

Mahatma Gandhi Mission Primary & Secondary School

Phase – II, Sector – 8, Nerul, Navi Mumbai

YEAR PLAN 2025-2026

STD: -XI

SUB:-Physics

Teacher: - Mrs. Mayuri Tonge

MONTH	NO. OF DAYS	LESSON	TOPIC	Activity
MARCH	17	Physical World and Measurement	Units and measurements	To measure diameter of a small sphericle body and measure internal diameter and depth of given beaker
APRIL	17	Unit-II Kinematics	Motion in a straight line	To measure diameter of a given wire and thickness of a given sheet using screw guage
JUNE	23	CT1 21 to 28 June 2025		
		Unit-II Kinematics	Motion in plane	To make paper scale of of given least count 0.2 cm,0.5 cm To determine volume of irregular lamina using a screw guage.
JULY	21	UT1 5/7/25 TO 11/07/25 Syllabus chapter2,3,4,5		
		UNIT III Laws of motion	Laws of motion	To determine radius of curvature of given spherical surface by a spherometer.
		Unit-IV Work, Energy and Power	Work energy power	
		Unit-V Motion of System of Particles and Rigid Body	System of particles and Rotational Motion	To measure force of limiting friction for rlling of a roller on horizontzl plane.
AUGUST	19	Unit-VI Gravitation	Gravitation	Using a simple pendulum plot its L/T graph
		Unit-VII Properties of Bulk Matter	Mechanicle properties of solis and liquid	To study variation of time period of a simple pendulum of given length taking bobs of same size and different masses.

SEPTEMBER	16	REVISION		
		Half Yearly Exam 13/09/25 to 22/09/25 Syllabus chapter 2 to 8		
OCTOBER	13	Unit–VIII Thermodynamics	Thermodynamics	To find force constant of a helical spring by plotting a graph.
		Unit -IX Behaviour of perfect gases and	Behaviour of Perfect Gases	
		Diwali Vacation 17/10/25 TO 01/11/25		
NOVEMBER	23	Unit -IX	Kinetic Theory of Gases	To observe effect of heat on bi-metallic strip.
DECEMBER	12	UT2 5/12/2025 to 17/12/25 Syllabus chapter 9 to 12		
		Unit X Oscillations and waves	Oscillations	To study effect of detergent on surface tension of water .
JANUARY	15	Unit X Oscillations and waves	Waves	
		Revision		
FEBRUARY		Annual exam 2/02/26 to 11/02/26 Syllabus All chapters		

Mahatma Gandhi Mission Primary & Secondary School

Phase -II , Sec-8, Nerul Navi mumbai

YEAR PLAN 2025-2026

STD- XI

SUB:- PHYSICAL EDUCATION

Teacher:- Manisha

MONTH	W.D	TOPIC	LESSON	ACTIVITY	
JUNE	23	UNIT-1 Changing Trends and Careers	1.Concept , aims & Objectives of physical education	Prepare a chart on the steps taken by the Government of india to promote games and sports in india .	
			2.Development of Physical Education in India -Post Independence		
			3. Changing Trends in Sports - playing surface , wearable gear and sports equipment , technological advancements.		
			technological advancements.		
			4. Career options in physical Education		
			5.Khelo india Program and Fit -India program		
			UNIT - II Olympism Value Education		Make a List of the players of india who got medals in Olympics .
		1.Olympism - Concept and Olympics Values (Excellence , friendship & Respect)			
		2. Olympic value Education - joy of Effort, Fair play, Respect for others, Pursuit of Excellence , Balance Among Body, will & Mind .			
		3.Ancient and Morden Olympics			
		4. Olympic Movement structure - IOC, NOC,IFS, Other members			
		CT-1 (23june to 28 june) Unit I & II			
		UNIT -III Yoga	1. meaning and Importance of Yoga	Prepare a chart showing eight paths of yoga .Discuss about each path in your class with your classmates.	
			2. Introduction of Astanga yoga		
3.Yogic Kriyas (Shat Karma)					
4. Pranayama and its types					
5. Active Lifestyle ans stress management through Yoga					
UT -1 (5 th JULY to 11th JULY) UNIT - I,II,III					

JULY	21	UNIT -IV Physical Education and Sports for Children with Special needs	1. Concept of Disability and Disorder	Malnutrition is a big problem in various parts of the world . Investigate to make a report on how organisations work to eradicate this problems .
			2. Types of Disability , its causes & nature (intellectual disability , Physical disability)	
			3. Disability Etiquette	
			4. Aim and objectives of Adaptive Physical education	
			5. Role of various professionals for children with special needs (counselor, Occupational Therapist , Physiotherapist , Physical Education Teacher, speech Therapist, and Special Educator)	
AUGUST	19	UNIT -V Physical Fitness ,Wellness and Lifestyles	1. Meaning & Importance of Wellness , Health and Physical Fitness	Search for various factors which are helpful in measuring wellness of a person .thrn evaluate yourself on all these parameters.
			2. Components / Dimensions of Wellness , Health, and Physical Fitness	
			3.Traditional Sports & Regional Games for promoting Physical Fitness	
			4.Leadership through Physical Activity and sports	
			CT-2 (18th AUG to 23rd AUG) UNIT - III,IV	
			5.Introduction to First aid - PRICE	
			UNIT -VI Test ,Measurement & Evaluation	1. Define Test ,Measurement and Evaluation
	2. Importance of Test, Measurement and Evaluation in in Sports .	3. Calculation of BMI , Waist- Hip Ratio , Skin fold measurement		
	4.Somato Types (Endomorphy , Mesomorphy, Ectomorphy)	5.Measurement of health related fitness.		
SEPET	16	UNIT-VII Fundamentals OF Anatomy ,and Physiology in	1.Defination and importance of Anatomy and Psychology in Exercise and Sports .	Draw and label the bones of the following parts 1. The knee cap 2. Bones of the fingers of the palm 3. bones of the fingers of the feet
			2.Functions of Skeletal System, Classification of Bones, and Types and Sports	
			Half Yearly Exam (13 sep to 22 sep) UNIT - 1,2,3,4,5,6	

		Exercise and Sports .	3. Properties and Functions of Muscles	
			4. Structure and Functions of Circulatory System and Heart.	
			5. Structure and Functions of Respiratory System	
OCT	13	UNIT - VIII Fundamentals of Kinesiology and Biomechanics in Sports	1. Definition and Importance of Kinesiology and biomechanics in Sports	movements of the bones
			2. Principles of Biomechanics	
			3. Kinetics and Kinematics in Sports	
			4. Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, & Pronation	
			DIWALI VACATION (17 OCT to 1 NOV)	
NOV	18	UNIT -IX Psychology & Sports	1. Definition & Importance of Psychology in Physical Education & Sports .	Select a person whom you admire the most , either from real life or from history . Observe and note your behaviour characteristics that have been imbibed from that person .
			2. Developmental Characteristics at Different Stages of Development	
			3. Adolescent Problems & their Management	
			CT-3 (22 NOV to 28 NOV)	
DEC	16	UNIT -IX Psychology & Sports	4. Team Cohesion and Sports	
			5. Introduction to Psychological Attributes; Attention, Resilience , Mental Toughness.	
			UT -2 EXAMS (5 DEC to 12 DEC) UNIT 6,7,8	
JAN	25	UNIT - X Training & Doping in Sports	1. Concept and Principles of Sports Training	Application of Newton's Law with suitable sports example.
			2. Training Load ; Over Load , Adaptation, and Recovery	
			3. Warming up and Limb Down - Types , Method & Importance	
			4. Concept of Skill , Technique, Tactics & Strategies	
			5. Concept of doping and its disadvantages.	
			CT -4 (19 JAN to 24 JAN) UNIT 9,10	
			Revision	
			ANNUAL EXAM (2 FEB to 11 FEB) FULL PORTION	

Mahatma Gandhi Mission Primary & Secondary School					
Phase – II, Sector – 8, Nerul, Navi Mumbai					
YEAR PLAN 2025-2026					
STD: -XI		SUB:-Mathematics		Teacher: -Mrs.Supriya Dunde	
MONTH	DAYS	LESSON	TOPIC	ACTIVITY	
JUNE	23	1.Sets	Introduction ,Sets and their representation , Finite and Infinite sets ,Equal sets ,Subsets , Power sets , Vell diagraph , operation on sets ,complement of a set.	To represent set theoretic operations using Vell diagraph.	
		2.Relations and Functions	Introduction ,Cartesian products of sets, relations , functions , algebra of real functions.	1.To identify a relation and function. 2.To distinguish between a relation and function	
		CT-1 (23 June to 28 June) Syllabus : Chapter 1, 2			
JULY	21	3. Trigonometric functions	Introduction , angles, Trigonometric functions , sign of trigonometric functions ,domain and range of trigonometric functions, trigonometric functions of sum and difference of two angles, trigonometric equations.	To plot the graph of $\sin x$, $\sin 2x$, $2 \sin x$ and $\sin x/2$ on the same coordinate axis.	
		UT_1 (5th July to 11th July) SYLLABUS: Chapter 1,2,3			
		4.Complex number and Quadratic equations	Introduction, complex number , algebra of complex number , identities ,modular and conjugate of a complex number , polar representation , quadratic equation.	To interpret geometrically the meaning of $i=\sqrt{-1}$ and its integral power.	
		5.Linear inequalities	Introduction,inequalities, algebraic solutions of linear inequalities in one variable and their graphical representations , graphical solutions of linear inequalities in two variable , solution of system of linear inequalities in two variables .	To find graphical solutions of linear inequalities in two variables.	
AUGUST	19	6. Permutation and Combination	Introduction, fundamental principle of counting ,permutations , combinations.	To find the number of ways in which three cards can be selected from given five cards.	
		CT-2 (18 August to 23 August) Syllabus: Chapter 4,5			
		7.Binomial Theorem	Introduction, binomial theorem for positive integral indices , general and middle terms.	To construct a pascles triangle and to write binomial expansion for a given positive integral exponent.	
SEPTEMBER	16	8.Sequence and series	Introduction, sequence , series,arithmetic progression , geometric progression, arithmetic mean and geometric mean.	To obtain formula for the sum of squares of first - n natural numbers	
		Half Yearly Exam(13 Sept to 22 Sept), SYLLABUS: Chapter 1,2,3,4,5,6,7			

OCTOBER	13	9.Straight lines	Introduction, slope of a line , angle between two lines , horizontal and vertical lines , point slope form, slope interset form , normal form , general equations of a line.	To verify equation of family of lines passing through the point of intersection of two lines.
		10.Conic sections	Introductions, Section of a cone , circle , parabola,standard equations of parabola, latus rectum , ellipse, eccentricity, hyperbola .	To construct different types of conic sections.
DIWALI VACATION (17th Oct to 1 Nov)				
NOVEMBER	18	11.Introduction to 3D	Introduction ,Coordinate axis and coordinate planes in 3 dimensional planes , coordinate of a point in space , distance between two points, section formula	To explain the concept of octants by three mutually perpendicular planes.
		12.Limits and derivatives	introduction, Limits, algebra of limits , limits of trigonometric functions, derivatives , algebra of derivative of function.	To verify the geometrical significance of derivative
CT-3 (22 Nov to 28 Nov) Syllabus: Chapter 12				
UT2 EXAM(5 DEC TO 12 DEC) Syllabus Chapter 9,10,11,12				
DECEMBER	16	13. Statistic	Introduction , majors of dispersion ,range , mean deviation, median, variance and standard deviation , analysis of frequency distribution	To study scope and importance of statistic
JANUARY	25	14.Probability	Introduction, random experiments, event, types of events , algebra of events , axiomatic approach to probability	To write the sample space , when a coin is tossed once , two time , three times, four times
		CT-4(Jan 19 to Jan 24) Syllabus Chapter 13 ,14 Revision		
FEBRUARY		Annual Exam (2 feb to 11 Feb) Syllabus Full Portion		

Mahatma Gandhi Mission Primary & Secondary School

Phase – II, Sector – 8, Nerul, Navi Mumbai

YEAR PLAN 2025-2026

STD: XI

SUB: ENGLISH

Mrs. ARCHANA

MONTH	41	LESSON	TOPIC	Activity
JUNE	23	JUNE CT-1 Exam portion - 1,2		
		HORNBILL {PROSE}	The portrait of a lady We are not Afraid to die ...if We can all be together,a photograph .	
		CH-1 PROSE , CH1 ,2 POEM		EMOTIONAL TIMELINE , DISCUSS HOW PHOTOS HOLD EMOTIONS LIKE IN THE POEM, SHOW A FEW OLD PHOTOGRAPHS REAL OR SYMBOLIC, MAKE A CHART OF YOUR GRANDMOTHER AND YOUR BONDING WITH HER
JULY	21	PT - 2 Exam Portion - Chapter- 1,2,3,4		
		HORNBILL {PROSE} CH-2, POEM CH-3, Snapshots,	The Summerof The Beautiful White Horse, The Voice of the Rain Childhood ,The address, paragraph writing, notice writing.	Write your bio data, compose a" voice" poem from an object in nature.
AUGUST	19	poem ch 2 (reader)	Ranga's marriage,Mother's day ,bio data writing , letter writing.	Debate arrange marriage
		AUGUST CT-2 Exam Portion 5,6		
SEPTEMBER	16	prose ;writing skill	Landscape of the soul, The Ailing planet; the green movement's role , writing skills	Visual vs. spiritual art create your own symbolic art work.
		Half Yearly exam (13th TO 22th SEPT) Exam portion- Chapter No 1,2,3,4,5,6		

OCTOBER	13	prose, writing skill	The browning Version , The adventure, Silk Road, poster making.	Role play the conversation between taplow and Mr. Crocker -Harris
		DIWALI VACATION (17/10/25-01/11/25)		
NOVEMBER	18	prose,poem, reader	Birth, The ghat of the only world, article writing ,debate , Short composition (Notices/posters /advertisements).	Create a tribute a poster for your friend, Script a modern day version of the play.
DECEMBER	16	PT-2 (5/12/25 to 17/12/25) Exam portion- Chapter No 8,9,		
		prose , poem reader	The tale of melon city, poem- Father to son -poem, Long composition (article/debate/ report /narratives/)	dialogue writing between father and son on misunderstanding
JANUARY	15		Chapter wise revision and class test. ASL	revision or practice doubt clear
		Cycle test IV (Exam Portion- Chapter No. 9,10)		
FEBRUARY	23	Annual Exam		

Mahatma Gandhi Mission Primary & Secondary School				
Phase – II, Sector – 8, Nerul, Navi Mumbai				
YEAR PLAN 2025-2026				
STD: -XI		SUB:-COMPUTER SCIENCE		Teacher: - Mrs. Sangeeta Gunjal
MONTH	Days	Unit	TOPIC	Activity
APRIL	23	XI START IN JUNE		
		BOARD PAPERS EVALUATION DUTY		
JUNE	23	1.Computer system Overview	Basic Computer Organisation	What are the functin of memory? What are the Measuring Unit?
		2.Data Representation	Digital Number systems,Number Conversions	Conver the following into Binary,Octal,Hexadecimal and Unicode
		CT-1 (23 June to 28 June) Syllabus :1.Computer system Overview		
JULY	21	3.Boolean Logic	Logical Operations,Basic Logical Gates	Draw the basic logic gates with truth table
		PT_1 (5th July to 11th July) SYLLABUS: LESSON -1,2,3		
		5.Getting started with Python	Working in Python, Working in Default Pyhon Distribution	1.Python Pluses 2. Python-someminuses
AUGUST	19	6.Pyhton Fundamentals	Python Character Set Barebones of a Python Progam Variables and Assignments	Lab Work-How to install Python
		CT-2 (18 August to 23 August) Syllabus: Lesson No:5,6		
		7.Data Handaling	Data Types Mutable and Immutable types	Lab Work-Write Simple Program in Python
SEPTEMBER	16	Half Yearly Exam(13 Sept to 22 Sept), SYLLABUS: Lesson No-1,2,3,4,5,6,7		
		8.Flow of Control	Type of statements in Python	Lab Work- Program to display a menu for calcuating area of circle or Perimeter of a circle
OCTOBER	13	9.Srिंग Manipulation	Traversing a String	Lab Work- Program that reads a line and prints its statistics.
		DIWALI VACATION (17th Oct to 1 Nov)		
PT2 EXAM(8 NOV TO 13 NOV) Syllabus :9.Srिंग Manipulation				

NOVEMBER	18	10.List Manipulating	Creating and Accessing Lists List Operations	Lab Work- Program to calculate mean of a given list of Numbers
		CT-3 (22 Nov to 28 Nov) Syllabus:: Lesson No.: 10		
DECEMBER	16	11.Tuples	Creating and Accessing Tuples	Lab Work Program to create Tuples
		PT3 EXAM(5 DEC TO 12 DEC) Syllabus::Lesson No:9,10,11		
		12.Dictionaryes	Dictionary-Key:Value Pairs	Lab Work Write a Pogram to create a Dictionary containing names of competitionl winner student as a key and no. of their win as a value
JANUARY	15	13. Understanding Sorting	What is sorting,Bubble Sort ,Insertion Sort	Program to sort a sequence using insertion sort,Bubble Sort
		CT-4(Jan 19 to Jan 24) ,Lesson No: 12		
		14..Cyber Safety	What is Cyber Safety? Computer Forensics	Home work:1: What is Cyber Safety? 2.What should you do to protect your identity on internet?
		15.Onlin access and Compter Security	Threats to computer security Solution in Computer Security Threats.	1.What are the threats? 2.What is a Virus? What is anti-virus software?
		16. Society Law and Ethics	Ethical Issues,Diability issues while teaching and using computers.	1. What is online fraud? What are the intellectual property rights? 2.
FEBRUARY		Annual Exam (2 feb to 11 Feb) Full Syllabus		

Mahatma Gandhi Mission Primary & Secondary School

Phase – II, Sector – 8, Nerul, Navi Mumbai

YEAR PLAN 2025-2026

STD -XI		CHEMISTRY	Mrs.Manasvi Shigwan	
MONTH		UNITS	TOPIC	Activity
APRIL		RESULTS AWAITED		
JUNE	23	8.Some basic concepts in organic chemistry	Some basic concepts in organic chemistry ,Classification, IUPAC Nomenclature, Isomeric, Electromeric, Inductive effect,hyperconjugation, nucleophile, electrophile	Chemistry laboratory visit & Students presentation
CYCLE TEST-1				
		1.Some basic concepts in or chemistry	Law of chemical combination, multiple proportion, Gay Lussac's law, atomic mass, percentage composition Mole concept	Numericals on mole concept
UT-1 5/7/25 TO 11/7/25 Exam portion chpt:1,8				
JULY	21	2.Structure of atom	Farady's ,Bohr's model, cathode, anode rays, Sir J.J Thomsons model, Quantum no, electronic configuration, filling of electrons.	Volumetric analysis
AUG	19	3. Classification of elements and periodicity in properties	Dobereiner's ,Newland, Mendeleev's classification of elements. Modern periodic table.	Volumetric analysis.
CYCLE TEST -2				
		contd classification of elements	isoelectronic species, electronegativity, Anamolous behaviour, Diagonal relationship, learning of elements	Action research project
Half yearlyExam 13/9/25 To 22/9/25 Exam portion-1,2,3,8				
SEPT	16	4.Chemical Bonding and molecular structure	lewis-kossel approach,dot structures, octet rule, structure of different molecules,VBT, hybridisation, MOT.	Purification of Alum,Mohrs salt
OCT	13	9.Hydrocarbons	Classification, Homologous series, Alkanes,Alkenes, Alkynes,Benzene preparationphysical and chemical properties	Salt Analysis

		DIWALI MVACATION (17/10/25 TO 01/11/25)		
NOV	18	7.Redox reactions	Oxidation no, types of redox reactions, Balancing of Redox reaction.	Melting point expt.
			salt bridge and EMF of the cell	Boiling point expt
		CYCLE TEST -3		
DEC	16	5.Chemical thermodynamics	First law of thermodynamics, Internal energy, entalpy, entropy, bond dissociation , bond formation, Second and third law of thermodynamics	study of equilibrium constant
		UT-2 (5/12/25 TO 17/12/25) Exam portion-4,7,9		
		contd thermodynamics	types of system ,PV Type of work done in reversible expansion and irreversible expansion of gases.	
		CHRISTMAS VACATION		
JAN	25	6.Equilibrium	Equilibrium in physical and chemical processes, dynamic equilibrium, law of mass action, LeChatlier's principle, Common ion effect	Students presentations
		CT- 4		
FEB		Annual Exam (2/2/26 TO 11/2/26) Full portion		

Mahatma Gandhi Mission Primary & Secondary School

Phase – II, Sector – 8, Nerul, Navi Mumbai

YEAR PLAN 2025-2026

STD: -XI

SUB:-Biology

Teacher: -Dr. Charu Bhandari

MONTH	DAYS	LESSON	TOPIC	ACTIVITY	
JUNE	23	Chapter-1: The Living World	Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature	Write scientific name of five animal and five plants	
		Chapter-2: Biological Classification	Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.	Identify the spots and write the characteristics	
		Chapter-3: Plant Kingdom	Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiosperms.	Identify the spots and write the characteristics	
CT-1 (23 June to 28 June)					
JULY	21	Chapter-4: Animal Kingdom	Salient features and classification of animals, non-chordates up to phyla level and chordates upto class level	Identify the animal spots and write the characteristics	
		UT_1 (5th July to 11th July) SYLLABUS: Chapter 1,2,3			
		Chapter-5: Morphology of Flowering Plants	Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae	Study and describe locally available common flowering plants, from family Solanaceae	
		Chapter-6: Anatomy of Flowering Plants	Anatomy and functions of tissue systems in dicots and monocots.	Study of osmosis by potato osmometer. Study of distribution of stomata on the upper and lower surfaces of leaves	
		Chapter-7: Structural Organisation in Animals	Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.		

AUGUST	19	Chapter-8: Cell-The Unit of Life	Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.	
		Chapter-10: Cell Cycle and Cell Division	Cell cycle, mitosis, meiosis and their significance	Mitosis in onion root tip cells and animal's cells (grasshopper) from permanent slides.
		CT-2 (18 August to 23 August) Syllabus: Chapter 4,5		
SEPTEMBER	16	Chapter-9: Biomolecules	Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, and nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents Concept of Metabolism, Metabolic Basis of Living, The Living State)	Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.
		Half Yearly Exam(13 Sept to 22 Sept), SYLLABUS: Chapter 1,2,3,4,5,6,7		
OCTOBER	13	Chapter-11: Photosynthesis in Higher Plants	Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.	Separation of plant pigments through paper chromatography.
		Chapter-12: Respiration in Plants	Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.	

		DIWALI VACATION (17th Oct to 1 Nov)		
NOVEMBER	18	Chapter-13: Plant - Growth and Development	Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes 5 in a plant cell; plant growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA	
		Chapter-14: Breathing and Exchange of Gases	Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.	Comparative study of the rates of transpiration in the upper and lower surfaces of leaves
		Chapter-15: Body Fluids and Circulation	Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.	
CT-3 (22 Nov to 28 Nov) Syllabus: Chapter 12				
DECEMBER	16	UT2 EXAM(5 DEC TO 12 DEC) Syllabus Chapter 9,10,11,12		
		Chapter-16: Excretory Products and their Elimination	Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.	Test for presence of urea in urine. Test for presence of sugar in urine. Test for presence of albumin in urine. Test for presence of bile salts in urine.

JANUARY	25	Chapter-17: Locomotion and Movement	Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.	Human skeleton and different types of joints with the help of virtual images/models only.
		Chapter-18: Neural Control and Coordination	Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse	
		Chapter- 19: Chemical Coordination and Integration	Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease	Make a mind map of all the endocrine glands and their hormones and functions
		CT-4(Jan 19 to Jan 24) Syllabus Chapter 13 ,14		
	Revision			
FEBRUARY		Annual Exam (2 feb to 11 Feb) Syllabus Full Portion		