## NEW ERA SENIOR SECONDARY SCHOOL, NIZAMPURA , VADODARA. MATHS SYLLABUS CLASS-XI 2025-26

MONTH	No. OF DAYS	CHAPTER
APRIL	22	# Sets (1)  * Sets & their representation  * Empty Set, Infinite & finite set, Power set, Universal set  * Venn Diagram  * Union & Intersection sets     Difference of sets, Complement of set  # Relations & Functions (2)  * Cartesian Product of sets  * Definition of Relation, Domain Co- domain, Range  * Function, Real valued function of real variable  * Types of function & Symp Difference we obtain the form
MAY	03	* Types of function & Sum, Diff., Product & Quotient of fn  # Relations & Functions (contd.) (2)
JUNE	18	# Trigonometric Functions(3)  * Positive & Negative Angles.  * Measuring angles in radians and in degrees & conversion  * Signs of trigo functions, Basic identities  * Expression of trigo fn in the form X±Y, 2X, 3X,  * Deduction of identities of sinx ± siny & for other functions
JULY	26	# Trigonometric Function continue  # Complex numbers & Quadratic equation(4)  * Need for complex numbers,  * Operation on complex numbers  * Argand plane and polar representation of complex numbers  * Solution of quadratic equations in complex number system  # Linear Inequalities (5)  * Linear Inequalities & its Algebraic solution in one variable  * Graphical solution of L.E. in two variables
AUGUST	22	# Linear Inequalities continue  # Permutations & Combinations (6)  * Fundamental principle of counting  * Factorial n  * Permutations and combination  * Derivation of formulae and their connections  * Simple applications  # Binomial Theorem (7)  * Statement & proof of the binomial theorem  * Pascal's triangle  * General & middle term in binomial exp. & its application
SEPTEMBER	23	# Binomial Theorem continue  # Sequence & Series (8)  * Introduction to Sequence & Series  * Arithmetic Progression, Geometric Progression,

	* Deletion between A.M. & C.M.
	* Relation between A.M. & G.M.
	* Sum of n terms of special series
	# Straight lines (9)  * Slope of a line & angle between two lines  * Various forms of lines:  - Parallel to axes - Slope – intercept form  - Point-slope form - Slope – intercept form - Normal form  - Two point form  * General equation of line & distance of point from line
11	# Straight Lines Continue
11	# Conic Section (10)  * Circle: General equation of circle, equation of circle when radius & centre of circle is given, Intersection of circle with line & co-ordinate axes, simple application  * Parabola: Introduction, definition, symmetry, Equation of parabola, Latus Rectum.  * Ellipse: Definition, Eccentricity, Relation between const a, b, c. Standard equation of ellipse, latus Rectum  * Hyperbola: Definition, Eccentricity, Standard equation, latus Rectum.
21	# Conic Section Continue
	# Three Dimensional Geometry (11)  * Coordinate axes & coordinate planes in three dimensions,
23	# Limits & Derivatives (12)  * Introduction to limit & limits of function  * Definition of derivative  * Derivative by first principle  * Derivative of sum, difference, product & quotient  * Derivative of polynomial and trigonometric functions  # Statistics (13)  * Measure of dispersion : Mean deviation, variance, and standard deviation  * Analysis of frequency distributions with equal means but different variances.
25	# Statistics Continue  # Probability (14)  * Random experiments, outcomes, sample space, event  * Axiomatic approach of probability  * Probability of 'not' & 'or' events

FEBRUARY	22	# Probability continue
MARCH		# Annual Exam