Airport School - Ahmedabad

SYLLABUS 2025-26

CLASS – XI SCI

SUBJECT: ENGLISH

MONTH	LITERATURE READER	SUPPLEMENTARY READER	WRITING SKILLS	GRAMMAR
APRIL & MAY				
JUNE	L-1 PORTRAIT OF A LADY POEM -1 PHOTOGRAPH	L-1 THE SUMMER OF BEAUTIFUL WHITE HORSE	CLASSIFIED ADVERTISEMENTS	
JULY	L-2, WE ARE NOT AFRAID TO DIE…..IF WE CAN BE TOGETHER	L-2 THE ADDRESS	CLASSIFIED ADVERTISEMENTS, NOTE MAKING	TENSES
	PT-1 SYLLABUS L-1 PORTRAIT OF A LADY POEM -1 PHOTOGRAPH CLASSIFIED ADVERTISEMENTS JUMBLED WORDS			
AUGUST	L-3, DISCOVERING TUT :THE SAGA CONTINUES		SPEECH	CLAUSES, REORDERING THE SENTENCE
		L- 3 MOTHER'S DAY	DEBATE	ASL
	HALF-YEARLY SYLLABUS COMPREHENSION PASSAGE NOTE MAKING L-1 PORTRAIT OF A LADY L-2 WE ARE NOT AFRAID ... L-3 DISCOVERING TUT :THE SAGA CONTINUES POEM -1 PHOTOGRAPH POEM-2 LABURNUM TOP L-1 THE SUMMER OF BEAUTIFUL WHITE HORSE L-2 THE ADDRESS **WRITING SKILLS**: CLASSIFIED ADVERTISEMENTS SPEECH GRAMMAR:CLAUSES andREORDERING THE SENTENCE			
SEPTEMBER	L-4 THE ADVENTURE	L- 3 MOTHER'S DAY CONTD....	POSTER MAKING	REORDERING THE SENTENCE EXERCISE
	POEM 3 - VOICE OF THE RAIN			
	L- 5- THE SILK ROAD	L-6 BIRTH		
	POEM 4 CHILDHOOD		ROLE PLAY	
OCTOBER	POEM 5 FATHER TO SON	POEM-THE TALE OF MELON CITY		
NOVEMBER	PT-2 SYLLABUS POEM - VOICE OF THE RAIN L-5 THE SILK ROAD GR. REORDERING THE SENTENCE WRITING-POSTER MAKING			
DECEMBER	REVISION			

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CLASS – XI SCI

SUBJECT: PHYSICS

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
APRIL AND MAY		
JUNE	Chapter - 1 Units and measurements	To measure diameter of a small spherical/cylindrical body.
	Chapter -2 Motion in a straight line	To measure internal diameter and depth of a given beaker/calorimeter and hence find its volume.
JULY	Chapter - 3 Motion in a Plane	To measure diameter of a given wire using micrometre screw gauge
	Chapter - 4 Laws of Motion	To measure volume of an irregular lamina using micrometre screw gauge
AUGUST	Chapter - 5 Work, Energy and Power	To determine radius of curvature of a given spherical surface by a spherometer.
	Chapter - 6 System of Particles and Rotational Motion	Using a simple pendulum, plot L-T and L-T2 graphs. Hence find the effective length of a second's pendulum using appropriate graph.
	Syllabus for HY:	
SEPTEMBER	Chapter - 7 Gravitation	To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface.
	Chapter 8 Mechanical Properties of Solids	
OCTOBER	Chapter 9 Mechanical Properties of Fluids	Determine Young's modulus of elasticity of the material of a given wire.
	Chapter 10 Thermal properties of matter	To find the force constant and effective mass of a helical spring by plotting T2 -m graph using method of oscillations.
NOVEMBER	Chapter 11 Thermodynamics	To determine the coefficient of viscosity of a given viscous liquid by measuring the terminal velocity of a given spherical body.
	Chapter 12 Kinetic Theory	To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
DECEMBER	Chapter 13 Oscillations	To study the relation between the length of a given wire and tension for constant frequency using sonometer.
	Chapter 14 Waves	To find the speed of sound in air at room temperature using a resonance tube by resonance positions.

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CLASS – XI SCI

SUBJECT: CHEMISTRY

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
APRIL AND MAY		
JUNE	Chapter 1: Some basic concepts of chemistry	To prepare M/10 Std Na2CO3 solution
JULY	Chapter 7: Redox reaction	Titration apparatus introduction and practice
		Titration of NaOH Vs Oxalic acid
	Chapter 2: Structure of atom.	Titration of HCl Vs M/20 Na2CO3 solution
AUGUST	Chapter 3: Periodic classification of elements	
	Chapter 4: Chemical bonding	Inorganic salt analysis
SEPTEMBER	Syllabus for HY:	
	Revision	Inorganic salt analysis
OCTOBER	Chapter 8: Organic chemistry: Some basic principles and techniques.	
	Chapter 8 continued	Inorganic salt analysis
NOVEMBER	Chapter 9 Hydrocarbons	Inorganic salt analysis
DECEMBER	Chapter 5: Thermodynamics	Inorganic salt analysis
JANUARY	Chapter 6: Equilibrium	Inorganic salt analysis
FEBRUARY	Chapter 6 (Contd…)	

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CLASS – XI SCI

SUBJECT: BIOLOGY

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
APRIL & MAY		
JUNE	Chapter 1: The living world	Exp: Distribution of stomata
	Chapter 2: Biological Classification	Exp: Study of microscope
		Exp: Study of flowering plant(any one family)
JULY	Chapter 3: Plant Kingdom	Exp: Study of plasmolysis
	Chapter 5: Morphology of Flowering Plants	Exp: Specimen observation (plants)
	Chapter 4: Animal Kingdom	Exp: Specimen observation (animals)
AUGUST	Chapter 6: Anatomy of flowering plants	Exp: T. S. of dicot and monocot stem and root
	Chapter 7: Structural organisation in animals	Exp: Study of osmosis by potato osmometer
	Chapter 8: Cell: The unit of life	
	Chapter 9: Biomolecules	
SEPTEMBER	**Half Yearly Syllabus chapters 1 to 8**	
OCTOBER	Chapter 10: Cell Cycle and Division	Exp: Study of mitosis through permanent slide
	Chapter 11: Photosynthesis in plants	Exp: Paper chromatography
	Chapter 14: Breathing and exchange of gases	
NOVEMBER	Chapter 12: Respiration in Plants	Exp: To test for the presence of carbo, proteins and fats in food
	Chapter 13: Plant Growth and Development	Exp: Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.
	Chapter 15: Body fluids and Circulation	Exp: Analysis of urine
DECEMBER	Chapter 16: Excretory Products and their elimination	
	Chapter 17: Locomotion and movement	Exp: Human Skeleton observation
JANUARY	Chapter 18: Neural control and coordination	
	Chapter 19: Chemical coordination and integration	

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CLASS – XI SCI

SUBJECT: MATHEMATICS

MONTH	LESSONS/CHAPTERS	ACTIVITIES
APRIL & MAY		
JUNE	Ch1 Sets Ch2 Relations and Functions Ch3 Trigonometric Functions (Intro)	(1) To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2n. (2) To verify that for two sets A and B, n (A×B) = pq and the total number of relations from A to B is 2pq, where n(A) = p and n(B) = q. (3) To distinguish between a Relation and a Function. (4) To represent set theoretic operations using Venn diagrams.
JULY	Ch3 Trigonometric Functions (Contd...) Ch4 Complex Numbers and Quadratic Equations	(5) To plot the graphs of sin x, sin 2x, 2sinx and sin x/2, using the same coordinate axes.
AUGUST	Ch4 Complex Numbers and Quadratic Equations (Contd...) Ch5 Linear Inequalities Ch6 Permutations and Combinations Ch7 Binomial Theorem	(6) To interpret geometrically the meaning of i = square root of (−1) and its integral powers.
SEPTEMBER		(7) To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.
	Syllabus for HY Exam: Ch1 to Ch6	
OCTOBER	Ch8 Sequences and Series Ch9 Straight Lines	(8) An alternative method of constructing a parabola.
NOVEMBER	Ch10 Conic Sections Ch11 Introduction to Three-Dimensional Geometry Ch13 Statistics	
DECEMBER	Ch13 Statistics (Contd...) Ch14 Probability	(9) To write the sample space, when a coin is tossed once, two times, three times, four times.
JANUARY	Ch12 Limits and Derivatives	(10) To find analytically limit of a given function at a given point.

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CLASS – XI SCI

SUBJECT: COMPUTER SCIENCE

MONTH	LESSONS/CHAPTERS	ACTIVITIES/PRACTICALS
APRIL& MAY		
JUNE	Introduction to software, types of software, Program, Instructions "Introduction to python, Tokens, Identifiers, Operators"	"Basic Prog of python (""Hello World!!) Program to work withDifferent types of operators, Identifiers, keywords and Escape Sequences"
JULY	Keywords, Escape Sequences, Nested if() and its components. Introduction to Loop. Advance conditional statements logic and prog.	Conditional statement programs.
	PT-1 Syllabus: **1. Python Fundamentals** **2. IF Condition, Loops**	
AUGUST	Working with for loop. For () in operator with for() range() with for() Reverse for() loop Introduction to List Working with List: List functions.	Basic Loop Programs.
SEPTEMBER	**Revision HY Exam :** **Hy Syllabus:** **1. Computer Fundamentals, Python Fundamentals** **2. If Condition , Loops ,List and its functions**	
OCTOBER	While loop, while Vs. for Importance of while loop Working with while loop	Logical program using conditional statements and for loop.
NOVEMBER	Introduction to Tuple,Dictionary,set List Vs Tuples Working with Tuples, Dictionaries Introduction to Boolean Algebra Boolean operators and variables	Logical prog using conditional statement with for loop and nested loops.
DECEMBER	"Truth Tables Working with Boolean laws (11) Logical gates." NAND, NOR, XOR, XNOR gates,	List Programs, Python logical list programs using list, loops and tuples.
JANUARY	Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules. Safely accessing web sites: adware, malware, viruses, Trojans Safely communicating data: secure connections, eavesdropping, phishing and identity verification.	List Logical Programs, Searching,Bubble sort,Tuples, Dictionaries Programs.
FEBRUARY	**Revision for AE Exam:** **AE Syllabus:** **Full Course.**	