N. C. JINDAL PUBLIC SCHOOL,PUNJABI BAGH, NEW DELHI-110026, ANNUAL CURRICULUM, 2024-25						
Class-XI	**Subject-(041) Mathematics**	**Subject Teacher(Prepared by): SKS**				
Preferred Text Book /Material	**Chapter's Name**	**Chapter Topic/Sub Topic**	**Term**	**StartDate**	**End Date**	**No of Pds**
Mathematics	Sets	Sets and their representations, Empty set, Finite and infinite sets ,Equal sets,	I	7/1/2024	7/6/2024	6
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	7/8/2024	7/12/2024	*5*
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	7/15/2024	7/20/2024	5
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	7/22/2024	7/26/2024	5
		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	7/29/2024	8/3/2024	6
	& Quadratic	inability to solvesome of the quadratic equations. Algebraic properties of				
	Equations	complex numbers. Argand plane				

	Liinear Inequality	Linear inequalities. Algebraic solutions of linear inequalities in one variable and	I	8/5/2024	8/9/2024	5
	Revision	their representation on the number line,Revision for First PeriodicTest				
	Sequence	Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P	I	8/12/2024	8/17/2024	6
	&Series					
		sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.),	I	8/20/2024	8/23/2024	4
		relation between A.M. and G.M				
	Statistics	Measures of Dispersion: Range, Mean deviation, variance and standard deviation of	I	8/27/2024	8/30/2024	4
		ungrouped/grouped data.				
	Practicals & Revision	Practical Examination & Revision for Half yearly Examination 2024-25	I	9/2/2024	9/6/2024	5
	Revision	Revision	I	9/9/2024	9/11/2024	3
	Half yearly Exam	Half yearly Examination 2024-2025	I	9/13/2024	9/27/2024	HY
	Permutations	Fundamental principle of counting. Factorial n. (n!) Permutations and combinations,	II	9/30/2024	10/5/2024	6
	& 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	10/7/2024	10/19/2024	13
	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	10/21/2024	10/25/2024	5
		angle between two lines.				
		Various forms of equations of a line: parallel to axis, point -slope form, slope-	II	11/4/2024	11/8/2024	5
		intercept form, two-point form, intercept form, Distance of a point from a line				
	Revision	Revision for Second PeriodicTest & Miscellaneous Questions	II	11/11/2024	11/16/2024	5
	Conic Section	Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and	II	11/18/2024	11/22/2024	5
		a pair of intersecting lines as a degenerated case of a conic section.				

		Standard equations and simple properties of parabola, ellipse and hyperbola.	II	11/25/2024	11/30/2024	6
		Standard equation of a circle.Miscellaneous Examples				
	Introduction	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point.	II	12/2/2024	12/7/2024	6
	to 3-D Geometry	Distance between two points.				
	Limit & Derivative	Derivative introduced as rate of change both as that of distance function and	II	12/9/2024	12/12/2024	4
		geometrically.Intuitive idea of limit. Limits of polynomials and rational				
		functions trigonometric, exponential and logarithmic functions.				
		Definition of derivative relate it to scope of tangent of the curve, derivative of sum,	II	12/16/2024	12/21/2024	6
		difference, product and quotient of functions.				
		Derivatives of polynomial and trigonometric functions.Miscellaneous Questions	II	12/23/2024	12/31/2024	
	Probability	Events; occurrence of events, ‘not’, ‘and’ and ‘or’ events, exhaustive	II	1/16/2025	1/24/2025	
		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 2024-25	II	1/27/2025	1/31/2025	5
	Revision	Chapterwise Revision for Annual Examination 2024-25	II	2/3/2025	2/15/2025	
	Annual Exam	Annual Examination 2024-25	II	2/17/2025	2/27/2025	AE
	Prepared by:	SKS:Sig				
	Sub. Co-ordinator:	KKJ:Sign.				

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Marking Scheme for First Periodic Examination 2024-25

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 2024-25

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 2024-25

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 2024-25

Class-XI Sub:-Mathematics (041) Time:-45 minutes

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

Marking Scheme for Annual Examination 2024-25

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: SKS Sign.

Subject Teacher Name: KKJ Sign.

N.C. JINDAL PUBLIC SCHOOL
CLASS: -XI (2024-2025)
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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