A	B	C	D	E	F	G
		N.C.JINDAL PUBLIC SCHOOL,PUNJABI BAGH,NEW- DELHI-110026				
		ANNUAL CURRICULAM (2026-27)				
BOOK	CLASS-11	SUBJECT-APPLIED MATHEMATICS -(241)		KAVITA PALIWAL		No.
APPLIED	Chapters	Chapter Topic/Sub Topic	Term	Start Date	End Date	of pds
MATHS	Binary Numbers	• Express decimal numbers in binary system • Express binary numbers in decimal system	1	16-04-2026	18/04/2026	4
CLASS -XI		and its applications		20/04/2026	24/04/2026	7
-241	Sets	•Define set as well-defined collection of objects• Represent a set in Roster form and set builder form				
CBSE		•Identify different types of sets on the basis of number of elements in the set,Differentiate between equal setsand equivalent sets	I	27/04/2026	02/05/2026	7
PDF		,subsets + Activity (1) ,subsets as intervals,power set elements,venn-diagram				
		problem solving using venn diagram,operations on sets to solve practical problems+Activity(2)	1	04/05/2026	08/05/2026	7
	Relations	specific arrangement of elements in a pair, Cartesian product of two sets, the number of				
		elements in a Cartesian product of two sets, relation as a subset of Cartesian product,	I	11/05/2026	18/05/2026	9
		find domain and range of a relation+Activity(3)				
	Functions	function using dependent and independent variable, domain, range and co-domain of a given function	1	01/07/2026	04/07/2026	5
		various types of function, representation of functions graphically+Activity(4)	1	6-7-2026	10/07/2026	7
	Indices	• Indices and its properties ,• Common and Natural logarithm				
	,logarithm and	• Laws of logarithms • Logarithm and exponential as inverse operations	I	13-7-2026	18/07/2026	8
	antilogarithm	• Procedure of finding logarithm and antilogarithms of given number • Applications of logarithms				
	Quantitative					
	Aptitude	• Evaluate the angular value of a minute • Calculate the angle formed between two hands of clock	I	20-7-2026	24/07/2026	7
	Clock	at given time • Calculate the time for which hands of clock meet				
	Calender	• Determine Odd days in a month/ year/ century • Decode the day for the given date				
	Time,Work and	• Relationship between work and time • Compare the work done by the individual / group	1			
	distance	w.r.t. time • Calculate the time taken/ distance covered from the given data		27-7-26	01/08/2026	8
	Seating	Create suitable seating plan/ draft as per given conditions (Linear/circular)				
	arrangement	Locate the position of a person in a seating arrangement				
	Sequence and	• Differentiate between sequence and series	1			
	Series	Find arithmetic mean (AM) of two positive numbers, Geometric PROGRESSION,, nth term and sum of n terms of given G.P		3-8-26	07/08/2026	7
		Applications of G.P,Geometric Mean of two positive integers,Problems based on relation between	1	10-8-26	14/08/2026	7
		AM and GM, Apply appropriate formulas of AP and GP to solve application+ Activity(5)				
	logical reasoning	Solve logical problems involving odd man out, syllogism, blood relation and coding decoding				
	Descriptive	dispersion in a data set , range, , mean deviation and standard deviation	I	17/08/2026	21/08/2026	7
	Statistics	Define Percentile rank ,Percentile rank of scores in a given ungroupe data,Karl Pearson's				
		correlationand Spearman's rank correlation for ungrouped data ,concept of regression analysis				
		dependent and independent variables,regression coefficient,regression equations,properties	I	24/08/2026	31/08/2026	7
		of regression coefficients				
	Revision		I	01/09/2026	05/09/2026	5
	Practicals		I	07/09/2026	11/09/2026	7
	Half Yearly Examination.			**14/09/2026**	**28/09/2026**	
	Factorial	Factorial of a number,Fundamental principle of counting,	II	29/09/2026	03/10/2026	4
	Permutations	concept of permutation to solve simple problems , Define Combinations,	II	05/10/2026	09/10/2026	7
	Combinations	Differentiate between permutation and combination, formula of combination to solve problems				
	Calculus: Limits	limit of a function , problems based on the algebra of limits, continuity of a function,	II	12/10/2026	17/10/2026	8
	continuity	instantaneous rate of change, derivative of the functions,	II	21/10/2026	31/10/2026	9
	Differentiation	derivative of function of a function	II			
	Probability	Random experiment and sample space with suitable example,different type of event and their	II	02/11/2026	07/11/2026	8
		probability,probability in real life situation ,concept of conditional probability	II	12/11/2026	21/11/2026	10
		,Apply reasoning skill to solve problems on conditional probability				
		+ miscellaneous examples	II	23/11/2026	30/11/2026	7
	Financial	concept of Interest Rates ,Compare the difference between Nominal Interest Rate, Effective Rate				
	Mathematics	and real interest rate, Solve Practical applications of interest rate ,Simple Interest and Compound Interest	II	01/12/2026	05/12/2026	7
		, concept of effective rate of interest, meaning of immediate Annuity,				
		, Annuity due and Deferred Annuity •calculate future and present value of ordinary annuity, annuity	II	07/12/2026	11/12/2026	7
		due(up to 3 periods) •Apply the concept of Annuity in real life	II	14/12/2026	19/12/2026	9
		Concept of income tax and GST w.r.t new tax guidelines , Goods and Services Tax (SGST)				
		Central Goods and Services Tax (CGST) and Union territory goods and service tax(UTGST),	II	21/12/2026	24/12/2026	6
		calculation of electricity bill,water bill ,PNG bills	II	28/12/2026	31/12/2026	6
	Coordinate	Concept of slope of line and equation of line in various forms	II	16/01/2027	22/01/2027	9
	Geometry	• Determination of the equations of circle and parabola as a locus of a point in a plane under	II	25/01/2027	30/01/2027	6
		certain condition, different form of equations of a circle , problems based on applications of circle	II	01/02/2027	06/02/2027	9
	Revision for Annual	Chapterwise Revision for Annual Examination	II	08/02/2026	12/02/2026	7
	Examination					
		Practicals/projects assessment	II	15/02/2026	20/02/2026	7
	AnnualExam		II	22/02/2027	05/03/2027	
	Prepared by:	KP				
	Sub. Coordinator	K.K.JHA				

Syllabus Planning for First Periodic Examination 2026-27

Class-XI Sub:- Applied-Mathematics(241)

Time:-45 minutes Marking Scheme

I.No.	Chapter/ Topic	Max.Marks
1	*Binary numbers*	*5*
2	*Sets and relations*	*15*
	Total	***20***

Syllabus Planning for Half Yearly Examination 2026-27

lass-XI Sub:- Applied-Mathematics (241)

Time:-3 hours Marking Scheme

I.No.	Chapter/ Topic	Max.Marks
1	*Sets and Relations*	12
2	*Binary numbers*	4
3	*Indices and Logrithms*	12
4	*Functions*	6
5	*Sequence and Series*	13
6	*Mathematical reasoning*	6
7	*Numerical Applications*	12
8	*Statistics*	15
	Total	**80**

Syllabus Planning for Second Periodic Examination 2026-27

Class-XI Sub:-Applied-Mathematics(241)

Time:-45minutes Marking Scheme

I.No.	Chapter/ Topic	Max.Marks
1	*limits and continuity*	*7*
2	*Permutation & Combination*	*13*
	Total	***20***

lass-XI Sub:-Applied Mathematics(241)

Time:-3 hours Marking Scheme

I.No.	Chapter/ Topic	Max.Marks
1	Numbers, Quantification and Numerical Applicat	10
2	Algebra	18
3	*Calculus*	12
4	Combinatorics and Probability	10
5	Descriptive Statistics	10
6	*Basics of Financial Mathematics*	15
7	*Coordinate Geometry*	5
	Total	**80**

Co-ordinator Name-KKJ

Subject Teacher Name: KP

N. C. JINDAL PUBLIC SCHOOL, PUNJABI BAGH, NEW DELHI-110026
Evaluation Criteria (2026-2027)
Internal Assessment: Max. Marks: 20
CLASS: XI , APPLIED MATHEMATICS (241)

Weightage for each area of internal assessment may be as under:

Sl. No.	Area and Weightage	Assessment Area	**Marks allocated**
1	Project work (10 marks)	Project work and record	**5**
		Year-end Presentation/ Viva of the Project	**5**
2	Practical work (10 marks)	Performance of practical and record	**5**
		Year-end test of any one practical	**5**
Total			**20**

Assessment Plan

1. Overall Assessment of the course is out of 100 marks.
2. The assessment plan consists of an External Exam and Internal Assessment.
3. External Exam will be of 03 hours duration Pen/ Paper Test consisting of 80 marks.
4. The weightage of the Internal Assessment is 20 marks. Internal Assessment can be a combination of activities spread throughout the semester/ academic year. Internal Assessment activities include projects and excel based practical. Teachers can choose activities from the suggested list of practical or they can plan activities of a similar nature. For data-based practical, teachers are encouraged to use data from local sources to make it more relevant for students.