compose an original work of creative writing
	8.Silk Road (Poem)	SPEECH ,DEBATE	3		
II UNIT TEST					
DEC	5. Father to Son (Poem)		3	Travelogues	Co-operative Learning- To create positive reationship with their peers.
		1) Conversationskills		Debates, Group Discussion etc.	
	ASL	2) Practice for ASL	3		
JAN	8.The Tale of Melon City	1) Conversation skills Listening and Speaking skills	5	characters actions in the story.	Team Based Learning engages student to knowledge through individual testing and group collaboration
		2) Practice for ASL	3	Discussion on Origin of Cities	
FEB	REVISION				
MAR	ANNUAL EXAMINATION				

GREENFINGERS GLOBAL SCHOOL KHARGHAR
CLASS XI SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-25
SUBJECT - ACCOUNTS (055)

SR: NO	MONTH	PERIODS	TOPIC SUBTOPIC	PEDAGOGICAL STRATEGY	ACTIVITIES / PROJECTS
1	JUNE	5	PART A: FINANCIAL ACCOUNTING - I CHAPTER 1 : Introduction to Accounting Accounting- concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business.	Various business terms practical discussion done with case studies	NEWS AND MAGAZINE CUTTINGS OF FEW BUSINESS ACCOUNTING TERMINOLOGY.
		5	CHAPTER 2 : Basic accounting terms Entity, Business Transaction, Capital, Drawings. Liabilities (Non Current and Current). Assets (Non Current, Current); Expenditure (Capital and Revenue), Expense, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount)	Project based teaching.	QUIZ
2	JULY	5	CHAPTER 3 : Unit -1 : Theory Base of Accounting, Fundamental accounting assumptions: GAAP: Concept, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, cash basis and accrual basis Accounting Standards (AS) and Indian Accounting Standards (IndAS) Goods and Services Tax (GST) Characteristics and Advantages. Unit-2: Accounting Process	Case study of companies with their documents.	
		8	CHAPTER 4 : Bases of accounting Meaning; cash basis of accounting, accrual basis of accounting, Difference between cash and accrual basis of accounting.	Collaborative teaching with differentiation.	
		8	CHAPTER 5 : Accounting equation, Meaning of accounting equation, Effect of transactions on accounting equation, Process of preparing accounting equation, Rules of accounting equations, Effects of adjustments transactions on accounting equation.	Case study of Assets liabilities of various business units discussed.	
		JULY UT - I			
3	AUGUST	5	CHAPTER 6 : Accounting procedures -Rules of debit and credit. Meaning of an account, Meaning of debit and credit, Rules of debit and credit, Classification of accounts, Balancing of account, Significance of debit and credit balance in accounts.	Traditional and modern classification table with case study.	FLOW CHART
		5	CHAPTER 7 : Origin of transactions & vouchers : Source, preparation of documents and Vouchers, Preparation Vouchers.	Inquiry and factual based teaching of source documents.	PROJECT BASED
		8	CHAPTER 8 : JOURNAL - Meaning of journal and journalising, Characteristic and advantages of journal. Limitation of journal, steps in journalising, Simple and compound journal entries, Discount and rebate, Difference between trade discount rebate and cash discount.	Case study of business units with various transactions of various business firm solved .	PROJECT ON CASE STUDY
4	SEPTEMBER	8	CHAPTER 9 : LEDGER - Meaning of ledger, features and utilities of ledger, format of ledger account, Mechanics of posting, Balancing of ledger accounts, difference between journal and ledger.	Case study of business units with ledger accounts of various business firm solved .	PROJECT ON BUSINESS CASE STUDY.
		8	CHAPTER 10 : Special purpose book - Cash book : Simple, cash book with bank column and petty cashbook, Purchases book.	Case study of various business units with cash book discussed and practised.	Mind map activity.
5	OCTOBER	8	CHAPTER 11 : Special purpose books - other books. Sales Book, Purchases return book, Sales Return book, Journal Proper.	Format and lecture based teaching.	PROJECTS
		5	CHAPTER 12 : Accounting of goods and service tax GST: Meaning of GST, Objectives, characteristics, categories of GST.	Case study method adopted to teach business and GST.	PROJECTS
6	NOVEMBER	8	CHAPTER 13 : Bank reconciliation statement- Need and preparation, Bank Reconciliation Statement.	Discussion on Cash books and pass book documents.	PROJECTS
		5	CHAPTER 14 : Trial balance -Meaning , characteristics, objectives and and limitations of trial balance.	Solving and lecture based Data teaching of business	FLOW CHART ACTIVITY
7	DECEMBER	12	CHAPTER 15 : Depreciation provisions Reserves. Meaning, Features Causes, factors, Amortisation i. Straight Line Method (SLM), ii. Written Down Value Method (WDV), Note: Excluding change of method. Advantages of SLM and WDV. Charging to asset account, Creating provision for depreciation/accumulated depreciation account. Provisions and Reserves. Revenue reserve, Capital reserve, General reserve, Specific reserve, Secret Reserve. reserve.	Case study of various business units with different types of assets and rate of depreciation	PROJECT
		8	CHAPTER 16 : Rectification of Errors : Errors: classification-errors of omission, commission, principles, and compensating; their effect on Trial Balance - Errors which do not affect trial balance, Errors which affect trial balance.	Discussion on case study with financial statements.	FLOW CHARTS.
		December - UT - II			
8	JANUARY	15	Part B: Financial Accounting - II CHAPTER 17 : Financial Statements of sole proprietor. Meaning, objectives and importance; Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journal entry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit. Preparation. Balance Sheet: need, grouping and marshalling of assets and liabilities. Preparation. Adjustments in preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, Abnormal loss, Goods taken for personal use/staff welfare, interest on capital and managers commission. Preparation of Trading and Profit and Loss account and Balance Sheet of a sole proprietorship with adjustments.	Solving and discussion on Various business entity financial statements .	PROJECT
		5	CHAPTER 18 : Incomplete Records Accounting - Features, reasons and limitations. Ascertainment of Profit/Loss by Statement of Affairs method. (excluding conversion method).	Financial statements of various not profit making enterprises was the base.	
	JANUARY	SYLLBUS COMPLETION & REVISION			
	FEBRUARY	REVISION & PRACTICALS			
	MARCH	FINAL EXAMINATION			

GREENFINGERS GLOBAL SCHOOL KHARGHAR
CLASS XI SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-25
SUBJECT - BUSINESS STUDIES (054)

SR NO	MONTH	PERIOD	TOPIC-SUBTOPIC	PEDAGOGICAL STRATEGY	ACTIVITIES/ PROJECTS
1	JUNE	18	Unit 1: Evolution and Fundamentals of Business History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centres, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy Business – meaning and characteristics Business, profession and employment – Concept Objectives of business Classification of business activities - Industry and Commerce Industry-types: primary, secondary, tertiary Meaning and subgroups Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) – meaning Business risk-Concept	Brain storming and collaborative discussion on the current knowledge of business history in india	QUIZ
2	JUNE	24	Unit 2: Forms of Business organizations : Sole Proprietorship-Concept, merits and limitations Partnership Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners Hindu Undivided Family Business: Concept Cooperative Societies-Concept, merits, and limitations Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept Formation of company - stages, important documents to be used in formation of a company Choice of form of business organization	Features of various organisations compared with their working policies by discussing various case study. Flow chart activity conducted.	CHART MAKING
3	JULY	18	Unit 3: Public, Private and Global Enterprises : Public sector and private sector enterprises – Concept Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company Global Enterprises – Feature Joint venture Public private partnership – concept	Format of working of various public sectors. discussed with case study and collaborative discussions	MIND MAPS MAKING
4	JULY	18	Unit 4: Business Services : Business services – meaning and types. Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking: meaning, types of digital payments Insurance – Principles. Types – life, health, fire and marine insurance – concept Postal Service - Mail, Registered Post, Parcel, Speed Post, Courier - meaning	Functional working of various business service discussed with various case studies projects on business services	BROCHURE MAKING
UT - I					
5	AUGUST	10	Unit 5: Emerging Modes of Business : E - business: concept, scope and benefits	Various live example of business sites online discussed.	CURRENT EVENTS IN E-BUSINESS DOCUMENT MAKING
6	AUGUST	12	Unit 6: Social Responsibility of Business and Business Ethics : Concept of social responsibility Case of social responsibility Responsibility towards owners, investors, consumers, employees, government and community Role of business in environment protection	Various case studies discussed on business ethics and code of conduct	QUIZ
7	SEPTEMBER	30	Unit 7: Sources of Business Finance : Business Ethics - Concept and Elements Concept of business finance Owners' funds- equity shares, preferences share, retained earnings Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD)	Classification table of funds discussed.	DOCUMENT MAKING
8	OCTOBER	16	Unit 8: Small Business and Enterprises : Entrepreneurship Development (ED): Concept, Characteristics and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund start-up. Intellectual Property Rights and Entrepreneurship Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act) Role of small business in India with special reference to rural areas Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas	Policies and programmes of small business units discussed.	NEWS PAPER CUTTINGS
9	NOV	30	Unit 9: Internal Trade : Internal trade - meaning and types services rendered by a wholesaler and a retailer Types of retail-trade-Itinerant and small scale fixed shops retailers Large scale retailers-Departmental stores, chain stores – concept GST (Goods and Services Tax): Concept and key-features	Classification table of trade was the basis.	MIND MAPS MAKING
10	DECEMBER	14	Unit 10: International Trade : International trade: concept and benefits Export trade – Meaning and procedure Import Trade - Meaning and procedure Documents involved in International Trade; indent, letter of credit, shipping order, shipping bills, mate's receipt (DA/DP) World Trade Organization (WTO) meaning and objectives	Classification table of international trade was the basis.	Project on procedure of import and export trade
UT - II					
	JANUARY	SYLLBUS COMPLETION & REVISION			
	FEBUARY	REVISION & PRACTICALS			
	MARCH	FINAL EXAMINATION			

GREENFINGERS GLOBAL SCHOOL, KHARGHAR

SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-25

GRADE: XI SUBJECT: ECONOMICS (030)

MONTH	UNIT	TOPICS	PERIODS	ACTIVITY	PEDAGOGY
JUNE	Unit 4	Microeconomics and Macroeconomics, Production Possibility Frontier and Opportunity Cost	15	To express the basic economic concepts by drawing/ cartoons/doodle	Art Integrated Learning Pedagogy
	Unit 1	Meaning, scope, functions and importance of statistics in			
JULY	Unit 2	Collection, Organisation and Presentation of Data	30	Frame questionnaire collect data from economic survey	Project-based Learning Pedagogy
	I UNIT TEST				
	Unit 5	Conditions of consumer's equilibrium using MU analysis. Indifference curve analysis of consumer's equilibrium	40	Role play	Team based learning
AUG	Demand & Price Elasticity of Demand				
SEPT	Unit 3	Statistical Tools and Interpretation Measures of Central Tendency - Arithmetic mean, Median and Mode	22	Construction of Time Series graph - GFGS school data	Critical pedagogical approach
MID-TERM EXAMINATION					
OCT	Unit 6	Producer Behaviour and Supply - Production Function	35	Game - Variable Proportions	Flipped Learning
	Unit 6	Producer Behaviour and Supply - Cost; Revenue; Producer's equilibrium; Supply, Price Elasticity of Supply		Case Study Discussion & concept mapping	
NOV	Unit 7	Forms of Market and Price Determination under Perfect Competition with simple applications.	15	Application to real life - Case Studies	Content Based Learning
II UNIT TEST					
DEC	Unit 3	Correlation - Scatter Diagram & Measures of correlation	13		Learning by Doing
	Developing Project in Economics using Statistical Tools				
JAN	Unit 3	Introduction to Index Numbers - uses of index numbers; Inflation and index numbers	15	Newspaper cuttings of recent news on IIP, inflation, etc.	Critical pedagogical approach
FEB	Revision and Practical Examination				
MARCH	Annual Examination				

XI APPLIED MATH SPLIT-UP SYLLABUS 2024-25

Month	No. of Periods	Units/Sub Units to be taught	Pedagogical strategy	Activity
July	15	UNIT - 1 NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS (9) Marks Numbers & Quantification Binary Numbers,Indices, Logarithm and Antilogarithm,Laws and properties of logarithms,Simple applications of logarithm and antilogarithm Numerical Applications Averages,Clock,Calendar,Time, Work and Distance,Mensuration,Seating arrangement,Subsets,	The students will solve selected sums from textbook with help of teacher (critical thinking)	The cardinality of a set and orders of infinity
	10	UNIT – 2 ALGEBRA (15) Marks Sets Introduction to sets – definition,Representation of sets,Types of sets and theirnotations,Intervals, Venn diagrams,Operations on sets		
August	12	Relations Ordered pairs Cartesian product of two sets,Relations, Sequences and Series Sequences and Series,Arithmetic Progression,Geometric Progression,Applications of AP and GP Permutations and Combinations Factorial,Fundamental Principle of Counting,Permutations,Combinations	Brain storming- the class would start with discussuion on what the students have already learnt in previous class .	Use of Venn diagram in solving practical problems
	10	UNIT -3 MATHEMATICAL REASONING (6) Marks Logical reasoning Odd man out,Syllogism,Blood relations, Coding Decoding		
September	15	UNIT – 4 CALCULUS (10) Marks .Functions, Domain and Range of a function,Types of functions,Graphical representation of functions, Concepts of limits and continuity of a function,Instantaneous rate of change,Differentiation as a process of finding derivative, Derivatives of algebraic functions using Chain Rule	solving different types of question from textbook and competency based question	Plot the graph of function on excel
October	8	UNIT – 5 PROBABILITY (8) Marks Introduction,Random experiment and sample space,Event,Conditional Probability,Total Probability, Bayes' Theorem		Calculating average, intrest(simple & compound)
	12	UNIT- 6 DESCRIPTIVE STATISTICS (12) Marks Measure of Dispersion,Skewness and Kurtosis,Percentile rank and Quartile rank,Correlation		
November	20	UNIT – 7 FINANCIAL MATHEMATICS (15) Marks Interest and Interest Rates,Accumulation with simple and compound interest,Simple and compound interest rates with equivalency,Effective rate of interest,Present value, net present value and future value	The students will solve selected sums from textbook with help of teacher (critical thinking)	
December	15	Annuities, Calculating value of Regular Annuity,Simple applications of regular annuities (upto 3 period) Tax, calculation of tax, simple applications of tax calculation in Goods and service tax, Income Tax, Bills, tariff rates, fixed charge, surcharge, service charge,Calculation and interpretation of electricity bill, water supply bill and other supply bills	understanding and drawing skills in graphs with accuracy ,Analytical and application	
January	12	UNIT – 8 COORDINATE GEOMETRY (5) Marks Straight line,Circle,Parabola	relate with previous knowledge and day to day daily life problems. Drawing	
January		Revision		
February		Final Examination		

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SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-2025

GRADE:XI

SUBJECT:COMPUTER SCIENCE(083)

MONTH	UNIT	NO OF PERIODS	TOPICS / SUB-TOPIC	ACTIVITY	PEDAGOGICAL TECHNIQUES
JUNE	UNIT - 1 COMPUTER SYSTEMS AND ORGANIZATION	5	1.COMPUTER SYSTEMS ORGANIZATION	TO MAKE PPT PRESENTATION FOR COMPUTER SYSTEMS	THINK-PAIR-SHARE CAN BE PROJECTED AT DIFFERENT INTERVALS OF A PRESENTATION TO ALLOW STUDENTS TO REFLECT ON AND DISCUSS WITH A PARTNER WHAT HAS BEEN PRESENTED.
JULY	UNIT - 1 COMPUTER SYSTEMS AND ORGANIZATION	6	2.DATA REPRESENTATION AND BOOLEAN LOGIC	TO MAKE ELCTRIC MODEL WITH ALL GATES	1.TO SHOW INTRESTING VIDEOS. 2. EXPLAIN ALL THE STEPS FOR MODEL MAKING.
	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	6	3. GETTING STARTED WITH PYTHON	INSTALLATION OF PYTHON SOFTWARE	EXPLAIN ALL THE STEPS OF SOFTWARE INSTALLATION.
AUGUST	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	8	4. PYTHON PROGRAMMING FUNDAMENTALS	DEMONSTRATION OF PYTHON PROGRAMMING	1.PEER INSTRUCTION ACTIVITY.2. THINK PAIR SHARE ACTIVITY.
	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	10	5. CONDITIONAL AND LOOPING CONSTRUCTS	DEMONSTRATION OF PYTHON PROGRAMMING	
SEPTEMBER	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	8	6.STRINGS IN PYTHON	PPT PRESENTATION	1. QUIZ 2. GROUP DISCUSSION
		8	7.LISTS IN PYTHON		
OCTOBER	UNIT - 2 COMPUTATIONAL THINKING AND PROGRAMMING-1	12	8.TUPLES AND DICTIONARY	DEMONSTRATION OF PYTHON PROGRAMMING	1. FLIPPED CLASSROOM 2. GROUP DISCUSSION
		8	9.INTRODUCTION TO PYTHON MODULES		
NOVEMBER	UNIT - 3 SOCIETY,LAW AND ETHICS	10	10.SOCIETY,LAW AND ETHICS	DEBATE COMPETITION	1. PEER INSTRUCTION 2. THINK PAIR SHARE
DECEMBER	UNIT - 3 SOCIETY,LAW AND ETHICS	8	11. CYBER SAFETY	GROUP DISCUSSION	FLIPPED CLASSROOM
JANUARY	REVISION				
FEBRUARY	REVISION /PRACTICAL/THEORY EXAMINATION				
MARCH	ANNUAL EXAMINATION				

GREENFINGERS GLOBAL SCHOOL					
PHYSICAL EDUCATION(048) SYLLABUS XI 2024-2025					
Month	L.No	Topics	Pedagogy	Practical	
June	1	Unit-I: Changing Trends & Career In Physical Education			
		Concept,Aims & Objectives of Physical Education	Different tests are taught by immitation	Yoga- Pranayama.	
		Development of Physical Education in India.	method to check the physical fitness with		
		Changing trends in Physical Education	the help of motor fitness test.		
		Career Options in Physical Education	Students learn new skills to polish their		
		Khelo-India Program	physical fitness components by participating		
			by immitation method.		
		2	Unit-II: Olympism Value Education		
			Olympism – Concept and Olympics Values	To understand the relation of nutrition and	Physical Fitness Test: SAI Khelo
			Olympic Value Education	sports and how it helps a player to enhance	India Test
		Ancient and Modern Olympics	their performance level.	Practical-1: Fitness tests	
		Olympics - Symbols, Motto, Flag, Oath, and Anthem	practical knowledge given with the help of	administration in the journal.	
		Olympic Movement Structure - IOC, NOC, IFS, Other members	demonstration method		
July	3	Unit-III: Yoga			
		Meaning and importance of Yoga	Various Yogasanas are taught by demonstration.	Proficiency in Games and Sports	
		Introduction to Astanga Yoga	Students learn new asanas by practically		
		Yogic Kriyas (Shat Karma)	performing the asanas.		
		Pranayama and its types.			
		Active Lifestyle and stress management through Yoga			
		4	Unit-IV: Physical Education & Sports for CWSN.		
			Concept of Disability and Disorder	Explain the concept with the help of videos.	Game of choice practice and test.
			Types of Disability, its causes & nature.	Students learn by understanding through	
		Disability Etiquette	observation.		
		Aim and objectives of Adaptive Physical Education			
		Role of various professionals for children with special needs.			
August	5	Unit-V: Physical Fitness, Wellness, and Lifestyle			

	Meaning & importance of Wellness, Health, and Physical Fitness.	Videos and Diagrams are shown to the children	Yogic Practices
	Components/Dimensions of Wellness, Health, and Physical Fitness	to understand in a better way	Procedure for Asanas,
	Traditional Sports & Regional Games for promoting wellness	Student learn by Observing the videos and	& Contraindication
	Leadership through Physical Activity and Sports	Diagrams.	Benefits for any two Asanas
	Introduction to First Aid – PRICE		for each lifestyle disease- journal.
	6 Unit-VI: Test, Measurement & Evaluation		
	Define Test, Measurements and Evaluation.	Practical demonstration given to the children.	Athletics.
	Importance of Test, Measurements and Evaluation in Sports.	Different objects given to the students	
	Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site	to the students for measurement of various	
	Somato Types (Endomorphy, Mesomorphy & Ectomorphy)	Students understand by participating as a student	
	Measurements of health-related fitness	and then conducting the tests also.	
September	7 Unit-VII: Fundamentals of Anatomy, Physiology in Sports		
	Definition and importance of Anatomy and Physiology	Class Seminars topic given to the students	Fitness test practice.
	Functions of Skeletal System.	Students learn by presenting their given topic	
	Properties and Functions of Muscles.	in front of the class.	
	Structure and Functions of Circulatory System and Heart.		
	Structure and Functions of Respiratory System		
	8 Unit-VIII: Fundamentals Of Kinesiology And Biomechanics in		
	Definition and Importance of Kinesiology and Biomechanics in Sport	Home work given to the Students	Anyone one IOA
	Principles of Biomechanics	Students learn and revise by homework method.	recognized Sport/Game of choice.
	Kinetics and Kinematics in Sports		
	Types of Body Movements.		
	Axis and Planes – Concept and its application in body movements		
October	9 Unit-IX: Psychology & Sports		
	Definition & Importance of Psychology in Physical Education & Spor	explanation of topic with the help of practical	Game of choice skills.
	Developmental Characteristics at Different Stages of Development;	performance	
	Adolescent Problems & their Management	Students understand by imitation method	
	Team Cohesion and Sports		
	Introduction to Psychological Attributes		

	10 Unit-XI: Training & Doping in Sports		
	Concept and Principles of Sports Training	Practical demonstration of major games	Harvard step test.
	Training Load: Over Load, Adaptation, and Recovery	Students learn by participating and practicing	
	Warming-up & Limbering Down – Types, Method & Importance	the skills.	
	Concept of Skill, Technique, Tactics & Strategies		
	Concept of doping & its disadvantages		
November	Revision.		

GREENFINGERS GLOBAL SCHOOL, KHARGHAR

SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-25

GRADE: XII SUBJECT: ENGLISH

MONTH	FLAMINGO/ VISTAS	L. NO	LESSON NAME	NO.OF PERIODS	PROJECT/ ACTIVITY	PEDAGOGY
	UNIT					
APRIL	FLAMINGO	1	THE LAST LESSON (PROSE)	4	CLASS DISCUSSION: life in the earlier times was much happier and the people in that time weren't anxious or fearful	Context based learning - Open ended instruction to improve creative thinking, memory and writing skills of the students based upon general instructions
		1	MY MOTHER AT SIXTY SIX (POETRY)	2		
		2	THE LOST SPRING	4		
	VISTAS	1	THE THIRD LEVEL	2		
		2	THE TIGER KING (PROSE)	3		
	WRITING		NOTICE	2		
JUNE		I UNIT TEST				
	FLAMINGO	3	DEEP WATER	4	JUST A MINUTE SPEECH ON GIVEN TOPICS; NARRATION BASED ON MYSTERY/ ART INTERGARTED	Adaptive Learning - Students shall develop their awarness by listening to their peers through actual participation.
		4	THE RATTRAP	5		
		3	KEEPING QUIET (POETRY)	2		
	VISTAS	3	JOURNEY TO THE END OF THE EARTH	3		
		4	THE ENEMY	3		
	WRITING		LETTER WRITING FORMAL , INVITATION REPLIES	4	POWER PONIT PRESENTATION ON GIVEN TOPICS, POETRY RECITATION IN A MUSICAL WAY/ FLIPCLASS	Team Based Learning engages student to knowledge through individual testing and group collaboration
			FORMAL INFORMAL	4		
	JULY	FLAMINGO	5	INDIGO	3	CONDUCTING AN INTERVIEW WITH AN EMINENT PERSONALITY OF YOUR LOCALITY
6			POETS AND PANCAKES	4		
VISTAS		4	A THING OF BEAUTY	2		
		5	SHOULD WIZARD HIT MOMMY	3		
		6	ON FACE OF IT	3		
		II UNIT TEST				
WRITING		7	ARTICLE WRITING	3		
	3	THE INTERVIEW (PROSE)	3			

AUG	FLAMINGO	6	GOING PLACES	3	FLIP CLASS/ART INTERGATED PROJECT	Adaptive Learning - Students shall develop their awarness by listening to their peers through actual participation.
		4	THE ROADSIDE STAND (POETRY)	2		
	VISTAS	5	AUNT JENNIFER'S TIGER (POETRY)	3		
		7	EVANS TRIES AN O-LEVEL	3		
	8	MEMORIES OF CHILHOOD	3			
WRITING		JOB APPLICATION	3			
SEPT	FLAMINGO		REVISION	2	LISTENING AND SPEAKING ACTIVITY	Context based learning - Open ended instruction to improve creative thinking, memory and writing skills of the students based upon general instructions
			INFORMAL (NIVITATIONS AND REPLIES)	2		
	WRITING		REPORT WRITING	2		
	VISTAS		REVISION	2		
	FLAMINGO		REVISION	2		
MID TERM EXAMINATION						
OCT	ASL		ARTICLE WRITING /REPORT WRITING	2	LISTENING AND SPEAKING ACTIVITY	
	WRITING		ASL LISTENING	2		
NOV	Revision & Pre-board examination					
DEC	Revision & Pre-board examination					
JAN	Revision & Board practicals					
FEB	Revision & Board practicals					
MARCH	Board Examination					

XII Physics syllabus 2024-25

Month	Unit	CH.No.	Periods	Topic	Practical List	Pedagogical Techniques
April	1.Electrostatics	1	22	<p>Electric charges and fields: Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.</p> <p>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.</p> <p>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).</p>	<p>1.To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.</p> <p>2.To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material</p>	<p>1. Show interesting 3D videos.</p> <p>2. Explain the concept using simulations.</p> <p>3. Solving examples step by step.</p>
		2		<p>Electrostatic potential and capacitance: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.</p> <p>Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.</p>		
April / May	2.Current Electricity	3	20	<p>Current Electricity:Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance.Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, metre bridge.</p> <p>Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell.</p>	<p>3.To verify the laws of combination (series)of resistances using a metre bridge.</p> <p>Activity -1</p>	<p>1. Explain the concepts through simulated videos through electrical circuits.</p> <p>2. Show the components (L,C,R) and ask student to calculate values from color code method.</p> <p>3. To understand complicated Kirchoffs circuit ask student to solve number of numericals.</p> <p>4. Demonstration of potentiometer and meter bridge. Performance of practical.</p>

June	3.Magnetic Effects of Current and Magnetism	4	22	<p>Moving charges and magnetism:Concept of magnetic field, Oersted's experiment.</p> <p>Biot - Savart law and its application to current carrying circular loop.</p> <p>Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields, Cyclotron.</p> <p>Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.</p>	<p>3.To verify the laws of combination (Parallel)of resistances using a metre bridge.</p> <p>4.To compare the EMF of two given primary cells using potentiometer.</p>	<p>1.Hands on experiments to understand the basic concept of magnetism.</p> <p>2.Distinguish between electricity and magnetism.</p> <p>3. Demo using hand gestures.</p> <p>4.Science QUIZ to understand the basic questions.</p>
		5		<p>Magnetism and matter:Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements.</p> <p>Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets.</p>		<p>1. Explantaion of concpetof different type of magnetic materials through story telling.</p> <p>2. Show the video and explain the concept of magnetism.</p> <p>3. Conduct test on the topic</p> <p>4. Solving numericals</p> <p>UNIT TEST 1</p>
July	4.Electromagnetic Induction and Alternating Currents	6	20	<p>Electromagnetic Induction:Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.</p>	<p>6.To determine the internal resistance of given primary cell using potentiometer.</p>	<p>1.Show video and explain the concept.</p> <p>2. Show the working models based on EMI concept.</p> <p>3. Demo of eddy currents and Lenz's law with examples in day to day life.</p>
		7		<p>Alternating current:Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, power factor, wattless current.</p>	<p>5.To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.</p> <p>Activity-2</p>	<p>1.Distinguish between DC and AC circuits</p> <p>2. Show videos and simulation experiments of AC</p>
	5.Electromagnetic waves	8	4	<p>Electromagnetic waves:Basic idea of displacement current, Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only).</p> <p>Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.</p>		<p>6.To find the value of v for different values of u in case of a concave mirror and to find the focal length.</p> <p>Activity -3</p>
August	6.Optics	9	27	<p>27</p> <p>Ray Optics and optical instruments:Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.</p> <p>Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset.</p> <p>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p>		<p>7.To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v.</p> <p>8.To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.</p> <p>Activity-4</p>

		10		Wave optics: Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum, resolving power of microscope and astronomical telescope, polarisation, plane polarised light, Brewster's law, uses of plane polarised light and Polaroids	Activity-5	1.Show the calculations of R.I. 2. Understanding of interference, diffraction etc through simulation experiments. 3.Use of art integration
September	7.Dual Nature of Matter and Radiation	11	8	.Dual Nature of Matter and Radiation: Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de-Broglie relation, Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).		1. Show videos to understand the dual nature of light. 2.Simulation of deBroglie wave and Davisson -Germer experiment. 3. Distinguish between Classical and Quantum physics MID TERM EXAMINATION
October	8.Atoms and Nuclei	12	15	Atoms: Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.	9.To find refractive index of a liquid by using convex lens and plane mirror. Activity-6	1. Using vedio cocept understanding. 2. Simulation of nuclar reactions 3. Group discussion and Quiz on current topics in atomic and nuclaer physics
		13		Nuclie: Composition and size of nucleus, Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law.	10.To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias.	
	9.Electronic Devices	14	12	Semiconductor Electronics: Materials, Devices and Simple Circuits Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell and Zener diode and their characteristics, zener diode as a voltage regulator.	11.To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. 12.To determine refractive index of a glass slab using a travelling microscope. 13.To find the focal length of concave lens using convex lens.	1. Demo of diodes and transitors 2. Encourage students to make the projects and its demo using different electronic components. 3.Conduct Seminars and QUIZ 4. Discuss the day to day life applications of various electronic circuits using LED, LDR Sensors etc.
November				REVISION		PRE BOARD EXAMINATION - I
December				REVISION		PRE BOARD EXAMINATION - II
January				Rivision		Board Practicals
February				Rivision		
March				Board Examination		

GREENFINGERS GLOBAL SCHOOL, KHARGHAR

SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-2025

GRADE: XII SUBJECT: CHEMISTRY (043)

MONTH	UNIT	PERIODS	TOPICS	PEDAGOGICAL STRATEGY	ACTIVITY
APRIL	6	15	1. Haloalkanes and Haloarenes	The students will solve selected questions from NCERT book with help of their teacher. (CRITICAL THINKING)	Lab Activity: Determination of concentration/ molarity of $KMnO_4$ solution by titrating it against a standard solution of: Oxalic acid (Students will be required to prepare standard solutions by weighing themselves).
	1	8	2. Solutions	The use of technology in the classroom helps to engage the students with different kinds of stimuli and creates an environment of activity-based learning.	
MAY	1	7	2. Solutions		Problem Solving
I UNIT TEST					
JUNE	7	14	3. Alcohols, Phenols and	Brain Storming-The class would start with a discussion on what the students have already learnt in the previous classes. They would also be told the significance of the topic .	Lab Activity: 1) Detection of functional Groups 2) Determination of acidic and basic radicals.
	4	10	4. d and f - block Elements		
JULY	4	8	4. d and f - block Elements		
	8	15	5. Aldehydes, Ketones and Carboxylic acid	Students will be engaged in a group discussion on the topics.	Lab activity: Determination of acidic and basic radicals
II UNIT TEST					
AUG	2	18	6. Electrochemistry	Adopting observation skill, Thinking skill (logical, rationale), Analytical and application,	Problem Solving
	9	14	7. Amines	Analysis , Understanding and Drawing skills in all topics.	Lab activity: Determination of acidic and basic radicals
SEPT	10	18	8. Biomolecules	Competencies developed in students: collaborative learning, critical thinking and problem solving and character building,	Lab Activity: Tests for the presence of carbohydrates, proteins and fats in the given samples.
	MID TERM EXAMINATION				
OCT	3	15	9. Chemical Kinetics	Pupil draws and explains crystal field splitting in	Lab Activity: Effect of concentration and
	5	18	10. Coordination Compounds	Structures of coordination compounds to explain	
NOV	Revision and Pre Board Examination				
JAN	Revision Board Practicals				
FEB	Revision and Board Examination				
MARCH	Board Examination				

XII STANDARD MATH SPLIT-UP SYLLABUS 2024-25 (041)

Month	No. of Periods	Units/Sub Units to be taught	Activity	Pedagogy
April	15 5	Unit-II Algebra (10) Marks 3) Matrices Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries). 4) Determinants Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. 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.	Art Integrated activity on matrix	Learning by doing or Constructive approach. Students will learn by doing the activity
April - May	15 05	Unit-I (8) Marks 1) Relations and Functions Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions. 2) Inverse Trigonometric Functions Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.	A2 (Relations) A3 (Functions)	Reflective / Constructive approach Students will learn concept in classroom and verify it by doing related activity in lab.
June	10	Unit-III Calculus (35) Marks 5) Continuity and Differentiability Continuity and differentiability, derivative of composite functions, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.		
July	10	6) Application of Derivatives Applications of derivatives: rate of change of bodies, increasing/decreasing functions, 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)	A9 (Continuity)	Constructive approach In this Students will learn different concepts of calculus by considering different examples of real world
	20	7) Integrals Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals and problems based on them. Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.	A13 (Increasing and Decreasing)	
August	15 15	8) Applications of Integrals Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only). 9) Differential Equations Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential.	A14 (Local Maxima and Local Minima)	
September	8 15	Unit-IV (14) Marks 10) Vector Algebra Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors. 11) 3D Geometry Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Angle between two lines	(Maxima and Minima) A18 (Maxima and Minima) A21 (Vector) A22 (Three Dimensional Geometry)	Learning by doing or Constructive approach. Students will learn by doing the activity
October	10 10	Unit-V (5) Marks 12) Linear programming 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 (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints). Unit-VI (8) Marks 13) Probability Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.	A27 (Probability)	Laboratory method Students will learn by doing activities in lab
November		Revision and 1st Pre-Board		
December		Revision and 2nd Pre-Board		

SYLLABUS FOR ACADEMIC YEAR 2024-25				
SUBJECT: BIOLOGY (044)		CLASS : XII		
MONTH	UNIT	CHAPTERS	PERIODS	PRACTICALS/ACTIVITY
UNIT TEST I				
APRIL & MAY	UNIT – VI	Chapter-1: Sexual Reproduction in Flowering Plants	30 PERIODS	Study pollen germination
	REPRODUCTION	Chapter-2: Human Reproduction		Study of adaptation of Pollen germination on slide
		Chapter-3: Reproductive Health		T .S. of ovary and testis
				Meiosis in onion bud cell
				T .S. of blastula
		Mitosis in onion root tip		
UNIT TEST II				
JUNE	UNIT – VII	Chapter-4: Principles of Inheritance and Variation.	40 PERIODS	Controlled pollination
	GENETICS AND EVOLUTION	Chapter-5: Molecular Basis of Inheritance		Mendelian inheritance
				Prepared pedigree charts
			Isolate DNA	
MID TERM				
JULY		Chapter-6: Evolution	30 PERIODS	
	UNIT-VIII	Chapter-7: Human Health and Diseases.		
	BIOLOGY AND HUMAN WELFARE			
AUGUST		Chapter-8: Microbes in Human Welfare	30 PERIODS	Common disease causing organisms
	UNIT-IX			
	BIOTECHNOLOGY AND ITS APPLICATIONS	Chapter-9: Biotechnology - Principles and processes		
PREBOARD I & II (INCLUDES COMPLETE SYLLABUS)				
SEPTEMBER		Chapter-10: Biotechnology and its Application.	30 PERIODS	
	UNIT-X	Chapter-11: Organisms and Populations		Study the plant population density and frequency
	ECOLOGY AND ENVIRONMENT			
OCTOBER		Chapter-12: Ecosystem.		Models specimen showing symbiotic association
		Chapter-13: Biodiversity and its Conservation		Flash card models showing homologous and analogous

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SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-2025

GRADE: XII

SUBJECT: COMPUTER SCIENCE(083)

MONTH	UNIT	NO OF PERIODS	TOPICS / SUB-TOPIC	ACTIVITY	PEDAGOGICAL TECHNIQUES
APRIL	UNIT - 1 COMPUTATIONAL THINKING AND PROGRAMMING-2	8	REVIEW OF PYTHON BASICS- I	DEMONSTRATION OF PYTHON PROGRAMMING	1. EXPLAIN ALL THE STEPS OF SOFTWARE INSTALLATION. 2. PEER INSTRUCTION ACTIVITY.
MAY		8	REVIEW OF PYTHON BASICS- II	DEMONSTRATION OF PYTHON PROGRAMMING	THINK PAIR SHARE ACTIVITY.
JUNE		10	FUNCTIONS	1. DEMONSTRATION OF PYTHON PROGRAMMING WITH DIFFERENT TYPES OF FUNCTIONS. 2. STUDY AND USE OF VARIOUS MEDIA AND TECHNIQUES TO THE EXTENT OF THEIR AVAILABILITY (ART INTEGRATION).	THINK-PAIR-SHARE CAN BE PROJECTED AT DIFFERENT INTERVALS OF A PRESENTATION TO ALLOW STUDENTS TO REFLECT ON AND DISCUSS WITH A PARTNER WHAT HAS BEEN PRESENTED.
		5	EXCEPTION HANDLING	TO CREATE MODULE FOR EXCEPTION HANDLING	
JULY		10	DATA FILE HANDLING	GROUP DISCUSSION	FLIPPED CLASSROOM
		8	DATA STRUCTURES IN PYTHON	PPT PRESENTATION	THINK-PAIR-SHARE CAN BE PROJECTED AT DIFFERENT INTERVALS OF A PRESENTATION TO ALLOW STUDENTS TO REFLECT ON AND DISCUSS WITH A PARTNER WHAT HAS BEEN PRESENTED.
AUGUST	UNIT - 2 COMPUTER NETWORKS	10	COMPUTER NETWORKS	DEBATE COMPETITION	1. PEER INSTRUCTION 2. THINK PAIR SHARE
SEPTEMBER	UNIT - 3 DATABASE MANAGEMENT	12	RELATIONAL DATABASE & SQL	INSTALLATION OF MYSQL SERVER 2008. HOW TO CHANGE DATA WITH DML COMMANDS USING SQL SERVER 2008	EXPLAIN ALL THE STEPS OF SOFTWARE INSTALLATION.
OCTOBER		10	INTERFACE PYTHON WITH SQL	DEMONSTRATION OF SQL QUERIES	1. TO SHOW INTERESTING VIDEOS. 2. EXPLAIN HOW TO EXECUTE SQL QUERIES.
NOVEMBER	REVISION				
DECEMBER	REVISION				
JANUARY	REVISION AND BOARD PRACTICAL EXAMINATION				
FEBRUARY	REVISION AND BOARD EXAMINATION				
MARCH	BOARD EXAMINATION				

GREENFINGERS GLOBAL SCHOOL

CLASS XII SYLLABUS 2024-2025

PHYSICAL EDUCATION(048)

MONTH	UNIT	TOPICS	PRACTICAL	ACTIVITY	PEDAGOGY	
April	1	Unit-I: Management of Sporting Events				Students learn new skills to polish their physical fitness components by imitation method.
		Management of Sporting Events	Fitness Tests	Badminton,		
		Various Committees & Responsibilities	Pull Ups ,Standing Long Jump	Basketball		
		Fixtures and their Procedures	Flexed Leg Situps,50 Yard Dash or Sprint	Fitness test.		
		Intramural & Extramural tournaments	Shuttle Run ,600 Yard Run.			
	Community sports program	Warm up & Limbering Down				
	2	Unit-II: Children & Women in Sports				Different tests are taught by imitation method to check the physical fitness with the help of motor fitness test.
		Exercise guidelines of WHO for different age groups.	Athletics:100M,200M,400M,800M,	AAPHER test batteries.		
		Common postural deformities.	Skipping	Senior citizen fitness test		
		Women's participation in Sports	Aerobics	Motor fitness test.		
Special consideration		Shotput Throw,Discuss Throw.				
Female athlete triad						
I UNIT TEST						
June	3	Unit-III: Yoga as Preventive measure for Lifestyle Disease				Various Yogasanas are taught by demonstration. Students learn new asanas by practically performing the asanas.
		Obesity: Procedure, Benefits &	Yogasana:	Pranayam		
		Diabetes: Procedure, Benefits &	Standing Asana,	Yogasana		
		Asthma: Procedure, Benefits &	Practical-2: Conduct Barrow 3 Item Test on 10 students.	Meditation		
		Hypertension: Procedure, Benefits & Contraindications				
	Backpain & Arthritis: Procedure,Benefits,Contraindications					
	4	Unit-IV: Physical Education & Sports for CWSN (Children With Special Needs - Divyang)				Different tests are taught by imitation method to check the physical fitness with the help of motor fitness test.
		Organizations promoting Disability Sports (Special Olympics; Paralympics;	Yogasana:	Motor fitness test		
		Concept of Classification and Divisioning in Sports.	Supine position Asanas.	Physical fitness test		
		Concept of Inclusion in sports, its need & Implementation;	Practical-3: Procedure for Asanas, Benefits & Contraindication for any two Asanas each lifestyle disease			
Advantages of Physical Activities for CWSN						
Strategies; Physical Activities assessable for CWSN.	Pranayam.					

July	5	Unit-V: Sports & Nutrition				
		Concept of balanced diet and nutrition	Practical-4: Senior Citizen Fitness	Senior citizen fitness test	To understand the relation of nutrition and sports and how it helps a player to enhance their performance level. Practical knowledge given with the help of demonstration method	
		Macro and Micro Nutrients: Food sources & functions	Ball handling skills & Drills of team games	Throwball		
		Nutritive & NonNutritive Components of Diet	HandBall,Basketball,Volleyball.	Handball		
		Eating for Weight control	Basic Skills & Techniques of Team	Kho-Kho		
		Importance of Diet				
	II UNIT TEST					
	6	Unit-VI: Test & Measurement in Sports				
		Fitness Test – SAI Khelo India Fitness Test in school.	Flexed Leg Situps, 50 Yard Dash or Sprint Shuttle Run , 600 Yard Run.	SAI Khelo India test	Practical demonstration given to children. Different objects given to the students for measurement of various parameters. Students understand by participating as a student and then conducting the tests also.	
		Measurement of CardioVascular Fitness.				
		Computing Basal Metabolic Rate				
Rikli & Jones - Senior Citizen Fitness Test						
Johnsen – Methney Test of Motor Educability						
Aug	7	Unit-VII:Physiology & Injuries in Sports				
		Physiological factors determining components of physical fitness	Procedure for administering Senior Citizen Fitness Test for 5 elderly family members.	Cardio vascular fitness test, Seminar presentation.	Class Seminars topic given to the students Students learn by presenting their given topic in front of the class.	
		Effect of exercise on the Muscular System				
		Effect of exercise on the CardioRespiratory System				
		Physiological changes due to aging				
Sports injuries: Classification.						
Sept	8	Unit-VIII: Biomechanics & Sports				
		Newton's Law of Motion & its application in sports	Athletics Performance	Football, Game of choice project.	Home work given to the Students. Students learn and revise by homework method.	
		Types of Levers and their application in Sports.	Athletics:100M,200M,400M,800M,			
		Equilibrium – Dynamic & Static and Centre of Gravity.	Game of choice practice.			
		Friction & Sports				
		Projectile in Sports				

Sept	MID TERM EXAMINATION				
Oct	9	Unit-IX: Psychology & Sports			Explanation of topic with the help of practical performance Students understand by immitation method
		Personality; its definition & types.	Journal & Project.	Game of choice project and performance, Fitness tests.	
		Motivation, its type & techniques.			
		Exercise Adherence: Reasons, Benefits & Strategies			
		Meaning, Concept & Types of Aggressions in Sports			
	Psychological Attributes in Sports.				
	10	Unit-X: Training in Sports			Practical demonstration of major games Students learn by participating and practicing the skills. Circuit training test by immitation method.
		Concept of Talent Identification and Talent Development.	Circuit Training. Basketball Backward Throw.	Circuit Training	
		Introduction to Sports Training Cycle.			
		Types & Methods to Develop components physical fitness.			
Circuit Training - Introduction & its importance					
Nov	Revision & Pre-board Examination				
Dec	Revision & Pre-board Examination				
Jan	Revision & Board Practicals				
Feb	Revision & Board Practicals				
March	Board Examination				

GREENFINGERS GLOBAL SCHOOL, KHARGHAR

SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-25

GRADE: XII SUBJECT: ENGLISH

MONTH	FLAMINGO/ VISTAS	L. NO	LESSON NAME	NO.OF PERIODS	PROJECT/ ACTIVITY	PEDAGOGY
	UNIT					
APRIL	FLAMINGO	1	THE LAST LESSON (PROSE)	4	CLASS DISCUSSION: life in the earlier times was much happier and the people in that time weren't anxious or fearful	Context based learning - Open ended instruction to improve creative thinking, memory and writing skills of the students based upon general instructions
		1	MY MOTHER AT SIXTY SIX (POETRY)	2		
		2	THE LOST SPRING	4		
	VISTAS	1	THE THIRD LEVEL	2		
		2	THE TIGER KING (PROSE)	3		
	WRITING		NOTICE	2		
JUNE	I UNIT TEST					
	FLAMINGO	3	DEEP WATER	4	JUST A MINUTE SPEECH ON GIVEN TOPICS; NARRATION BASED ON MYSTERY/ ART INTERGARTED	Adaptive Learning - Students shall develop their awarness by listening to their peers through actual participation.
		4	THE RATTRAP	5		
		3	KEEPING QUIET (POETRY)	2		
	VISTAS	3	JOURNEY TO THE END OF THE EARTH	3		
		4	THE ENEMY	3		
	WRITING		LETTER WRITING FORMAL , INVITATION REPLIES	4	POWER PONIT PRESENTATION ON GIVEN TOPICS, POETRY RECITATION IN A MUSICAL WAY/ FLIPCLASS	Team Based Learning engages student to knowledge through individual testing and group collaboration
			FORMAL INFORMAL	4		
	JULY	FLAMINGO	5	INDIGO	3	CONDUCTING AN INTERVIEW WITH AN EMINENT PERSONALITY OF YOUR LOCALITY
6			POETS AND PANCAKES	4		
VISTAS		4	A THING OF BEAUTY	2		
		5	SHOULD WIZARD HIT MOMMY	3		
		6	ON FACE OF IT	3		
II UNIT TEST						
WRITING		7	ARTICLE WRITING	3		
	3	THE INTERVIEW (PROSE)	3			

AUG	FLAMINGO	6	GOING PLACES	3	FLIP CLASS/ART INTERGATED PROJECT	Adaptive Learning - Students shall develop their awarness by listening to their peers through actual participation.
		4	THE ROADSIDE STAND (POETRY)	2		
	VISTAS	5	AUNT JENNIFER'S TIGER (POETRY)	3		
		7	EVANS TRIES AN O-LEVEL	3		
	8	MEMORIES OF CHILHOOD	3			
WRITING		JOB APPLICATION	3			
SEPT	FLAMINGO		REVISION	2	LISTENING AND SPEAKING ACTIVITY	Context based learning - Open ended instruction to improve creative thinking, memory and writing skills of the students based upon general instructions
			INFORMAL (NIVITATIONS AND REPLIES)	2		
	WRITING		REPORT WRITING	2		
	VISTAS		REVISION	2		
	FLAMINGO		REVISION	2		
MID TERM EXAMINATION						
OCT	ASL		ARTICLE WRITING /REPORT WRITING	2	LISTENING AND SPEAKING ACTIVITY	
	WRITING		ASL LISTENING	2		
NOV	Revision & Pre-board examination					
DEC	Revision & Pre-board examination					
JAN	Revision & Board practicals					
FEB	Revision & Board practicals					
MARCH	Board Examination					

GREENFINGERS GLOBAL SCHOOL
SYLLABUS REPORT FOR ACADEMIC YEAR 2024-25
CLASS XII ACCOUNTS (055)

SL.NO	MONTH	TOPIC:SUB TOPIC	PERIODS	PEDAGOGICAL TECHNIQUE.	ACTIVITIES / PROJECTS.	
		UT I				
		UT I				
1	APRIL	PART B Financial statement analysis CH 1: Financial Statements of a company	5	Formats of vertical balance sheet of various firms discussed	project on financial statements.	
2	JUNE	CH 2: Financial Statements analysis	5	Discussion based teaching on analysis of financial statements.	project on financial statements analysis.	
3	JUNE	CH 3 Tools for Financial Statement Analysis: Comparative statements, common size statements, Ratio analysis, Cash flow analysis	10	inquiry and format based teaching adopted.	projects on tools of analysis of financial statements.	
4	JUNE	CH 4 Accounting Ratios	10	project based teaching on categories of accounting ratio.	projects on ratio analysis as a tool.	
		UT I				
5	JULY	CH 5 Cash flow statement	20	Discussion and solving format wise of cash flow.	project on cash flow analysis.	
		UT II				
6	AUGUST	PART A : Accounting of partnership firms. CH 1 FUNDAMENTALS	20	Experiential teaching and discussion on partnership deeds and accounting rules.	quiz on journal entries.	
7	AUGUST	CH 2 Change in the Profit Sharing Ratio	10	Various partnership firms case study used as a tool.	quiz	
8	AUGUST	CH 3 Admission of a partner	20	Discussion and solving method of various case study.	Document making on accounting	

			and balance sheet			treatment during admission.
9	SEPTEMBER	CH 4 Retirement and death of a partner:	*EFFECT OF retirement / death of a partner on change in profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and preparation of capital, current account and balance sheet. Preparation of loan account of the retiring partner. □ Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account	20	Discussion and solving on accounting treatment during retirement and death.	Document making on accounting treatment during death and retirement.
10	SEPTEMBER	CH 5 Dissolution of a partnership firm:	*Meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s))	20	Lecture based and solving method of various case study.	quiz
MID TERM EXAMINATION						
Unit-3						
11	OCTOBER	Accounting for Companies CH 1 Accounting for Share Capital	*Features and types of companies. * Share and share capital: nature and types *Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash *Concept of Private Placement and Employee Stock Option Plan (ESOP), Sweat Equity *Accounting treatment of forfeiture and reissue of shares Sheet of a company. *Disclosure of share capital in the Balance	22	Experiential and lecture based teaching on shares.	project on stock market
12	OCTOBER	CH 2 Accounting for Debentures	*Debentures: Meaning, types, Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security-concept, interest on debentures (concept of TDS is excluded). Writing off discount / loss on issue of debentures	22	Discussion and factual based teaching on accounting treatment to record debentures as company capital.	project on stock market.
	NOVEMBER	FIRST PRE BOARD EXAMINATION	PRE BOARD PRACTICALS			
	DECEMBER	SECOND PREBOARD EXAMINATION				
	JANUARY	REVISION	BOARD PRACTICALS			
	FEBRUARY	REVISION				
	MARCH	BOARD EXAMINATION				

GREENFINGERS GLOBAL SCHOOL KHARGHAR
SYLLABUS REPORT FOR ACADEMIC YEAR 2024-25
CLASS XII BUSINESS STUDIES (054)

SR.NO	MONTH	UNIT	TOPIC-SUB TOPIC	PERIODS	PEDAGOGICAL STRATEGY	ACTIVITIES / PROJECTS
1	APRIL	Nature and Significance of Management	*Management - concept, objectives, and importance *Management as Science, Art and Profession *Levels of Management *Management functions-planning, organizing, staffing, directing and controlling*Coordination- concept and importance	12	Experiential learning techniques to teach management strategies.	QUIZ
2	APRIL	Unit 3: Business Environment	*Business Environment- concept and importance *Dimensions of Business Environment - Economic, Social, Technological, Political and Legal *Demonetization - concept and features	14	Case study on various components of business environment	PROJECTS ON BUSINESS ENVIRONMENT
3	JUNE	Unit 2: Principles of Management	*Principles of Management - concept and significance *Fayol's principles of management *Taylor's Scientific management - principles and techniques	14	case study on various business units with techniques and principles.	projects on principles of henry fayol and taylor.
4	JUNE	Unit 4: Planning	*Planning: Concept, importance and limitation *Planning process *Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme	14	Inquiry based teaching	QUIZ
	JUNE			UT I		
5	july	Unit 5: Organising	*Organising: Concept and importance *Organising Process *Structure of organisation- functional and divisional concept. Formal and informal organization - concept *Delegation: concept, elements and importance *Decentralization: concept and importance	15	Experiential and enquiry based teaching	QUIZ
6	JULY	Unit 6: Staffing	*Staffing: Concept and importance of staffing *Staffing as a part of Human Resource Management concept *Staffing process *Recruitment process *Selection – process *Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training	16	Various case study on staffing process.	ROLE PLAY.

		UT II				
7	AUGUST	Unit 7: Directing	*Directing: Concept and importance *Elements of Directing *Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives *Leadership - concept, styles - authoritative, democratic and laissez faire *Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers?	15	Various case study of business units for directing	QUIZ
8	AUGUST	Unit 8: Controlling	*Controlling - Concept and importance *Relationship between planning and controlling *Steps in process of control	12	Various case studies discussed	Activities on actual performance verses planned performance in industry atmosphere.
9	SEPTEMBER	Unit 9: Financial Management	*Financial Management: Concept, role and objectives *Financial decisions: investment, financing and dividend - Meaning and factors affecting *Financial Planning - concept and importance *Capital Structure – concept and factors affecting capital structure *Fixed and Working Capital - Concept and factors affecting their requirements	20	Discussion and lecture based techniques on financial management.	Project on stock exchange market.
10	SEPTEMBER	Unit 10: Financial Markets	*Financial Markets: Concept *Money Market: Concept *Capital market and its types (primary and secondary) *Stock Exchange - Functions and trading procedure *Securities and Exchange Board of India (SEBI) - objectives and functions	18	Various conditions discussed for changes in stock markets with business case study.	Project on stock exchange market
	SEPTEMBER	MID TERM EXAMINATION				
11	OCTOBER	Unit 11: Marketing	*Marketing – Concept, functions and philosophies *Marketing Mix – Concept and elements* Product – branding, labelling and packaging – Concept *Price - Concept, Factors determining price *Physical Distribution – concept, components and channels of distribution *Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations	30	Marketing strategies discussed with case study.	Project on product marketing.
12	OCTOBER	Unit 12: Consumer Protection	*Consumer Protection: Concept and importance *The Consumer Protection Act, 2019: *Meaning of consumer Rights and responsibilities of consumers who can file a complaint? Redressal machinery Remedies available *Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)	12	Discussion and lecture based	Document making on various case study.
	NOVEMBER	FIRST PRE BOARD EXAMINATION		PRE BOARD PRACTICALS		
	DECEMBER	SECOND PREBOARD EXAMINATION				
	JANUARY	REVISION		BOARD PRACTICALS		
	FEBRUARY	REVISION				
	MARCH	BOARD EXAMINATION				

GREENFINGERS GLOBAL SCHOOL, KHARGHAR

GRADE: XII SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-25

SUBJECT - ECONOMICS (030)

MONTH	UNIT	TOPICS / SUB - TOPICS	PERIODS	ACTIVITY	PEDAGOGY
APRIL /MAY	Unit 1	Part A: Introductory Macroeconomics Basic concepts in macroeconomics, Circular flow of income	14	flow chart	Team Based Learning - Group Discussion
	Unit 2	Money and Banking Meaning and functions, Money Creation by the Commercial Banking System, Central Bank and its functions	12	Collect information key Banking Rates	Context Based Learning
	Unit 4	Government Budget and the Economy Meaning, objectives and Components, Types of Budget Deficit	11	Recent Budget Analysis 2024	
JUNE	I Unit Test				
	Unit 6	Part B: Indian Economic Development State of Indian economy on the eve of independence, Main features, problems policies of agriculture, industry and foreign trade.	6	NITI Aayog and NSO	
	Unit 5	Balance of Payments account - meaning types and components	6	BOP Account from Economic Survey	Context Based Learning
Foreign exchange rate-Types,Determination of exchange rate in a free market		8			
JULY	Unit 1	Aggregates related to National Income, Real and Nominal GDP GDP Deflator, GDP and Welfare	16	Roleplay	Adaptive Learning
	II Unit Test				
		Methods of calculating National Income			Mind map of methods of national
	Unit 6	Economic Reforms1991: Features & appraisal ; Demonetization & GST	6	Globalisation - doodle art, Collage	Art integrated Learning
JULY/ AUG	Unit 3	Determination of Income and Employment investment multiplier, Problems and measures of excess and deficient demand	18	Recent Monetary and Fiscal Policy	Critical pedagogical approach - Assignment
	Unit 7	Current challenges facing Indian Economy Human Capital Formation & Growth of Education Sector in India	7	Employment newspaper and Employment Exchange	Flipped classroom learning
SEPT	Unit 7	Rural development: Key issues -credit and marketing, cooperatives; agricultural diversification; alternative farming - organic farming	6	Diversification - Case Studies	Critical pedagogical approach
	MID TERM EXAMINATION				
OCT	Unit 7	Employment: Growth and changes in work force participation rate in formal and informal sectors; problems and policies	5	Data to be collected from economic survey	Team Based Learning - Group Discussion
	Unit 7	Sustainable Economic Development	5	Sustainable Development Goals	Flip classroom learning
	Unit 8	Development Experience of India: A comparison with neighbours	6	Economic and social indicators	Project based learning
NOV	Revision & Pre-board examination				
DEC	Revision & Pre-board examination				
JAN	Revision & Board practicals				
FEB	Revision & Board practicals				
MARCH	Board examination				

XII APPLIED MATH SPLIT-UP SYLLABUS 2024-25 (241)

Month	No. of Periods	Units/Sub Units to be taught	Pedagogical strategy	Activity
April	20	Unit-II - ALGEBRA(10) Marks Types of matrices, equality of matrices,transpose, symmetric and skew symmetric matrix Algebra of matrices, Determinants, Inverse of a matrix, Solving system of simultaneous equations using matrix method,Cramer's rule	Brain storming- the class would start with discussuion on what the students have already learnt in previous class .	Art Integrated Project
April - May	30	Unit-I - NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS(11) Marks Modulo Arithmetic,Congruence Modulo, Alligation and Mixture Problems based on Boats and Streams, Pipes and Cisterns, Races and Games	Numerical Numerical Inequalities The students will solve selected sums from textbook with help of teacher (critrical thinking).	Excel based Practical on Matrix multiplication and the inverse of a matrix
June	20	Unit-VI - INDEX NUMBERS AND TIME BASED DATA (6) Marks Series , Components of time series, Time Series analysis for univariate data, Secular Trend,Methods of Measuring trend	Time relate with previous knowledge and day to day daily life problems. Drawing skills developed.	Project on any suggested topic
June - July	20	Unit III - CALCULUS (15) Marks Differentiation and its Applications Order Derivatives, Application of Derivatives,Marginal Cost and Marginal Revenue using derivatives,Increasing/Decreasing Functions,Maxima and Minima	Higher Competencies developed in students ; thinking skills (logical) .	Plot the graphs of functions on excel and study the graph to find out the point of maxima/minima
	20	Integration and its Applications Integration, Indefinite Integrals as family of curves, Definite Integrals as area under the curve, Application of Integration		
August	10	Differential Equations and Modeling. Differential Equations, Formulating and Solving Differential Equations, Application of Differential Equations	solving different types of question from textbook and competency based question	Probability and dice roll simulation
	25	Unit- IV - PROBABILITY DISTRIBUTIONS (10) Marks Probability Distribution, Mathematical Expectation, Variance,Binomial Distribution,Poison Distribution,Normal Distribution		
September	10	Unit - V - INFERENCE STATISTICS (5) Marks Population and Sample, Population and Sample, t-Test (one sample t-test and two independent groups t-test)	The students will solve selected sums from textbook with help of teacher (critrical thinking)	Stock Market data sheet on excel
	20	Unit - VII - FINANCIAL MATHEMATICS (15) Marks Perpetuity, Sinking Funds, Calculation of EMI, Calculation of Returns, Nominal Rate of Return,Compound Annual Growth Rate, Linear method of Depreciation		
October	10	Unit-VIII - LINEAR PROGRAMMING (8) Marks Introduction and related terminology,Mathematical formulation of Linear Programming Problem, Different types of Linear Programming Problems, Graphical method of solution for problems in two variables, Feasible and Infeasible Regions, Feasible and infeasible solutions, optimal feasible solution	understanding and drawing skills in graphs with accuracy ,Analytical and application	
November		Revision and 1st Pre-Board		
December		Revision and 2nd Pre-Board		

GREENFINGERS GLOBAL SCHOOL, KHARGHAR

SYLLABUS REPORT FOR THE ACADEMIC YEAR 2024-2025

GRADE: XII

SUBJECT: COMPUTER SCIENCE(083)

MONTH	UNIT	NO OF PERIODS	TOPICS / SUB-TOPIC	ACTIVITY	PEDAGOGICAL TECHNIQUES
APRIL	UNIT - 1 COMPUTATIONAL THINKING AND PROGRAMMING-2	8	REVIEW OF PYTHON BASICS- I	DEMONSTRATION OF PYTHON PROGRAMMING	1. EXPLAIN ALL THE STEPS OF SOFTWARE INSTALLATION. 2. PEER INSTRUCTION ACTIVITY.
MAY		8	REVIEW OF PYTHON BASICS- II	DEMONSTRATION OF PYTHON PROGRAMMING	THINK PAIR SHARE ACTIVITY.
JUNE		10	FUNCTIONS	1. DEMONSTRATION OF PYTHON PROGRAMMING WITH DIFFERENT TYPES OF FUNCTIONS. 2. STUDY AND USE OF VARIOUS MEDIA AND TECHNIQUES TO THE EXTENT OF THEIR AVAILABILITY(ART INTEGRATION).	THINK-PAIR-SHARE CAN BE PROJECTED AT DIFFERENT INTERVALS OF A PRESENTATION TO ALLOW STUDENTS TO REFLECT ON AND DISCUSS WITH A PARTNER WHAT HAS BEEN PRESENTED.
		5	EXCEPTION HANDLING	TO CREATE MODULE FOR EXCEPTION HANDLING	
JULY		10	DATA FILE HANDLING	GROUP DISCUSSION	FLIPPED CLASSROOM
		8	DATA STRUCTURES IN PYTHON	PPT PRESENTATION	THINK-PAIR-SHARE CAN BE PROJECTED AT DIFFERENT INTERVALS OF A PRESENTATION TO ALLOW STUDENTS TO REFLECT ON AND DISCUSS WITH A PARTNER WHAT HAS BEEN PRESENTED.
AUGUST	UNIT - 2 COMPUTER NETWORKS	10	COMPUTER NETWORKS	DEBATE COMPETITION	1. PEER INSTRUCTION 2. THINK PAIR SHARE
SEPTEMBER	UNIT - 3 DATABASE MANAGEMENT	12	RELATIONAL DATABASE & SQL	INSTALLATION OF MYSQL SERVER 2008.HOW TO CHANGE DATA WITH DML COMMANDS USING SQL SERVER 2008	EXPLAIN ALL THE STEPS OF SOFTWARE INSTALLATION.
OCTOBER		10	INTERFACE PYTHON WITH SQL	DEMONSTRATION OF SQL QUERIES	1.TO SHOW INTERESTING VIDEOS. 2. EXPLAIN HOW TO EXECUTE SQL QUERIES.
NOVEMBER	REVISION				
DECEMBER	REVISION				
JANUARY	REVISION AND BOARD PRACTICAL EXAMINATION				
FEBRUARY	REVISION AND BOARD EXAMINATION				
MARCH	BOARD EXAMINATION				

GREENFINGERS GLOBAL SCHOOL

CLASS XII SYLLABUS 2024-2025

PHYSICAL EDUCATION(048)

MONTH	UNIT	TOPICS	PRACTICAL	ACTIVITY	PEDAGOGY	
April	1	Unit-I: Management of Sporting Events				Students learn new skills to polish their physical fitness components by imitation method.
		Management of Sporting Events	Fitness Tests	Badminton,		
		Various Committees & Responsibilities	Pull Ups ,Standing Long Jump	Basketball		
		Fixtures and their Procedures	Flexed Leg Situps,50 Yard Dash or Sprint	Fitness test.		
		Intramural & Extramural tournaments	Shuttle Run ,600 Yard Run.			
	Community sports program	Warm up & Limbering Down				
	2	Unit-II: Children & Women in Sports				Different tests are taught by imitation method to check the physical fitness with the help of motor fitness test.
		Exercise guidelines of WHO for different age groups.	Athletics:100M,200M,400M,800M,	AAPHER test batteries.		
		Common postural deformities.	Skipping	Senior citizen fitness test		
		Women's participation in Sports	Aerobics	Motor fitness test.		
Special consideration		Shotput Throw,Discuss Throw.				
Female athlete triad						
I UNIT TEST						
June	3	Unit-III: Yoga as Preventive measure for Lifestyle Disease				Various Yogasanas are taught by demonstration. Students learn new asanas by practically performing the asanas.
		Obesity: Procedure, Benefits &	Yogasana:	Pranayam		
		Diabetes: Procedure, Benefits &	Standing Asana,	Yogasana		
		Asthma: Procedure, Benefits &	Practical-2: Conduct Barrow 3 Item Test on 10 students.	Meditation		
		Hypertension: Procedure, Benefits & Contraindications				
	Backpain & Arthritis: Procedure,Benefits,Contraindications					
	4	Unit-IV: Physical Education & Sports for CWSN (Children With Special Needs - Divyang)				Different tests are taught by imitation method to check the physical fitness with the help of motor fitness test.
		Organizations promoting Disability Sports (Special Olympics; Paralympics;	Yogasana:	Motor fitness test		
		Concept of Classification and Divisioning in Sports.	Supine position Asanas.	Physical fitness test		
		Concept of Inclusion in sports, its need & Implementation;	Practical-3: Procedure for Asanas, Benefits & Contraindication for any two Asanas each lifestyle disease			
Advantages of Physical Activities for CWSN						
Strategies; Physical Activities assessable for CWSN.	Pranayam.					

July	5	Unit-V: Sports & Nutrition				
		Concept of balanced diet and nutrition	Practical-4: Senior Citizen Fitness	Senior citizen fitness test	To understand the relation of nutrition and sports and how it helps a player to enhance their performance level. Practical knowledge given with the help of demonstration method	
		Macro and Micro Nutrients: Food sources & functions	Ball handling skills & Drills of team games	Throwball		
		Nutritive & NonNutritive Components of Diet	HandBall,Basketball,Volleyball.	Handball		
		Eating for Weight control	Basic Skills & Techniques of Team	Kho-Kho		
		Importance of Diet				
	II UNIT TEST					
	6	Unit-VI: Test & Measurement in Sports				
		Fitness Test – SAI Khelo India Fitness Test in school.	Flexed Leg Situps, 50 Yard Dash or Sprint Shuttle Run , 600 Yard Run.	SAI Khelo India test	Practical demonstration given to children. Different objects given to the students for measurement of various parameters. Students understand by participating as a student and then conducting the tests also.	
		Measurement of CardioVascular Fitness.				
		Computing Basal Metabolic Rate				
Rikli & Jones - Senior Citizen Fitness Test						
Johnsen – Methney Test of Motor Educability						
Aug	7	Unit-VII:Physiology & Injuries in Sports				
		Physiological factors determining components of physical fitness	Procedure for administering Senior Citizen Fitness Test for 5 elderly family members.	Cardio vascular fitness test, Seminar presentation.	Class Seminars topic given to the students Students learn by presenting their given topic in front of the class.	
		Effect of exercise on the Muscular System				
		Effect of exercise on the CardioRespiratory System				
		Physiological changes due to aging				
Sports injuries: Classification.						
Sept	8	Unit-VIII: Biomechanics & Sports				
		Newton's Law of Motion & its application in sports	Athletics Performance	Football, Game of choice project.	Home work given to the Students. Students learn and revise by homework method.	
		Types of Levers and their application in Sports.	Athletics:100M,200M,400M,800M,			
		Equilibrium – Dynamic & Static and Centre of Gravity.	Game of choice practice.			
		Friction & Sports				
		Projectile in Sports				

Sept	MID TERM EXAMINATION				
Oct	9	Unit-IX: Psychology & Sports			Explanation of topic with the help of practical performance Students understand by immitation method
		Personality; its definition & types.	Journal & Project.	Game of choice project and performance, Fitness tests.	
		Motivation, its type & techniques.			
		Exercise Adherence: Reasons, Benefits & Strategies			
		Meaning, Concept & Types of Aggressions in Sports			
	Psychological Attributes in Sports.				
	10	Unit-X: Training in Sports			Practical demonstration of major games Students learn by participating and practicing the skills. Circuit training test by immitation method.
		Concept of Talent Identification and Talent Development.	Circuit Training. Basketball Backward Throw.	Circuit Training	
		Introduction to Sports Training Cycle.			
		Types & Methods to Develop components physical fitness.			
Circuit Training - Introduction & its importance					
Nov	Revision & Pre-board Examination				
Dec	Revision & Pre-board Examination				
Jan	Revision & Board Practicals				
Feb	Revision & Board Practicals				
March	Board Examination				