N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI-110026, ANNUAL CURRICULUM, 2025-26

Class-XI	Subject-(041) Mathematics	Subject Teacher(Prepared by): VC		Designation : PGT		
Preferred Text Book /Material	**Chapter's Name**	**Chapter Topic/Sub Topic**	**Term**	**Start Date**	**End Date**	**No. of Pds.**
Mathematics	Sets	Sets and their representations, Empty set, Finite and infinite sets ,Equal sets,	I	01-07-2025	05-07-2025	7
Textbook for		Subsets, Subsets of a set of real numbers especially intervals (with notations)				
Class XI		Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets				
Published by		Complement of a set. Properties of Complement.				
NCERT						
	Relation and	Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product	I	07-07-2025	11-07-2025	*7*
Mathematics	*Functions*	of two finite sets. Cartesian product of the set of reals with itself (upto R x R x R).				
Exempler		Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.				
Problem		Function as a special type of relation. Pictorial representation of a function, domain,				
for Class XI		co-domain and range of a function. Real valued functions, domain and range of these				
Published by		functions, constant, identity, polynomial, rational, modulus, signum, exponential,				
NCERT		logarithmic and greatest integer functions, with their graphs. Sum, difference,				
		product and quotients of functions.				
Mathematics						
Lab Mannual	*Trigonometric*	Positive and negative angles. Measuring angles in radians and in degrees and	I	14-07-2025	19-07-2025	8
for Class XI	*Functions*	conversionfrom one measure to another. Definition of trigonometric functions				
Published by		with the help of unit circle .Truth of the identity sin2x + cos2x = 1, for all x.				
NCERT		Signs of trigonometric functions				
		Domain and range of trigonometric functions and their graphs. Expressing	I	21-07-2025	25-07-2025	7
		sin (x±y) and cos (x±y) in terms of sinx, siny, cosx & cosy and their simple applications.				
		Deducing identities Identities related to sin2x, cos2x, tan2 x, sin3x, cos3x and tan3x				
	Complex Nos	Inroduction,Need for complex numbers, especially √−1, to be motivated by	I	28-07-2025	02-08-2025	8
	& Quadratic	inability to solvesome of the quadratic equations. Algebraic properties of				

		Equations	complex numbers. Argand plane				
		Revision	Revision for First PeriodicTest	I	04-08-2025	08-08-2025	7
		Liinear Inequality	Linear inequalities. Algebraic solutions of linear inequalities in one variable and	I	11-08-2025	14-08-2025	5
			their representation on the number line.				
		Sequence	Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P	I	18-08-2025	22-08-2025	7
		&Series					
			sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.),	I	25-08-2025	29-08-2025	7
			relation between A.M. and G.M				
		Statistics	Measures of Dispersion: Range, Mean deviation, variance and standard deviation of	I	01-09-2025	06-09-2025	7
			ungrouped/grouped data.				
		Practicals & Revision	Practical Examination & Revision for Half yearly Examination 2025-26	I	08-09-2025	11-09-2025	5
		Half yearly Exam	Half yearly Examination 2025-2026	I	15-09-2025	26-09-2025	HY
		Permutations	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations,	II	29-09-2025	09-10-2025	8
		& Combinations	derivation of Formulae for nPr and nCr and their connections, simple applications.				
		Binomial	Historical perspective, statement and proof of the binomial theorem for positive	II	13-10-2025	17-10-2025	7
		Expansion	integral indices.Pascal's triangle, simple applications.				
		Straight lines	Brief recall of two dimensional geometry from earlier classes. Slope of a line and	II	24-10-2025	31-10-2025	7
			angle between two lines.				
			Various forms of equations of a line: parallel to axis, point -slope form, slope-	II	01-11-2025	07-11-2025	4
			intercept form, two-point form, intercept form, Distance of a point from a line				

		Revision	Revision for Second PeriodicTest & Miscellaneous Questions	II	10-11-2025	15-11-2025	8
		Conic Section	Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and	II	17-11-2025	21-11-2025	7
			a pair of intersecting lines as a degenerated case of a conic section.				
			Standard equations and simple properties of parabola, ellipse and hyperbola.	II	24-11-2025	28-11-2025	7
			Standard equation of a circle.Miscellaneous Examples				
		Introduction	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point.	II	01-12-2025	06-12-2025	8
		to 3-D Geometry	Distance between two points.				
		Limit & Derivative	Derivative introduced as rate of change both as that of distance function and	II	08-12-2025	12-12-2025	7
			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,	II	15-12-2025	20-12-2025	7
			difference, product and quotient of functions.				
			Derivatives of polynomial and trigonometric functions.Miscellaneous Questions	II	22-12-2025	31-12-2025	9
		Probability	Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive	II	16-01-2026	23-01-2026	8
			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				
		Practicals & Revision	Practical Examination & Revision for Annual Examination 2025-26	II	27-01-2026	30-01-2026	5
		Revision	Chapterwise Revision for Annual Examination 2025-26	II	02-02-2026	13-02-2026	15
		Annual Exam	Annual Examination 2025-26	II	23-02-2026	07-03-2026	AE
		Prepared by:	VC:Sign.				
		Sub. Co-ordinator:	KKJ:Sign.				

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Marking Scheme for First Periodic Examination 2025-26
Class-XI   Sub:-Mathematics (041)   Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Sets	11
2	Relation & Functions	9
	Total	20

Marking Scheme for Half Yearly Examination 2025-26
Class-XI   Sub:-Mathematics (041)   Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Sets	12
2	Relation & Functions	9
3	Trigonometric Functions	16
4	Complex Nos & Quadratic Equatons	8
5	Linear Inequlity	10
6	Sequence&Series	15
7	Statictics	10
	Total	**80**

Marking Scheme for Second Periodic Examination 2025-26
Class-XI   Sub:-Mathematics (041)   Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Permutation & Combination	13
2	Binomial Theorem	07
	Total	20

Marking Scheme for Third Periodic Examination 2025-26
Class-XI   Sub:-Mathematics (041)   Time:-45 minutes

Sl.No.	Chapter/ Topic	Max.Marks
1	Straight lines	20

Marking Scheme for Annual Examination 2025-26
Class-XI   Sub:-Mathematics (041)   Time:-45 minutes

S.No.	Chapter/ Topic	Max.Marks
1	Set	4
2	Relation and functions	4
3	Trigonometric functions	9
4	Complex Nos & Quadratic Equatons	4
5	Linear Inequlity	6
6	Permutation & Combination	5
7	Binomial Theorem	4
8	Sequence&Series	4
9	Straight lines	8
10	Conic Section	9
11	Introduction of 3D	4
12	Limit & Derivative	9
13	Statictics	4
14	Probability	6
	Total	80

Co-ordinator Name-KKJ   Sign.

Subject Teacher Name: VC   Sign.

Subject Teacher Name: KKJ   Sign.

N. C. JINDAL PUBLIC SCHOOL, PUNJABI BAGH, NEW DELHI-110026
CLASS: -XI (2025-2026)
MATHEMATICS (041)
Internal Assessment Max. Marks: 20
Evaluation Criteria

The weightage is as under

Periodic Test(Best 2 out of 3 test conducted)	10 Marks
The activity performed by the student throughout the year and record keeping:	5 Marks
Assessment of the activity performed during the year end test:	3 Marks
Viva-Voce:	2 Marks

Note: For activities NCERT Lab Manual may be referred.

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